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CenTran Programming Reference Manual

dormakaba

dormakaba Welcome

dormakaba is the world's leading manufacturer and supplier of high security, electronic safe locks. Its complete line of self powered, battery, and mechanical locks meets virtually every safe lock requirement. dormakaba is dedicated to satisfying end-user needs for security, safety, and convenience. We welcome you to the world of dormakaba security and Cencon®.

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Manual Conventions

CenTran Programming Reference Manual

The CenTran Reference Manual is a comprehensive guide that contains information on the procedures you need to work with Cencon locks. This manual provides detailed information on CenTran features and step-by-step procedures for using the software. Some conventions that are followed are:

- The Smart Keys needed for a particular operation will be shown beside the flowcharts that describe the operation.
- The screens shown in the manual that speak to inserting a key in a reader may depict either the use of the 4-port Key Reader in association with the PCI card or the 2-port USB Key Box.
- Input to the PC will be shown in **bold type**.
- The screen samples may not look exactly as they do on your system depending on which version of the Windows operating system you are using. Some samples in this document are from Windows XP and some are from Windows Vista.
- Highlighted items:

Note

Indicates a point to consider.

Helpful Hint

Indicates a technique or method that works well.

Caution

Indicates the need for care and caution to be observed during a procedure or process.

Warning

Indicates the possibility of loss of data or system integrity.

Before reading the CenTran Reference Manual, you should be familiar with basic Windows concepts and techniques. For detailed information, refer to your Windows documentation.

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CenTran Programming Reference Manual

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- CenTran
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1.1 Introduction - Cencon ATM Cash Vault Security System Product Overview

CenTran Programming Reference Manual

The Challenge

While the front of ATMs are accessed by customers with individual cards and PINs, the back of the ATM is often accessed by service personnel from multiple companies all using the same lock combination. Bank employees, cash replenishers, technical service reps, repair personnel all using the same combination to open an ATM safe poses a significant security risk.

The Solution

The Cencon ATM Cash Vault Security System from Kaba Mas is designed to combat insider theft from ATMs through the combined use of lock hardware, systems software and Smart Keys. The Cencon system offers total access control and accountability with its One Time Combination feature. The One Time Combination is dispatched from a central location and cannot be reused at a later date, thus eliminating temptation.

The Cencon ATM Cash Vault Security System allows locks located anywhere in the world to be controlled and monitored from one central location.

The central location consists of

- A database describing locks, lock administration personnel, lock service personnel, lock access details and history.
- Kaba Mas software that
 - Manages the creation and distribution of One Time Combinations(OTC).
 - Tracks the status of each lock and user.
 - Provides audit capability.
 - Can be used interactively by a human Dispatcher or programmatically by customer applications such as IVR or Web base interfaces.

The software provided by Kaba Mas consists of

- Cencon Interactive Application: Interactive Central Point of Control
 - Used to create, distribute, manage One Time Combinations (OTC).
- CenTran Service: Background Central Point of Control
 - Used by customer, 3rd party applications to create, distribute and manage OTCs.
- CenTran Web Services: Used by customer web applications to communicate with CenTran Service.
- CenTran Agent
 - Remote lock management: Allows CenTran Service to communicate with ATM lock, streamlining lock administration.
- Key Box Agent
 - Remote key management: Allows CenTran Service to communicate with remote key boxes, supporting decentralized lock personnel.

The Cencon ATM Cash Vault Security System supports three Modes of Operation:

FLM Mode

Designed for First Line Maintenance (FLM) personnel such as cash replenishers, technical service reps, repair personnel, the FLM mode of the Cencon lock permits the dispatch center to give a One Time Combination (OTC) for ATM lock access to a technician "on the fly." FLM personnel are each issued a Smart Key and call their dispatch center to request a One Time Combination. Once used, this combination will not function again, thus ensuring absolute access control. Once the Cencon unit is locked, a Close Seal code is displayed on the lock's LCD. Entering this Close Seal into the dispatch center's computer documents that the Cencon lock is locked and secure.

Route Mode

While permitting the same access control as FLM Mode, Route Mode additionally permits pre-defined routes for armored cash replenishers. Route personnel are each issued a Smart Key. A route of locks, along with an OTC for each lock on the route, may be assigned by a dispatch center permitting route personnel to access a series of locks without contacting their dispatch center at each individual lock. Route personnel can either call their dispatch center at the end of the shift to report the Close Seals, or the Close Seals can be read from the Smart Key by the Cencon software.

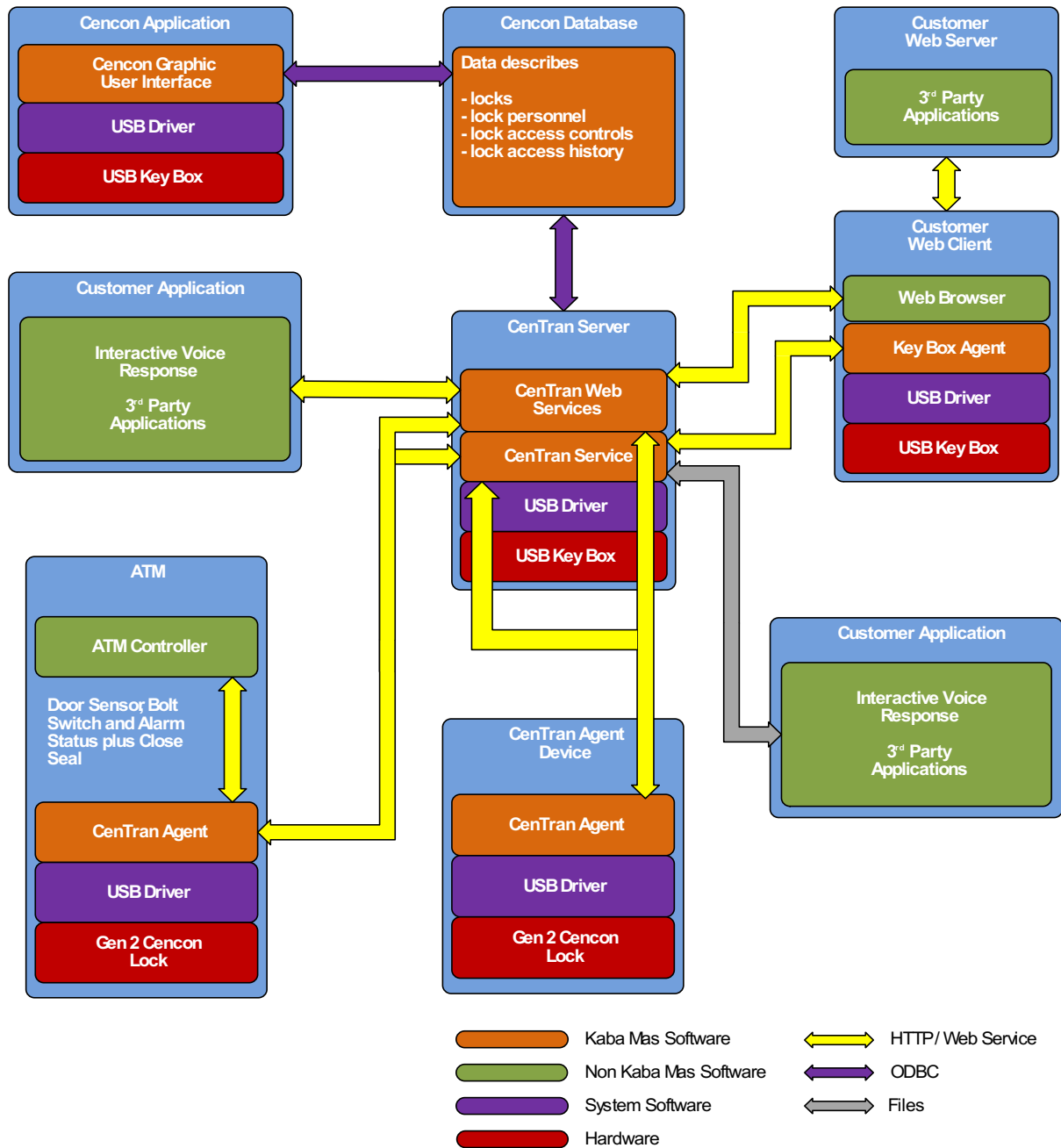
Bank Mode

Bank Mode is designed for bank personnel who may need access to the Cencon system lock but do not wish to operate through a dispatch center. Smart Keys and combinations are issued to bank personnel who may unlock the Cencon lock at any time. An internal audit trail tracks all activity of bank personnel just as it does for FLM and Route personnel. Kaba Mas Cencon software permits bank administrators to manage Bank Mode on site. Bank users may be added or deleted and audit trails may be downloaded from the lock.

High Level Overview of Cencon ATM Cash Vault Security System Component Architecture

The Cencon ATM Cash Vault Security System consists of several components whose method of use will vary depending on the business model of the supported enterprise. Presented here is a brief high level overview of the Cencon ATM Cash Vault Security System components.

Cencon ATM Cash Vault Security System Component Architecture



Cencon Database:

- Defines locks to be controlled, monitored and audited.
- Defines personnel allowed to access locks.
- Defines Personnel allowed to control access to locks.
- Contains access history for each lock.

Cencon Application:

- Interactive, graphical Windows application used to manage the Cencon Database contents.
- Requires a Cencon Key Box be attached to a USB port of the same computer.

CenTran Service:

- Available for use by customer applications to manage the Cencon Database contents.
- Applications communicate with the service via files or HTTP / Web Services.
- Runs in background as a Windows Service.

CenTran Web Services:

- Available for use by web applications to manage Cencon Database contents.

Customer Application Using CenTran Service Command File:

- The CenTran Service performs actions against the Cencon Database per commands imbedded in files.
- Results of those actions are reported in output files created by the CenTran Service.

Customer Application Using CenTran Web Services:

- The CenTran Service performs actions against the Cencon database per commands received via the CenTran Web Services.
- Results of those actions are reported to the customer application via the CenTran Web Services.

CenTran Agent:

- Allows CenTran Service to monitor lock in a real time manner.
- Runs on the ATM in the background as a Windows Service.

Key Box Agent:

- Allows CenTran Service access to Cencon Key Boxes on remote systems.
- Runs on remote Web Client systems in background as a Windows Service.

Customer Web Client:

- Customer developed web browser based user interface used to manage Cencon Database contents as well as Cencon Smart Keys via the CenTran Web Services.
- Can be located remotely.

Cencon ATM Cash Vault Security System Components and Business Processes

Examples of Business Processes Supported by Cencon ATM Cash Vault Security System Components:

1. FLM (First Line Maintenance) Operations with human Dispatcher:
 1. FLM personnel reaches ATM and contacts Dispatcher requesting OTC.
 2. Dispatcher generates OTC via Cencon interactive application, gives OTC to FLM personnel.
 3. FLM personnel opens and closes lock, recording the Close Seal.
 4. FLM personnel gives Close Seal to Dispatcher who enters it into Cencon database via Cencon interactive application.
2. Route Operations with human Dispatcher:
 1. Before starting route, Route personnel contacts Dispatcher and requests OTCs for each lock on route.
 2. Dispatcher generates OTCs via Cencon interactive application, gives OTCs to Route personnel.
 3. Route personnel opens and closes each lock on route, recording Close Seals.
 4. When the Route has been completed, the Close Seals are given to the Dispatcher who enters them into the Cencon database via Cencon interactive application.
3. FLM Operations with IVR (Interactive Voice Response) system:
 1. FLM personnel reaches ATM, calls IVR system and requests OTC.
 2. IVR system generates OTC via CenTran Command File interface and reports OTC to FLM person.
 3. FLM personnel opens and closes lock, recording the Close Seal.
 4. FLM personnel calls IVR system and enters Close Seal.
 5. IVR system records Close Seal in Cencon database via CenTran Command File interface.

Though business processes will vary between companies there are core lock management tasks that will be used in every enterprise such as:

- Create User and Initialize Smart Key
- Delete User
- Dispatch Lock
- Open / Close physical lock
- Close Lock in Cencon database
- Reassign Lock
- Audit Lock
- Audit Key
- Audit Cencon Database

The following lists describe for a few of the core lock management tasks one possible flow of control through the Cencon ATM Cash Vault Security System components.

Create User and Initialize Smart Key:

- Dispatcher ->
- Customer Web Client ->

- CenTran Web Services ->
- CenTran Service ->
- CenTran Web Services ->
- Key Box Agent (writes KEY) ->
- CenTran Service ->
- CenTran Web Services ->
- Customer Web Client

Note:

- Customer Web Client & Key Box Agent will probably be on same location but do not have to be
- Customer Web Client does NOT require a Keybox on the same system

Dispatch Lock(s):

- Dispatcher ->
- Customer Web Client ->
- CenTran Web Services ->
- CenTran Service ->
- Cencon Database ->
- CenTran Service ->
- CenTran Web Services ->
- Customer Web Client ->
- Dispatcher receives OTC
- Dispatcher transmits OTC to FLM/Route personnel

Lock is physically opened and closed:

- Service personnel calls Close Seal in to the Dispatcher who "Closes Lock" in the Cencon Database. The component flow is the same as that described for Dispatch Lock(s).
 - OR
- CenTran Agent Service on ATM uses CenTran Web Services to report Closure to CenTran Service and "Closes Lock" in the Cencon Database programmatically:
 - Lock is closed ->
 - CenTran Agent ->
 - CenTran Web Services ->
 - CenTran Service ->
 - Cencon Database ->
 - CenTran Service ->
 - CenTran Web Services ->
 - CenTran Agent

1.2 Introduction - CenTran Service Overview

CenTran Programming Reference Manual

CenTran is a service supporting the integration of Cencon software with customer business software and operations. To enable this type of integration, CenTran supports several forms of communications:

- XML File Transfer Communications
- REST XML Web Service Communications (HTTPS)
- REST JSON Web Service Communications (HTTPS)
- SOAP Web Service Communications (HTTPS)
- Local System Named Pipe Communications
- Legacy Binary File Format Transfer Communications (Deprecated)

Programming Previous CenTran Releases

CenTran 5 supports the fixed binary file format used in programming previous versions. The programming guide for the fixed binary file format is a separate document 2039.041CentranWinPgmGuideD.pdf which can be found in the CenTran Documents folder of the install CD. All the contents of that document are relevant to CenTran 5, excluding the 'Configuration Files' section.

The CenTran XML file format overcomes the disadvantages and restrictions of the fixed binary file format used in previous versions of CenTran and provides support for new features.

Support for the binary file format is deprecated. The binary file format does not support the size of longer lock serial numbers greater than 6 digits. The binary file format can not be used to dispatch or close Cencon Gen 2 locks with serial numbers over a million. All currently shipping Cencon Gen 2 locks will have a serial number longer than 6 digits.

CenTran is hosted on a server connected to a Cencon USB key box. Transactions are exchanged between the customer's program and the CenTran System via shared files, web service, or named pipe.

In the case of communications by file transfer, these files are created in a specific directory with a specific extension. The customer's system creates transactions in files with one extension, while a different extension is used for files containing response transactions created by CenTran. CenTran reads the incoming transaction file, then deletes the incoming transaction file and eventually creates an output transaction file in the specified output directory.

The content of each XML input and output (response) transaction varies (unlike the transaction format for binary files). The format for each transaction is specified in an XML schema provided with CenTran. The input transaction files must conform to the format specified in the given schema.

The different categories of transaction include Lock, Route, User, Customer, Activity Log, Authorization and Region transactions.

User authorization tables in the Cencon database allow for controlled access to program operations. The authorizations for a particular user are established by assigning a Role when the user is created using the Cencon 5 software. The specific tasks the user may perform are the Role Definitions which are associated with that Role. For more information on user authorizations, refer to the 'User Authorization' section of the Cencon Version 5 Reference Manual. If a dispatcher ID is presented in a transaction file, it will have its authorizations checked when doing an operation. If CenTran defaults to the specified dispatcher ID from the CenTran settings, that dispatcher ID will have authorizations checked when doing an operation.

The generic format of input and output transactions is discussed in sections 1.3. Sections 1.4, 1.5, and 1.6 have examples illustrating how the CenTran transaction processor can be used.

Important Note

The Cencon System allows the entry of personal data. Please consult [Appendix F - dormakaba Safe Locks Privacy Statement](#) to see how personal data may be used in this software.

1.3 Introduction - Generic Format of Transaction Input / Output with XML Content

CenTran Programming Reference Manual

Generic Format of Transaction Input with XML Content

The input transactions which have XML content in them should conform to the format specified in the given schema.

- Most of the transactions have a format where the input elements (xml elements of the input transaction file) are listed sequentially in the order specified in the schema.
- In the case of route transactions, if multiple route locks need to be processed (for tasks like addition, deletion, dispatching, reassigning, closing), each route lock has to be specified according to the format for a route lock record in the schema. The exception to this rule is when all the locks on a route have to be dispatched or reassigned and in this case it is enough if CenTran is given only the route name. The route locks are processed by CenTran in the order in which they are listed in the input file.
- In the case of transactions which update a table with information supplied in the input file, only those fields of the table corresponding to elements present in the input transaction file are updated and the rest of the fields are not changed.
- In the case of query transactions (transactions which query a table based on a search condition), the query records can have the input elements in any order. Those input elements which do not contribute to the search query can be left out from the query record. In the case of query transactions (transactions which query a table based on a search condition), the query records can have the input elements in any order. Those input elements which do not contribute to the search query can be left out of the query record.
- All the transactions require a Dispatcher ID to be specified in the input file. If the ID is left blank, then the default dispatcher ID specified in the CenTran registry will be used instead.

Example of an Input Transaction with XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<CentranXMLScript xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
  <TRANSACTION_DISPATCH_LOCK>
    <LockName>VLK009</LockName>
    <LockMode>F</LockMode>
    <User1ID>fjrb1</User1ID>
    <User2ID />
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_LOCK>
</CentranXMLScript>
```

1.4 Generic Format of Output Transactions with XML Content

The output transactions which have xml content in them should also conform to the format specified in the given schema.

- If the input transaction does not conform or cannot be validated against the format specified in the schema, CenTran returns an output transaction with the details of the validation errors.
- All the output transactions have the input transaction, followed by a result record indicating success or failure. The result record has:
 - A result element - "Success" or "Failure".
 - An error code (an extensive but not exhaustive list can be found in Appendix A). The error code for a completely successful transaction is always RC_OK.
 - A brief description of the result.
- After the result record, if the transaction has succeeded, there could be data from one or more records retrieved from the database/route file or there could be specific pieces of information that were requested by the dispatcher of the transaction.

For example, if a lock dispatch has succeeded, the database record of the lock which has been dispatched is retrieved and appended to the output file after the result record. Multiple records may be retrieved when a query transaction is processed and all the records matching the search condition is retrieved. In the case of a transaction in which only the count of a query (the number of records that match the search condition of the query) is needed, only that information is retrieved and appended after the result record.

- If a transaction has failed, there may or may not be extra information provided at the end of a result record, depending on the type of transaction.
- In the route transactions involving the processing of multiple route locks, each route lock has a result record indicating success or failure with error code and description for that particular route lock. There is also a result record containing the overall result for the transaction, which could be complete success (all route locks were processed successfully), partial success (only some route locks were processed successfully) or complete failure (no route locks were processed successfully).
- Some records retrieved from the database may leave out sensitive (Base Combo fields, Master Combo fields, Lock Communications Key, Encrypted Password fields) or unnecessary fields (Sublock fields).

Example of an Output Transaction with XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<CentranXMLScript xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
  <!--Kaba Mas CenTran Response to TRANSACTION_DISPATCH_LOCK-->
  <RESPONSE_DISPATCH_LOCK>
    <TRANSACTION_DISPATCH_LOCK>
      <LockName>VLK009</LockName>
      <LockMode>F</LockMode>
      <User1ID>fjrb1</User1ID>
      <User2ID />
      <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_DISPATCH_LOCK>
```

```

<ResultRecord>
  <Result>Success</Result>
  <ErrorCode>RC_OK</ErrorCode>
  <Description>The lock dispatch succeeded.</Description>
</ResultRecord>
<LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK009</LockName>
  <RecordType>A</RecordType>
  <StartDate>2002-11-01T21:14:43.667Z</StartDate>
  <LastUsedDate>2009-11-18T15:39:56.844Z</LastUsedDate>
  <CustomerNumber>123456</CustomerNumber>
  <LockMode>F</LockMode>
  <IfDualMode>0</IfDualMode>
  <IfLockOpen>1</IfLockOpen>
  <IfForcedClosed>0</IfForcedClosed>
  <IfRoute1Issued>0</IfRoute1Issued>
  <IfRoute2Issued>0</IfRoute2Issued>
  <IfRoute3Issued>0</IfRoute3Issued>
  <IfNoAlarm>0</IfNoAlarm>
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <IfActivationCall>0</IfActivationCall>
  <SerialNumber>532009</SerialNumber>
  <Seal>102</Seal>
  <PreviousSeal>51</PreviousSeal>
  <RouteSeal1>102</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>51</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>993264</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>417360</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <AuditCount>3</AuditCount>
  <GroupName />
  <OriginalSerialNumber>0</OriginalSerialNumber>
  <Description1>Lock Description....</Description1>
  <Description2 />
  <Description3 />
  <Description4 />
  <CustomerID>Lock Associated Customer Name</CustomerID>
  <ATMSerialNumber />
  <UserDefined1 />
  <UserDefined2 />
  <UserDefined3 />
  <UserDefined4 />
  <Region>Lexington Southwest</Region>
  <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
  <IfLastRoute1Issued>0</IfLastRoute1Issued>
  <IfLastRoute2Issued>0</IfLastRoute2Issued>
  <IfLastRoute3Issued>0</IfLastRoute3Issued>
  <User1ID1>fjrb1</User1ID1>
  <User1ID2 />
  <User1ID3 />
  <User2ID1 />
  <User2ID2 />
  <User2ID3 />
  <RouteName1 />
  <RouteName2 />
  <RouteName3 />
  <DispatcherID1>CentranSS</DispatcherID1>
  <DispatcherID2 />
  <DispatcherID3 />
  <OpenTime1>2009-11-18T15:39:56.844Z</OpenTime1>
  <OpenTime2 xsi:nil="true" />
  <OpenTime3 xsi:nil="true" />
  <CloseTime1 xsi:nil="true" />
  <CloseTime2 xsi:nil="true" />
  <CloseTime3 xsi:nil="true" />
  <IfPreviousRoute1Issued>0</IfPreviousRoute1Issued>
  <IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
  <IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
  <PreviousUser1ID1>ftom</PreviousUser1ID1>
  <PreviousUser1ID2 />
  <PreviousUser1ID3 />
  <PreviousUser2ID1 />
  <PreviousUser2ID2 />
  <PreviousUser2ID3 />
  <PreviousRouteName1 />
  <PreviousRouteName2 />
  <PreviousRouteName3 />
  <PreviousOpenTime1>2005-03-22T19:26:28.343Z</PreviousOpenTime1>
  <PreviousOpenTime2 xsi:nil="true" />

```



```
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2005-03-31T13:43:23.123Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</RESPONSE_DISPATCH_LOCK>
</CentranXMLScript>
```

1.4 Introduction - Version Example

CenTran Programming Reference Manual

The following example illustrates how you would request the CenTran version information:

```
<CentranXMLScript>
  <TRANSACTION_VERSION>
</TRANSACTION_VERSION>
</CentranXMLScript>
```

The following example is what the response from CenTran for version information looks like:

```
<CentranXMLScript>
  <RESPONSE_VERSION>
    <ProductName>Centran</ProductName>
    <Version>4.1.5.2621</Version>
    <MajorVersionNumber>4</MajorVersionNumber>
    <MinorVersionNumber>1</MinorVersionNumber>
    <MaintenanceVersionNumber>5</MaintenanceVersionNumber>
    <BuildVersionNumber>2621</BuildVersionNumber>
    <ServerDateTimeUTC>2012-04-18T14:23:55.518Z</ServerDateTimeUTC>
    <ServerDateTimeLocal>2012-04-18T10:23:55.518-04:00</ServerDateTimeLocal>
    <ServerTimeZoneBias>-240</ServerTimeZoneBias>
  </RESPONSE_VERSION>
</CentranXMLScript>
```

1.5 Introduction - Dispatch Example

CenTran Programming Reference Manual

The following example illustrates how you would use the transaction processor to obtain the combination to open a lock. This transaction would be the same as choosing the "Dispatch Lock" option on the Cencon 5 Dispatching System. The example takes the lock name, lock mode, dispatcher ID, FLM/RSP ID values and processes them to create a transaction that matches the format specified in the XML schema.

The response transaction from CenTran will have the original input transaction followed by a result record and the lock record retrieved from the database after lock dispatch. The lock record will have the combinations to be used for opening the lock.

The example is in C++, using the .NET library.

Sample Code for Dispatching a Lock

```
// Get Lock name, Mode, User IDs, Dispatcher
System::String^ strLockName = "VLK016";
System::String^ strLockMode = "R";
System::String^ strUser1ID = "rjrb1";
System::String^ strUser2ID = "rjrb2";
System::String^ strDispatcherID = "CentranSS";

// Dispatch lock transaction - XML format
System::String^ strTransaction =
    "<TRANSACTION_DISPATCH_LOCK>" +
    "<LockName></LockName>" +
    "<LockMode></LockMode>" +
    "<User1ID></User1ID>" +
    "<User2ID></User2ID>" +
    "<DispatcherID></DispatcherID>" +
    "</TRANSACTION_DISPATCH_LOCK>";

// Insert Lock name, Mode, User IDs, Dispatcher values
strTransaction = strTransaction->Replace("<LockName></LockName>", "<LockName>" + strLockName + "</LockName>");
strTransaction = strTransaction->Replace("<LockMode></LockMode>", "<LockMode>" + strLockMode + "</LockMode>");
strTransaction = strTransaction->Replace("<User1ID></User1ID>", "<User1ID>" + strUser1ID + "</User1ID>");
strTransaction = strTransaction->Replace("<User2ID></User2ID>", "<User2ID>" + strUser2ID + "</User2ID>");
strTransaction = strTransaction->Replace("<DispatcherID></DispatcherID>", "<DispatcherID>" + strDispatcherID + "");

// Create XML Writer for the given input file
System::Xml::XmlWriter^ writer = System::Xml::XmlWriter::Create("C:\\CentranInput\\t07d.Tip");

// Write XML declaration
writer->WriteStartDocument();

// First element is always CentranXMLScript
strTransaction = "<CentranXMLScript xmlns='http://www.kaba-mas.com/CentranTransac.xsd'>" + strTransaction +
    "</CentranXMLScript>";

// Load XML Document from transaction string
document->LoadXml(strTransaction->Trim());

// Save the document to centran's input file
document->Save(writer);
// XML declaration
writer->WriteEndDocument();

// Flush buffer and close writer.
writer->Flush();
writer->Close();
.
.
/*Wait here for new file to appear
*/
.
.

// Create XmlReader reader for new file 'xmlFile'.
// settings (of type XmlReaderSettings) can be used to validate xmlFile against the
// given schema.
System::Xml::XmlReader^ reader = XmlReader::Create(xmlFile, settings);

// Load xml file to xml document
document->Load(reader);

// Close xml reader
reader->Close();

// Navigate document to 'ResultRecord' node (the node whose children contain the details of the result of the transaction)

// Then check if Success and get combination 1 and combination 2
if (result_node->FirstChild->InnerText == "Success")
{
    //Get combinations as strings
    System::Xml::XmlNodeList^ xlist1 = document->GetElementsByTagName("IssuedComboUser1Seq1");
    System::String^ strCombo1 = xlist1->Item(0)->ChildNodes[0]->Value->Trim();
    System::Xml::XmlNodeList^ xlist2 = document->GetElementsByTagName("IssuedComboUser2Seq1");
    System::String^ strCombo2 = xlist2->Item(0)->ChildNodes[0]->Value->Trim();
}
```


1.6 Introduction - Close Locks on Route Example

CenTran Programming Reference Manual

The next example illustrates how you might close a dispatched route. In this example, a transaction is posted requesting a list of all the locks on a route. Then, all the open locks are determined from the list based on the Open Time and Close Time of each lock. These names are then displayed to the operator and the appropriate close seals are entered and placed in the transaction record. A close transaction with multiple route lock records is then sent to CenTran to close the open locks on the route. Note that you do not have to query the open locks in the system in order to try to close them. You may keep track of what locks are open and simply post the close route transaction supplying the route lock records yourself.

The example is in C++, using the .NET library.

Sample Code for Closing Locks on Route

```
// Read locks on a route
// Get Route name, Dispatcher
System::String^ strRouteName = "TestRte4";
System::String^ strDispatcherID = "CentranSS";

// Read route transaction - XML format
System::String^ strTransaction =
    "<TRANSACTION_READ_ROUTE >" +
    "<RouteName></RouteName>" +
    "<DispatcherID></DispatcherID>" +
    "</TRANSACTION_READ_ROUTE >";

// Insert Route name, Dispatcher values
strTransaction = strTransaction->Replace("<RouteName></RouteName>", "<RouteName>" + strRouteName +
    "</RouteName>");
strTransaction = strTransaction->Replace("<DispatcherID></DispatcherID>", "<DispatcherID>" + strDispatcherID +
    "</DispatcherID>");

// Create XML Writer
System::Xml::XmlWriter^ writer = System::Xml::XmlWriter::Create("C:\\CentranInput\\ t07d.Tip);

// Write XML declaration
writer->WriteStartDocument();

// First element is always CentranXMLScript
strTransaction = "<CentranXMLScript xmlns='http://www.kaba-mas.com/CentranTransac.xsd'>" + strTransaction +
    "</CentranXMLScript>";

// Load XML Document from transaction string
document->LoadXml(strTransaction->Trim());

// Save the document to centran input file
document->Save(writer);

// XML declaration
writer->WriteEndDocument();

// Flush buffer and close writer.
writer->Flush();
writer->Close();

.
.
/*Wait here for new file to appear
*/
.
.

// Create XmlReader reader for new file xmlFile.
// settings (of type XmlReaderSettings) can be used to validate xmlFile against the
// given schema.
System::Xml::XmlReader^ reader = XmlReader::Create(xmlFile, settings);

// Load xml file to xml document
document->Load(reader);

// Close xml reader
reader->Close();

// Get list of route lock records
System::Xml::XmlNodeList^ xlist = document->GetElementsByTagName("RouteLockRecord");

// Navigate route lock records to find those that are open
// Add open route locks to RouteLockNodeArray
System::Collections::Generic::List ^ RouteLockNodeArray;
for each (XmlNode^ route_lock_node in xlist)
{
    // If route lock record has an open time that is not null but close time that is
    // null (null value for date is displayed as 0001-01-01T00:00:00)
    if ((route_lock_node->ChildNodes[4]->InnerText != "0001-01-01T00:00:00")
        && (route_lock_node->ChildNodes[5]->InnerText == "0001-01-01T00:00:00"))
    {
        RouteLockNodeArray->Add(route_lock_node);
    }
}

.
.
.
/*Show the locks to the operator, get close seals, and
Build the "Close locks on route" transaction string with seals */
```

```

.
.

// Convert close seals into strings and add them to a string array strCloseSealArray

System::String^ strTransaction =
    "<TRANSACTION_CLOSE_LOCKS_ROUTE>" +
    "<RouteName>" + strRouteName + "</RouteName>";

// For each route lock, add a Close route lock record element
for each (int i = 0; i < RouteLockNodeArray->Count; i++)
{
    XmlNode^ route_lock_node = RouteLockNodeArray.get()[i];

    System::String^ strLockName = route_lock_node->FirstChild->InnerText;
    System::String^ strLockSeq = route_lock_node->ChildNodes[6] ->InnerText;

    System::String^ strCloseRouteLock =
        "<CloseRouteLockRecord>" +
        "<LockName></LockName>" +
        "<LockSequence></LockSequence>" +
        "<CloseSeal></CloseSeal>" +
        "<IfForcedClosed>0</IfForcedClosed>" +
        "</CloseRouteLockRecord>";

    // Insert Lock name, sequence and close seal
    strCloseRouteLock = strCloseRouteLock->Replace(
        "<LockName></LockName>",
        "<LockName>" + strLockName + "</LockName>");

    strCloseRouteLock = strCloseRouteLock->Replace(
        "<LockSequence></LockSequence>",
        "<LockSequence>" + strLockSeq + "</LockSequence>");

    strCloseRouteLock = strCloseRouteLock->Replace(
        "<CloseSeal></CloseSeal>",
        "<CloseSeal>" + strCloseSealArray[i] + "</CloseSeal>");

    strTransaction = strTransaction + strCloseRouteLock;
}

strTransaction = strTransaction + "<DispatcherID>" + strDispatcherID + "</DispatcherID>";

strTransaction = strTransaction + "</TRANSACTION_CLOSE_LOCKS_ROUTE>";

// Create XML Writer
System::Xml::XmlWriter^ writer = System::Xml::XmlWriter::Create("C:\CentranInput\t07d.Tip");

// Write XML declaration
writer->WriteStartDocument();

// First element is always CentranXMLScript
strTransaction = "<CentranXMLScript xmlns='http://www.kaba-mas.com/CentranTransac.xsd'>" + strTransaction +
    "</CentranXMLScript>"

// Load XML Document from transaction string
document->LoadXml(strTransaction->Trim());

// Save the document to centran input file
document->Save(writer);

// XML declaration
writer->WriteEndDocument();

// Flush buffer and close writer.
writer->Flush();
writer->Close();

.
.
/*Wait here for new file to appear
*/
.
.

// Create XmlReader reader for new file xmlFile.
// settings (of type XmlReaderSettings) can be used to validate xmlFile against the given schema.
System::Xml::XmlReader^ reader = XmlReader::Create(xmlFile, settings);

// Load xml file to xml document
document->Load(reader);

// Close xml reader
reader->Close();

// Get list of result records
System::Xml::XmlNodeList^ ResultRecordNodeArray =
    document->GetElementsByTagName("ResultRecord");

for each (XmlNode^ result_node in ResultRecordNodeArray)
{
    // Print result from each result node
    // There is a result node for the overall transaction and each route lock
    print_result_message(result_node);
}

```


2.1.1 CenTran Status XML File Transactions - Version

CenTran Status XML File Transactions

This transaction is used to read the CenTran version and current server time.

Transaction information required:

- No information required.

Transaction information returned:

Success:

- Product name
- Version
- Major version number
- Minor version number
- Maintenance version number
- Build version number
- Server date and time based off of UTC
- Server date and time based off of Local Time
- Server time zone bias in minutes

Failure:

There should not be a failed return of data unless an internal error or connectivity error with CenTran has occurred.

Example

Input Transaction:

```
<TRANSACTION_VERSION />
```

Output Transaction:

```
<RESPONSE_VERSION>
  <ProductName>Centran</ProductName>
  <Version>4.1.5.2621</Version>
  <MajorVersionNumber>4</MajorVersionNumber>
  <MinorVersionNumber>1</MinorVersionNumber>
  <MaintenanceVersionNumber>5</MaintenanceVersionNumber>
  <BuildVersionNumber>2621</BuildVersionNumber>
  <ServerDateTimeUTC>2012-04-16T16:25:11.1464266Z</ServerDateTimeUTC>
  <ServerDateTimeLocal>2012-04-16T12:25:11.1464266-04:00</ServerDateTimeLocal>
  <ServerTimeZoneBias>-240</ServerTimeZoneBias>
</RESPONSE_VERSION>
```


2.1.2 CenTran Status XML File Transactions - Available Time Zones

CenTran Status XML File Transactions

This transaction is used to read the CenTran server available time zone information.

Transaction information required:

- No information required.

Transaction information returned:

Success:

- ServerDateTimeUTC - Server Data / Time based on UTC (Coordinated Universal Time).
- ServerDateTimeLocal - Server Data / Time based on Server Local Time Zone.
- ServerTimeZoneBias - Server time zone bias in minutes. (This value can be positive or negative.)
- ServerTimeZoneID - Server time zone ID. This value is a unique identifier for the time zone the server has assigned.
- TimeZoneRecord - This is an array of zero or more records describing the time zone information available on the server.

TimeZoneRecord:

- TimeZoneBias - This is the time zone bias in minutes from the time zone local time to UTC. (Integer)
- TimeZoneDaylightName - This is the time zone name for daylight savings time. (String)
- TimeZoneDisplayName - This is the display name for the time zone. (String)
- TimeZoneID - This is a unique identifier for the time zone. This value is used with CenTran transactions to identify the time zone to use. (String)
- TimeZoneStandardName - This is the time zone name for standard time. (String)
- IfSupportsDaylightSavingTime - This boolean value is set to true if the time zone supports daylight savings time. (Boolean)

Failure:

There should not be a failed return of data unless an internal error or connectivity error with CenTran has occurred.

Example

Input Transaction:

```
<TRANSACTION_AVAILABLE_TIME_ZONE_QUERY />
```

Output Transaction:

```
<CentranXMLScript>
  <RESPONSE_AVAILABLE_TIME_ZONE_QUERY>
    <ServerDateTimeUTC>2015-04-20T13:19:51.4037356Z</ServerDateTimeUTC>
    <ServerDateTimeLocal>2015-04-20T09:19:51.4037356-04:00</ServerDateTimeLocal>
    <ServerTimeZoneBias>-240</ServerTimeZoneBias>
    <ServerTimeZoneID>Eastern Standard Time</ServerTimeZoneID>
    <TimeZoneRecord>
      <TimeZoneBias>-720</TimeZoneBias>
      <TimeZoneDaylightName>Dateline Daylight Time</TimeZoneDaylightName>
      <TimeZoneDisplayName>(UTC-12:00) International Date Line West</TimeZoneDisplayName>
      <TimeZoneID>Dateline Standard Time</TimeZoneID>
      <TimeZoneStandardName>Dateline Standard Time</TimeZoneStandardName>
      <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
      <TimeZoneBias>-660</TimeZoneBias>
      <TimeZoneDaylightName>UTC-11</TimeZoneDaylightName>
      <TimeZoneDisplayName>(UTC-11:00) Coordinated Universal Time-11</TimeZoneDisplayName>
      <TimeZoneID>UTC-11</TimeZoneID>
      <TimeZoneStandardName>UTC-11</TimeZoneStandardName>
      <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
      <TimeZoneBias>-600</TimeZoneBias>
      <TimeZoneDaylightName>Hawaiian Daylight Time</TimeZoneDaylightName>
      <TimeZoneDisplayName>(UTC-10:00) Hawaii</TimeZoneDisplayName>
      <TimeZoneID>Hawaiian Standard Time</TimeZoneID>
      <TimeZoneStandardName>Hawaiian Standard Time</TimeZoneStandardName>
      <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
      <TimeZoneBias>-540</TimeZoneBias>
      <TimeZoneDaylightName>Alaskan Daylight Time</TimeZoneDaylightName>
      <TimeZoneDisplayName>(UTC-09:00) Alaska</TimeZoneDisplayName>
      <TimeZoneID>Alaskan Standard Time</TimeZoneID>
      <TimeZoneStandardName>Alaskan Standard Time</TimeZoneStandardName>
      <IfSupportsDaylightSavingTime>>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
      <TimeZoneBias>-480</TimeZoneBias>
      <TimeZoneDaylightName>Pacific Daylight Time (Mexico)</TimeZoneDaylightName>
      <TimeZoneDisplayName>(UTC-08:00) Baja California</TimeZoneDisplayName>
      <TimeZoneID>Pacific Standard Time (Mexico)</TimeZoneID>
      <TimeZoneStandardName>Pacific Standard Time (Mexico)</TimeZoneStandardName>
      <IfSupportsDaylightSavingTime>>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
      <TimeZoneBias>-480</TimeZoneBias>
      <TimeZoneDaylightName>Pacific Daylight Time</TimeZoneDaylightName>
```

```

    <TimeZoneDisplayName>(UTC-08:00) Pacific Time (US & Canada)</TimeZoneDisplayName>
    <TimeZoneID>Pacific Standard Time</TimeZoneID>
    <TimeZoneStandardName>Pacific Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
    <TimeZoneBias>-420</TimeZoneBias>
    <TimeZoneDaylightName>US Mountain Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC-07:00) Arizona</TimeZoneDisplayName>
    <TimeZoneID>US Mountain Standard Time</TimeZoneID>
    <TimeZoneStandardName>US Mountain Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
    <TimeZoneBias>-420</TimeZoneBias>
    <TimeZoneDaylightName>Mountain Daylight Time (Mexico)</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC-07:00) Chihuahua, La Paz, Mazatlan</TimeZoneDisplayName>
    <TimeZoneID>Mountain Standard Time (Mexico)</TimeZoneID>
    <TimeZoneStandardName>Mountain Standard Time (Mexico)</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
    <TimeZoneBias>-420</TimeZoneBias>
    <TimeZoneDaylightName>Mountain Daylight Time</TimeZoneDaylightName>
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        <TimeZoneDaylightName>Caucasus Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+04:00) Yerevan</TimeZoneDisplayName>
        <TimeZoneID>Caucasus Standard Time</TimeZoneID>
        <TimeZoneStandardName>Caucasus Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>270</TimeZoneBias>
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        <TimeZoneID>Afghanistan Standard Time</TimeZoneID>
        <TimeZoneStandardName>Afghanistan Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>300</TimeZoneBias>
        <TimeZoneDaylightName>West Asia Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+05:00) Ashgabat, Tashkent</TimeZoneDisplayName>
        <TimeZoneID>West Asia Standard Time</TimeZoneID>
        <TimeZoneStandardName>West Asia Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>300</TimeZoneBias>
        <TimeZoneDaylightName>Russia TZ 4 Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+05:00) Ekaterinburg (RTZ 4)</TimeZoneDisplayName>
        <TimeZoneID>Ekaterinburg Standard Time</TimeZoneID>
        <TimeZoneStandardName>Russia TZ 4 Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>300</TimeZoneBias>
        <TimeZoneDaylightName>Pakistan Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+05:00) Islamabad, Karachi</TimeZoneDisplayName>
        <TimeZoneID>Pakistan Standard Time</TimeZoneID>
        <TimeZoneStandardName>Pakistan Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>330</TimeZoneBias>
        <TimeZoneDaylightName>India Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+05:30) Chennai, Kolkata, Mumbai, New
Delhi</TimeZoneDisplayName>
        <TimeZoneID>India Standard Time</TimeZoneID>
        <TimeZoneStandardName>India Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>330</TimeZoneBias>
        <TimeZoneDaylightName>Sri Lanka Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+05:30) Sri Jayawardanapura</TimeZoneDisplayName>
        <TimeZoneID>Sri Lanka Standard Time</TimeZoneID>
        <TimeZoneStandardName>Sri Lanka Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>345</TimeZoneBias>
        <TimeZoneDaylightName>Nepal Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+05:45) Kathmandu</TimeZoneDisplayName>
        <TimeZoneID>Nepal Standard Time</TimeZoneID>
        <TimeZoneStandardName>Nepal Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>360</TimeZoneBias>
        <TimeZoneDaylightName>Central Asia Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+06:00) Astana</TimeZoneDisplayName>
        <TimeZoneID>Central Asia Standard Time</TimeZoneID>
        <TimeZoneStandardName>Central Asia Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>360</TimeZoneBias>
        <TimeZoneDaylightName>Bangladesh Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+06:00) Dhaka</TimeZoneDisplayName>
        <TimeZoneID>Bangladesh Standard Time</TimeZoneID>
        <TimeZoneStandardName>Bangladesh Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>360</TimeZoneBias>
        <TimeZoneDaylightName>Russia TZ 5 Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+06:00) Novosibirsk (RTZ 5)</TimeZoneDisplayName>
        <TimeZoneID>N. Central Asia Standard Time</TimeZoneID>
        <TimeZoneStandardName>Russia TZ 5 Standard Time</TimeZoneStandardName>

```

```

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        <TimeZoneBias>390</TimeZoneBias>
        <TimeZoneDaylightName>Myanmar Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+06:30) Yangon (Rangoon)</TimeZoneDisplayName>
        <TimeZoneID>Myanmar Standard Time</TimeZoneID>
        <TimeZoneStandardName>Myanmar Standard Time</TimeZoneStandardName>
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    <TimeZoneRecord>
        <TimeZoneBias>420</TimeZoneBias>
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        <TimeZoneDisplayName>(UTC+07:00) Bangkok, Hanoi, Jakarta</TimeZoneDisplayName>
        <TimeZoneID>SE Asia Standard Time</TimeZoneID>
        <TimeZoneStandardName>SE Asia Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>420</TimeZoneBias>
        <TimeZoneDaylightName>Russia TZ 6 Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+07:00) Krasnoyarsk (RTZ 6)</TimeZoneDisplayName>
        <TimeZoneID>North Asia Standard Time</TimeZoneID>
        <TimeZoneStandardName>Russia TZ 6 Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>480</TimeZoneBias>
        <TimeZoneDaylightName>China Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+08:00) Beijing, Chongqing, Hong Kong,
Urumqi</TimeZoneDisplayName>
        <TimeZoneID>China Standard Time</TimeZoneID>
        <TimeZoneStandardName>China Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>480</TimeZoneBias>
        <TimeZoneDaylightName>Russia TZ 7 Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+08:00) Irkutsk (RTZ 7)</TimeZoneDisplayName>
        <TimeZoneID>North Asia East Standard Time</TimeZoneID>
        <TimeZoneStandardName>Russia TZ 7 Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
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        <TimeZoneBias>480</TimeZoneBias>
        <TimeZoneDaylightName>Malay Peninsula Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+08:00) Kuala Lumpur, Singapore</TimeZoneDisplayName>
        <TimeZoneID>Singapore Standard Time</TimeZoneID>
        <TimeZoneStandardName>Malay Peninsula Standard Time</TimeZoneStandardName>
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    <TimeZoneRecord>
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        <TimeZoneDaylightName>W. Australia Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+08:00) Perth</TimeZoneDisplayName>
        <TimeZoneID>W. Australia Standard Time</TimeZoneID>
        <TimeZoneStandardName>W. Australia Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
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        <TimeZoneDisplayName>(UTC+08:00) Taipei</TimeZoneDisplayName>
        <TimeZoneID>Taipei Standard Time</TimeZoneID>
        <TimeZoneStandardName>Taipei Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
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        <TimeZoneDisplayName>(UTC+08:00) Ulaanbaatar</TimeZoneDisplayName>
        <TimeZoneID>Ulaanbaatar Standard Time</TimeZoneID>
        <TimeZoneStandardName>Ulaanbaatar Standard Time</TimeZoneStandardName>
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        <TimeZoneBias>540</TimeZoneBias>
        <TimeZoneDaylightName>Tokyo Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+09:00) Osaka, Sapporo, Tokyo</TimeZoneDisplayName>
        <TimeZoneID>Tokyo Standard Time</TimeZoneID>
        <TimeZoneStandardName>Tokyo Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
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        <TimeZoneDisplayName>(UTC+09:00) Seoul</TimeZoneDisplayName>
        <TimeZoneID>Korea Standard Time</TimeZoneID>
        <TimeZoneStandardName>Korea Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>540</TimeZoneBias>
        <TimeZoneDaylightName>Russia TZ 8 Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+09:00) Yakutsk (RTZ 8)</TimeZoneDisplayName>
        <TimeZoneID>Yakutsk Standard Time</TimeZoneID>
        <TimeZoneStandardName>Russia TZ 8 Standard Time</TimeZoneStandardName>

```



```

        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
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        <TimeZoneDisplayName>(UTC+09:30) Adelaide</TimeZoneDisplayName>
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        <TimeZoneStandardName>Cen. Australia Standard Time</TimeZoneStandardName>
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    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>570</TimeZoneBias>
        <TimeZoneDaylightName>AUS Central Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+09:30) Darwin</TimeZoneDisplayName>
        <TimeZoneID>AUS Central Standard Time</TimeZoneID>
        <TimeZoneStandardName>AUS Central Standard Time</TimeZoneStandardName>
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    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>600</TimeZoneBias>
        <TimeZoneDaylightName>E. Australia Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+10:00) Brisbane</TimeZoneDisplayName>
        <TimeZoneID>E. Australia Standard Time</TimeZoneID>
        <TimeZoneStandardName>E. Australia Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>600</TimeZoneBias>
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        <TimeZoneDisplayName>(UTC+10:00) Canberra, Melbourne, Sydney</TimeZoneDisplayName>
        <TimeZoneID>AUS Eastern Standard Time</TimeZoneID>
        <TimeZoneStandardName>AUS Eastern Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>600</TimeZoneBias>
        <TimeZoneDaylightName>West Pacific Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+10:00) Guam, Port Moresby</TimeZoneDisplayName>
        <TimeZoneID>West Pacific Standard Time</TimeZoneID>
        <TimeZoneStandardName>West Pacific Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>600</TimeZoneBias>
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        <TimeZoneDisplayName>(UTC+10:00) Hobart</TimeZoneDisplayName>
        <TimeZoneID>Tasmania Standard Time</TimeZoneID>
        <TimeZoneStandardName>Tasmania Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
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    <TimeZoneRecord>
        <TimeZoneBias>600</TimeZoneBias>
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        <TimeZoneDisplayName>(UTC+10:00) Magadan</TimeZoneDisplayName>
        <TimeZoneID>Magadan Standard Time</TimeZoneID>
        <TimeZoneStandardName>Magadan Standard Time</TimeZoneStandardName>
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    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>600</TimeZoneBias>
        <TimeZoneDaylightName>Russia TZ 9 Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+10:00) Vladivostok, Magadan (RTZ 9)</TimeZoneDisplayName>
        <TimeZoneID>Vladivostok Standard Time</TimeZoneID>
        <TimeZoneStandardName>Russia TZ 9 Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>660</TimeZoneBias>
        <TimeZoneDaylightName>Russia TZ 10 Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+11:00) Chokurdakh (RTZ 10)</TimeZoneDisplayName>
        <TimeZoneID>Russia Time Zone 10</TimeZoneID>
        <TimeZoneStandardName>Russia TZ 10 Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>660</TimeZoneBias>
        <TimeZoneDaylightName>Central Pacific Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+11:00) Solomon Is., New Caledonia</TimeZoneDisplayName>
        <TimeZoneID>Central Pacific Standard Time</TimeZoneID>
        <TimeZoneStandardName>Central Pacific Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>720</TimeZoneBias>
        <TimeZoneDaylightName>Russia TZ 11 Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+12:00) Anadyr, Petropavlovsk-Kamchatsky (RTZ 11)
    </TimeZoneDisplayName>
        <TimeZoneID>Russia Time Zone 11</TimeZoneID>
        <TimeZoneStandardName>Russia TZ 11 Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>720</TimeZoneBias>
        <TimeZoneDaylightName>New Zealand Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+12:00) Auckland, Wellington</TimeZoneDisplayName>
        <TimeZoneID>New Zealand Standard Time</TimeZoneID>
        <TimeZoneStandardName>New Zealand Standard Time</TimeZoneStandardName>

```

```

        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>720</TimeZoneBias>
        <TimeZoneDaylightName>UTC+12</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+12:00) Coordinated Universal
Time+12</TimeZoneDisplayName>
        <TimeZoneID>UTC+12</TimeZoneID>
        <TimeZoneStandardName>UTC+12</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
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        <TimeZoneBias>720</TimeZoneBias>
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        <TimeZoneDisplayName>(UTC+12:00) Fiji</TimeZoneDisplayName>
        <TimeZoneID>Fiji Standard Time</TimeZoneID>
        <TimeZoneStandardName>Fiji Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>720</TimeZoneBias>
        <TimeZoneDaylightName>Kamchatka Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+12:00) Petropavlovsk-Kamchatsky -
Old</TimeZoneDisplayName>
        <TimeZoneID>Kamchatka Standard Time</TimeZoneID>
        <TimeZoneStandardName>Kamchatka Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>780</TimeZoneBias>
        <TimeZoneDaylightName>Tonga Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+13:00) Nuku'alofa</TimeZoneDisplayName>
        <TimeZoneID>Tonga Standard Time</TimeZoneID>
        <TimeZoneStandardName>Tonga Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>780</TimeZoneBias>
        <TimeZoneDaylightName>Samoa Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+13:00) Samoa</TimeZoneDisplayName>
        <TimeZoneID>Samoa Standard Time</TimeZoneID>
        <TimeZoneStandardName>Samoa Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
    <TimeZoneRecord>
        <TimeZoneBias>840</TimeZoneBias>
        <TimeZoneDaylightName>Line Islands Daylight Time</TimeZoneDaylightName>
        <TimeZoneDisplayName>(UTC+14:00) Kiritimati Island</TimeZoneDisplayName>
        <TimeZoneID>Line Islands Standard Time</TimeZoneID>
        <TimeZoneStandardName>Line Islands Standard Time</TimeZoneStandardName>
        <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
    </TimeZoneRecord>
</RESPONSE AVAILABLE_TIME_ZONE_QUERY>
</CentranXMLScript>

```

2.2.1 Lock XML File Transactions - Dispatch Lock

CenTran Programming Reference Manual

This transaction dispatches or assigns an FLM mode lock, or dispatches a Route mode lock. The User ID(s) supplied here must be of the same type as the lock mode being dispatched. That is, if dispatching a call for an "F" lock mode, the ID(s) would be for FLM(s). If dispatching a call for an "R" lock mode, the ID(s) would be for RSPs. Also, if dispatching an "F" lock mode, you may specify that this is a second line maintenance call. A value of "1" or "true" in the "IfSecondLineMaintenance" field indicates a second line maintenance call.

Transaction information required:

- Lock Name or Serial Number - The name or serial number of the lock to be dispatched.
- Lock Mode - The mode of the lock to be dispatched.
- 1st FLM/Route User ID
- 2nd FLM/Route User ID - If lock is not in dual mode, this field's value can be left blank.
- If Second Line Maintenance Call - Specifies if this is a second line maintenance call.
- Dispatcher ID (Optional) - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the entire lock record including last dispatch and combination(s).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Lock doesn't exist.
- Lock is already open.
- Invalid FLM / Route User(s).
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.
- Invalid record type - the lock is not in Active or Install or Pending Shelve modes.
- Group ID mismatch - FLM/RSP not authorized to open the lock.
- User1 ID or User2 ID not found.
- User ID is not a field ID (i.e. ID is a Dispatcher, Supervisor, etc.)
- Dual mode - user time window mismatch (one user has time windows, one user does not).
- User 1 ID and User 2 ID are the same.
- User 1 ID or User 2 is not the same mode as the lock.
- Input transaction file has validation errors against the schema or the required input fields have an empty or invalid value.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_DISPATCH_LOCK>
  <!-- Lock Name-->
  <LockName>VLK016</LockName>
  <!-- Lock Mode-->
  <LockMode>R</LockMode>
  <!-- 1st FLM/RSP ID-->
  <User1ID>rjrb1</User1ID>
  <!-- 2nd FLM/RSP ID -->
  <User2ID>rjrb2</User2ID>
  <!-- Dispatcher ID-->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DISPATCH_LOCK>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_DISPATCH_LOCK), a result record (indicating success) and the lock record retrieved after lock dispatch. The lock record includes information on the last dispatch and combination. Any lock record retrieved from CenTran always excludes sensitive fields like the Base Combo fields, Master Combo fields, Lock Communications Key etc.

Note: The returned combinations are in fields IssuedComboUser1Seq1 and IssuedComboUser2Seq1 of the lock record.

```
<RESPONSE_DISPATCH_LOCK>
  <TRANSACTION_DISPATCH_LOCK xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <LockName>VLK016</LockName>
    <LockMode>R</LockMode>
    <User1ID>rjrb1</User1ID>
    <User2ID>rjrb2</User2ID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>The lock dispatch succeeded.</Description>
  </ResultRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK016</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:18:27</StartDate>
    <LastUsedDate>2009-02-12T17:43:40</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
```

```

<IfDualMode>1</IfDualMode>
<IfLockOpen>1</IfLockOpen>
<IfForcedClosed>0</IfForcedClosed>
<IfRoute1Issued>0</IfRoute1Issued>
<IfRoute2Issued>0</IfRoute2Issued>
<IfRoute3Issued>0</IfRoute3Issued>
<IfNoAlarm>0</IfNoAlarm>
<IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
<IfActivationCall>0</IfActivationCall>
<SerialNumber>532016</SerialNumber>
<CloseSeal>132</CloseSeal>
<PreviousSeal>67</PreviousSeal>
<RouteSeal1>132</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>147</PreviousRouteSeal1>
<PreviousRouteSeal2>67</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>307087</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>275162</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>8573</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>729333</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>219975</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>930736</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>15</AuditCount>
<GroupName />
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>0</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rjrb1</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1>rjrb2</User2ID1>
<User2ID2 />
<User2ID3 />
<RouteName1 />
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-12T17:43:40.254Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rbob</PreviousUser1ID1>
<PreviousUser1ID2>rbob</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1>rdave</PreviousUser2ID1>
<PreviousUser2ID2>rdave</PreviousUser2ID2>
<PreviousUser2ID3 />
<PreviousRouteName1>TestRoute1</PreviousRouteName1>
<PreviousRouteName2>TestRoute1</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2005-02-22T13:50:15.563Z</PreviousOpenTime1>
<PreviousOpenTime2>2005-02-22T13:50:16.897Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2005-02-22T14:41:44.356Z</PreviousCloseTime1>
<PreviousCloseTime2>2005-02-22T14:41:45.906Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />

```

```

    <BankBranchName />
    <BankOpenDelay>0</BankOpenDelay>
    <BankOpenWindow>0</BankOpenWindow>
    <LockActivationStatus />
    <LockDispatchStatus />
  </LockRecord>
</RESPONSE_DISPATCH_LOCK>

```

Example 2 - Failure

Input Transaction:

```

<TRANSACTION_DISPATCH_LOCK>
  <!-- Lock Name-->
  <LockName>VLK016</LockName>
  <!-- Lock Mode-->
  <LockMode>R</LockMode>
  <!-- 1st FLM/RSP ID-->
  <User1ID>rjrb1</User1ID>
  <!-- 2nd FLM/RSP ID -->
  <User2ID>rjrb2</User2ID>
  <!-- Dispatcher ID-->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DISPATCH_LOCK>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_DISPATCH_LOCK), a result record indicating failure with an error code (RC_ERR_LOCK_ALREADY_OPEN) and description.

```

<RESPONSE_DISPATCH_LOCK>
  <TRANSACTION_DISPATCH_LOCK xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <LockName>VLK016</LockName>
    <LockMode>R</LockMode>
    <User1ID>rjrb1</User1ID>
    <User2ID>rjrb2</User2ID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_LOCK>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_LOCK_ALREADY_OPEN</ErrorCode>
    <Description>The lock is already open. You can not dispatch to an already open lock.
      You may want to reassign the users already dispatched to the lock.</Description>
  </ResultRecord>
</RESPONSE_DISPATCH_LOCK>

```

Example 3 (Result = Failure)

Input Transaction:

```

<TRANSACTION_DISPATCH_LOCK>
  <!-- char string -->
  <LockName>123456789012345678901234567890123456789012345678901234567890
123456789012345</LockName>
  <!-- char string -->
  <LockMode>T</LockMode>
  <!-- char string -->
  <User1ID>fjrb1</User1ID>
  <!-- char string -->
  <User2ID></User2ID>
  <!--boolean-->
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DISPATCH_LOCK>

```

Output Transaction:

Here the input transaction has elements with values that do not conform to the restrictions imposed on those values by the XML schema. This causes some validation errors and CenTran returns the appropriate error code (RC_ERR_FAILED_VALIDATE_FILE) and a description of those validation errors (lock name exceeds 64 characters and value "T" is invalid for lock mode).

```

<RESPONSE_DISPATCH_LOCK>
  <TRANSACTION_DISPATCH_LOCK xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <LockName>12345678901234567890123456789012345678901234567890123456789
0123456789012345</LockName>
    <LockMode>T</LockMode>
    <User1ID>fjrb1</User1ID>
    <User2ID></User2ID>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_LOCK>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FAILED_VALIDATE_FILE</ErrorCode>
    <Description>Error validating C:\CentranInput\Single trans input.xml:
      1) Validation ERROR: The 'http://www.kaba-mas.com/CentranTransac.xsd:LockName'
        element is invalid - The value
        '12345678901234567890123456789012345678901234567890123456789012345'
        is invalid according to its datatype 'http://www.kaba-
        mas.com/CentranTransac.xsd:String64' - The
        actual length is greater than the MaxLength value.
    </Description>
  </ResultRecord>
</RESPONSE_DISPATCH_LOCK>

```

```
2) Validation ERROR: The 'http://www.kaba-mas.com/CentranTransac.xsd:LockMode'  
element is invalid - The value 'T' is invalid according to its datatype  
'http://www.kaba-mas.com/CentranTransac.xsd:LockModeType'- The Enumeration  
constraint failed.  
</Description>  
</ResultRecord>  
</RESPONSE_DISPATCH_LOCK>
```

2.2.2 Lock XML File Transactions - Reassign Lock

CenTran Programming Reference Manual

This function reassigns or assigns an outstanding call on a single lock (in FLM/Route mode) to a different FLM or RSP. This transaction corresponds to the "Reassign" option on the Operations menu of a lock report in the CENCON Dispatching System. It is used when an FLM or RSP has a combination to open a lock but cannot make the call for some reason. A new combination is issued to the new FLM or RSP.

Transaction information required:

- Lock Name or Serial Number - The name or serial number of the lock to be reassigned.
- Lock Mode - The mode of the lock to be reassigned.
- 1st FLM/Route User ID
- 2nd FLM/Route User ID - If lock is not in dual mode, this field's value can be left blank.
- Lock Sequence (Optional) - If the lock has been dispatched on a route, then a valid lock sequence must be specified. In case of an FLM mode lock or a Route mode lock not dispatched on a route, this field can be left out.
- Dispatcher ID (Optional) - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the entire lock record including last dispatch and combination(s).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Lock doesn't exist.
- Lock is not open.
- Invalid FLM/Route User(s).
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.
- Group ID mismatch - FLM/RSP not authorized to open the lock.
- User1 ID or User2 ID not found.
- User ID is not a field ID (i.e. ID is a Dispatcher, Supervisor, etc.)
- Dual mode - user time window mismatch (one user has time windows, one user does not).
- User 1 ID and User 2 ID are the same.
- User 1 ID or User 2 is not the same mode as the lock.
- Input transaction file has validation errors against the schema or the required input fields have an empty or invalid value.

Example 1 - Success

Input Transaction:

```
<TRANSACTION REASSIGN_LOCK>
  <!-- Lock Name-->
  <LockName>VLK016</LockName>
  <!-- Lock Mode-->
  <LockMode>R</LockMode>
  <!-- 1st FLM/RSP ID-->
  <User1ID>rjrb1</User1ID>
  <!-- 2nd FLM/RSP ID -->
  <User2ID>rjrb2</User2ID>
  <!-- Dispatcher ID-->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_REASSIGN_LOCK>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_REASSIGN_LOCK), a result record (indicating success) and the lock record retrieved after lock has been reassigned.

Note: The returned combinations are in fields IssuedComboUser1Seq1 and IssuedComboUser2Seq1 of the lock record.

```
<RESPONSE REASSIGN_LOCK>
  <TRANSACTION REASSIGN_LOCK xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <LockName>VLK016</LockName>
    <LockMode>R</LockMode>
    <User1ID>rjrb1</User1ID>
    <User2ID>rjrb2</User2ID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_REASSIGN_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>The lock reassign succeeded.</Description>
  </ResultRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK016</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:18:27</StartDate>
    <LastUsedDate>2009-02-12T17:43:40</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>1</IfDualMode>
    <IfLockOpen>1</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>0</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532016</SerialNumber>
    <CloseSeal>132</CloseSeal>
    <PreviousSeal>67</PreviousSeal>
    <RouteSeal1>132</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
```



```

<PreviousRouteSeal1>147</PreviousRouteSeal1>
<PreviousRouteSeal2>67</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>579901</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>986190</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>8573</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>729333</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>219975</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>930736</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>15</AuditCount>
<GroupName />
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>0</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1>rzjack</User2ID1>
<User2ID2 />
<User2ID3 />
<RouteName1 />
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-12T17:43:40.986Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rbob</PreviousUser1ID1>
<PreviousUser1ID2>rbob</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1>rdave</PreviousUser2ID1>
<PreviousUser2ID2>rdave</PreviousUser2ID2>
<PreviousUser2ID3 />
<PreviousRouteName1>TestRoute1</PreviousRouteName1>
<PreviousRouteName2>TestRoute1</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2005-02-22T13:50:15.098Z</PreviousOpenTime1>
<PreviousOpenTime2>2005-02-22T13:50:16.789Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2005-02-22T14:41:44.904Z</PreviousCloseTime1>
<PreviousCloseTime2>2005-02-22T14:41:45.543Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</RESPONSE_REASSIGN_LOCK>

```

Example 2 - Failure

Input Transaction:

```

<TRANSACTION_REASSIGN_LOCK>
  <!-- char string -->
  <LockName>VLK016</LockName>
  <!-- char string -->
  <LockMode>R</LockMode>
  <!-- char string -->
  <User1ID>rzjill</User1ID>
  <!-- char string -->
  <User2ID>rjrb6</User2ID>

```



```
<!-- char string -->
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_REASSIGN_LOCK>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_REASSIGN_LOCK), a result record indicating failure with an error code (RC_ERR_FLMID_REGION_DOES_NOT_MATCH_LOCK_REGION) and description. Here the user rjrb6's region does not match the lock's region.

```
<RESPONSE_REASSIGN_LOCK>
  <TRANSACTION_REASSIGN_LOCK xmlns="http://kaba-mas.com/CentranTransaction">
    <LockName>VLK016</LockName>
    <LockMode>R</LockMode>
    <User1ID>rzjill</User1ID>
    <User2ID>rjrb6</User2ID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_REASSIGN_LOCK>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FLMID_REGION_DOES_NOT_MATCH_LOCK_REGION</ErrorCode>
    <Description>The lock reassign failed. FLM/RSP User Region does not match Lock Region
  </Description>
  </ResultRecord>
</RESPONSE_REASSIGN_LOCK>
```

2.2.3 Lock XML File Transactions - Unassign Lock

CenTran Programming Reference Manual

This transaction unassigns one or both users from an FLM mode lock. This option is designed for use when a user has accidentally been dispatched to the wrong lock and must be freed up to service the correct lock.

Transaction information required:

- Lock Name or Serial Number - The name or serial number of the lock to which the users are currently assigned.
- Lock Mode (must be FLM).
- Dispatcher ID (Optional) - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the unassigned lock record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Lock doesn't exist.
- Lock is not open.
- Lock is already unassigned.
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.
- Input transaction file has validation errors against the schema or the required input fields have an empty or invalid value.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_UNASSIGN_LOCK>
  <!-- Lock Name-->
  <LockName>VLK016</LockName>
  <!-- Lock Mode-->
  <LockMode>F</LockMode>
  <!-- Dispatcher ID-->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UNASSIGN_LOCK>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_UNASSIGN_LOCK), a result record (indicating success) and the lock record retrieved after the lock has been unassigned.

```
<RESPONSE_UNASSIGN_LOCK>
  <TRANSACTION_UNASSIGN_LOCK xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <LockName>VLK016</LockName>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UNASSIGN_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>The lock unassign succeeded. The unassigned users: fjrb6</Description>
  </ResultRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK016</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:18:13</StartDate>
    <LastUsedDate>2009-02-12T23:53:04</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>0</IfDualMode>
    <IfLockOpen>1</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>0</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532016</SerialNumber>
    <CloseSeal>35</CloseSeal>
    <PreviousSeal>137</PreviousSeal>
    <RouteSeal1>35</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>137</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>828495</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
```

```

<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>319051</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>2</AuditCount>
<GroupName />
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>1</IfUnassignedOpenCall>
<IfLastRoute1Issued>0</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1 />
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1 />
<RouteName2 />
<RouteName3 />
<DispatcherID1>MHG\agoverdhan</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-12T23:53:04.432Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>0</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>fdave</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1 />
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2002-11-01T21:21:25.842Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2003-01-08T16:47:09.127Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</RESPONSE_UNASSIGN_LOCK>

```

Example 2 - Failure

Input Transaction:

```

<TRANSACTION_UNASSIGN_LOCK>
  <!-- Lock Name-->
  <LockName>VLK014</LockName>
  <!-- Lock Mode-->
  <LockMode>F</LockMode>
  <!-- Dispatcher ID-->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UNASSIGN_LOCK>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_UNASSIGN_LOCK), a result record indicating failure with an error code (RC_ERR_LOCK_NOT_OPEN) and description.

```
<RESPONSE_UNASSIGN_LOCK>
  <TRANSACTION_UNASSIGN_LOCK xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <LockName>VLK014</LockName>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UNASSIGN_LOCK>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_LOCK_NOT_OPEN</ErrorCode>
    <Description>The lock unassign failed. Lock not open.</Description>
  </ResultRecord>
</RESPONSE_UNASSIGN_LOCK>
```

2.2.4 Lock XML File Transactions - Close Lock

CenTran Programming Reference Manual

This transaction is used to enter a close seal to close an FLM or Route mode lock. There is also an option to force close a lock on a skipped route sequence. The return transaction indicates whether the lock has been closed.

Transaction information required:

- Lock Name or Serial Number – The name or serial number of the lock to be closed.
- Lock Mode – The mode of the lock to be closed.
- Close Seal – The close seal number for the lock.
- If Forced Closed (Optional) – If the lock is forced closed, the field's value can be set to '1' or 'true'.
- Lock Sequence (Optional) – If the lock has been dispatched on a route, then a valid lock sequence must be specified. In case of an FLM mode lock or a Route mode lock not dispatched on a route, this field can be left out.
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description), the entire lock record retrieved after the lock has been closed and information on the close seal. There are two fields which contain information on the close seal - IfCloseSealDuress (indicates duress if set to true), IfCloseSealLowBattery (indicates low battery or clock set required if set to true). If neither of these fields is set to true, the close seal is normal.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Lock doesn't exist.
- Lock is not open.
- Incorrect close seal.
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.
- Attempt to force close a lock not on a skipped route sequence.
- Invalid number of close attempts.
- Lock is open but unassigned.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_CLOSE_LOCK>
  <!-- Lock Name-->
  <LockName>VLK016</LockName>
  <!-- Lock Mode-->
  <LockMode>R</LockMode>
  <!-- Close Seal -->
  <CloseSeal>94</CloseSeal>
  <!-- Dispatcher ID-->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_CLOSE_LOCK>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_CLOSE_LOCK), a result record (indicating success), the lock record retrieved after lock close and two fields IfCloseSealDuress, IfCloseSealLowBattery indicating if the close seal is a duress, low battery/clock set seal. In this case, the close seal is a duress seal.

```
<RESPONSE_CLOSE_LOCK>
  <TRANSACTION_CLOSE_LOCK xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <LockName>VLK016</LockName>
    <LockMode>R</LockMode>
    <CloseSeal>94</CloseSeal>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CLOSE_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock close succeeded.</Description>
  </ResultRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK016</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:18:27</StartDate>
    <LastUsedDate>2009-02-13T17:18:41</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>1</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>0</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532016</SerialNumber>
    <CloseSeal>132</CloseSeal>
    <PreviousSeal>67</PreviousSeal>
    <RouteSeal1>132</RouteSeal1>
```

```

<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>147</PreviousRouteSeal1>
<PreviousRouteSeal2>67</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>579901</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>986190</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>8573</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>729333</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>219975</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>930736</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>16</AuditCount>
<GroupName />
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>0</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1>rzjack</User2ID1>
<User2ID2 />
<User2ID3 />
<RouteName1 />
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-12T17:43:40.234Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-02-13T17:18:41.234Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rbob</PreviousUser1ID1>
<PreviousUser1ID2>rbob</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1>rdave</PreviousUser2ID1>
<PreviousUser2ID2>rdave</PreviousUser2ID2>
<PreviousUser2ID3 />
<PreviousRouteName1>TestRoute1</PreviousRouteName1>
<PreviousRouteName2>TestRoute1</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2005-02-22T13:50:15.234Z</PreviousOpenTime1>
<PreviousOpenTime2>2005-02-22T13:50:16.342Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2005-02-22T14:41:44.234Z</PreviousCloseTime1>
<PreviousCloseTime2>2005-02-22T14:41:45.563Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
<IfCloseSealDuress>1</IfCloseSealDuress>
<IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RESPONSE_CLOSE_LOCK>

```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_CLOSE_LOCK>
  <!-- Lock Name-->
  <LockName>VLK016</LockName>
  <!-- Lock Mode-->
  <LockMode>F</LockMode>
  <!-- Close Seal -->
  <CloseSeal>49</CloseSeal>
  <!-- Dispatcher ID-->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_CLOSE_LOCK>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_CLOSE_LOCK), a result record indicating failure with an error code (RC_ERR_CLOSE_LOCK_SEAL_MISMATCH) and description.

```
<RESPONSE_CLOSE_LOCK>
  <TRANSACTION_CLOSE_LOCK xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <LockName>VLK016</LockName>
    <LockMode>F</LockMode>
    <CloseSeal>94</CloseSeal>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CLOSE_LOCK>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_CLOSE_LOCK_SEAL_MISMATCH</ErrorCode>
    <Description>Lock close failed. Seal numbers do not match for lock close.</Description>
  </ResultRecord>
</RESPONSE_CLOSE_LOCK>
```

2.2.5 Lock XML File Transactions - Read Lock Data

CenTran Programming Reference Manual

This transaction reads data for an FLM, Route, or Bank mode lock.

Transaction information required:

- Lock Name or Serial Number - The name or serial number of the lock to be read.
- Lock Mode - The mode of the lock to be read.
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the entire lock record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Lock doesn't exist.
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.

LockRecord:

LockRecordType	This record type contains lock data from the Cencon system.
<i>LockName</i>	Name of the lock. The combination of (lock name/lock mode) or (lock serial number/lock mode) can be used to uniquely identify a lock.
<i>RecordType</i>	Type of record for the lock. This can be one of the following values: <i>D</i> The lock is deleted (shelved). <i>A</i> The lock is active. <i>P</i> The lock is pending shelf. <i>I</i> The lock has been installed, but never dispatched. Applies to FLM, Route mode locks only. <i>R</i> The lock has been replaced. Note: Lock records for replaced locks are now moved to the lock history table. This is a change from version 3 to version 4 of Cencon.
<i>StartDate</i>	Date the lock was added to the Cencon system. Time is in coordinated universal time.
<i>LastUsedDate</i>	Last date an operation was done with the lock from the Cencon system. Time is in coordinated universal time.
<i>CustomerNumber</i>	Internal number used with security of the lock. Note: No longer used to reference customer information.
<i>LockMode</i>	Mode of the lock. This can be one of the following values: <i>F</i> FLM (First Line Maintenance) <i>R</i> Route <i>B</i> Bank
<i>IfDualMode</i>	Flag indicating the lock requires two users to open the lock.
<i>SerialNumber</i>	Serial number of the lock. The combination of (lock name/lock mode) or (lock serial number/lock mode) can be used to uniquely identify the lock.
<i>AuditCount</i>	Number of dispatches for this mode of the lock. Applies to FLM and Route mode only.
<i>IfLockOpen</i>	Flag indicating the lock is open on a single dispatch.
<i>IfForcedClosed</i>	Flag indicating the lock was last closed in the Cencon system without a valid close seal from the lock.
<i>IfRoute1Issued</i>	Flag indicating the lock is open on a route dispatch for lock sequence 1.
<i>IfRoute2Issued</i>	Flag indicating the lock is open on a route dispatch for lock sequence 2.
<i>IfRoute3Issued</i>	Flag indicating the lock is open on a route dispatch for lock sequence 3.
<i>IfNoAlarm</i>	Flag indicating that an alert is not required for the lock being open too long.
<i>IfSecondLineMaintenanceCall</i>	Flag indicating the lock has been dispatched on a second line maintenance call, and may be open for a long period of time.
<i>IfActivationCall</i>	Flag indicating the lock is dispatched as part of the process of activating the lock.
<i>IfUnassignedOpenCall</i>	Flag indicating the lock was dispatched and then the users were unassigned from the dispatch. Applies to FLM only. Unassign is used as a work around when a customer dispatches an FLM lock to the wrong people.
<i>Seal</i>	Close seal expected from the lock for a single dispatch. Encrypted value in database.
<i>PreviousSeal</i>	Previous close seal expected from the lock for a single dispatch. Encrypted value in database.
<i>RouteSeal1</i>	Close seal expected from the lock for a route lock sequence 1. Encrypted value in database.
<i>RouteSeal2</i>	Close seal expected from the lock for a route lock sequence 2. Encrypted value in database.
<i>RouteSeal3</i>	Close seal expected from the lock for a route lock sequence 3. Encrypted value in database.
<i>PreviousRouteSeal1</i>	Close seal expected from the lock for a previous route lock sequence 1. Encrypted value in database.
<i>PreviousRouteSeal2</i>	Close seal expected from the lock for a previous route lock sequence 2. Encrypted value in database.

<i>PreviousRouteSeal3</i>	Close seal expected from the lock for a previous route lock sequence 3. Encrypted value in database.
<i>OpenTries1</i>	Number of failed tries to close the lock with incorrect close seals for route lock sequence 1.
<i>OpenTries2</i>	Number of failed tries to close the lock with incorrect close seals for route lock sequence 2.
<i>OpenTries3</i>	Number of failed tries to close the lock with incorrect close seals for route lock sequence 3.
<i>TransferReturnCode</i>	Return code for lock being transfered to another Cencon system. Currently not in use.
<i>IssuedComboUser1Seq1</i>	Combination issued for lock for user 1, either for route sequence 1 or issued for single dispatch.
<i>IssuedComboUser1Seq2</i>	Combination issued for lock for user 1 for route sequence 2. Invalid if not dispatched on a route.
<i>IssuedComboUser1Seq3</i>	Combination issued for lock for user 1 for route sequence 3. Invalid if not dispatched on a route.
<i>IssuedComboUser2Seq1</i>	Combination issued for lock for user 2, either for route sequence 1 or issued for single dispatch.
<i>IssuedComboUser2Seq2</i>	Combination issued for lock for user 2 for route sequence 2. Invalid if not dispatched on a route.
<i>IssuedComboUser2Seq3</i>	Combination issued for lock for user 2 for route sequence 3. Invalid if not dispatched on a route.
<i>PreviousComboUser1Seq1</i>	Previous combination issued for lock for user 1, either for route sequence 1 or issued for single dispatch.
<i>PreviousComboUser1Seq2</i>	Previous combination issued for lock for user 1 for route sequence 2. Invalid if not dispatched on a route.
<i>PreviousComboUser1Seq3</i>	Previous combination issued for lock for user 1 for route sequence 3. Invalid if not dispatched on a route.
<i>PreviousComboUser2Seq1</i>	Previous combination issued for lock for user 2, either for route sequence 1 or issued for single dispatch.
<i>PreviousComboUser2Seq2</i>	Previous combination issued for lock for user 2 for route sequence 2. Invalid if not dispatched on a route.
<i>PreviousComboUser2Seq3</i>	Previous combination issued for lock for user 2 for route sequence 3. Invalid if not dispatched on a route.
<i>GroupName</i>	Group name for lock. Used with group access control to determine what users can be dispatched to the lock.
<i>OriginalSerialNumber</i>	Original serial number for lock if this lock was used as a replacement.
<i>Description1</i>	Decription text for lock. The label displayed in Cencon for this field may be different, and can be set in Cencon preferences for reports.
<i>Description2</i>	Decription text for lock. The label displayed in Cencon for this field may be different, and can be set in Cencon preferences for reports.
<i>Description3</i>	Decription text for lock. The label displayed in Cencon for this field may be different, and can be set in Cencon preferences for reports..
<i>Description4</i>	Decription text for lock. The label displayed in Cencon for this field may be different, and can be set in Cencon preferences for reports.
<i>CustomerID</i>	Customer ID associated with the lock. This ID has to be a valid entry in the database customer table.
<i>ATMSerialNumber</i>	ATM serial number text for lock.
<i>UserDefined1</i>	User defined decription text for lock. The label displayed in Cencon for this field may be different, and can be set in Cencon preferences for reports.
<i>UserDefined2</i>	User defined decription text for lock. The label displayed in Cencon for this field may be different, and can be set in Cencon preferences for reports.
<i>UserDefined3</i>	User defined decription text for lock. The label displayed in Cencon for this field may be different, and can be set in Cencon preferences for reports.
<i>UserDefined4</i>	User defined decription text for lock. The label displayed in Cencon for this field may be different, and can be set in Cencon preferences for reports.
<i>Region</i>	Region set for the lock. This must be a valid entry in the database region table. Used to restrict who can access the lock if region control is active.
<i>IfLastRoute1Issued</i>	Flag indicating lock was dispatched for route lock sequence 1.
<i>IfLastRoute2Issued</i>	Flag indicating lock was dispatched for route lock sequence 2.
<i>IfLastRoute3Issued</i>	Flag indicating lock was dispatched for route lock sequence 3.
<i>User1ID1</i>	First User ID that lock was dispatched for route lock sequence 1.
<i>User1ID2</i>	First User ID that lock was dispatched for route lock sequence 2.
<i>User1ID3</i>	First User ID that lock was dispatched for route lock sequence 3.
<i>User2ID1</i>	Second User ID that lock was dispatched for route lock sequence 1.
<i>User2ID2</i>	Second User ID that lock was dispatched for route lock sequence 2.
<i>User2ID3</i>	Second User ID that lock was dispatched for route lock sequence 3.
<i>RouteName1</i>	Route that lock was dispatched for route lock sequence 1.
<i>RouteName2</i>	Route that lock was dispatched for route lock sequence 2.
<i>RouteName3</i>	Route that lock was dispatched for route lock sequence 3.
<i>DispatcherID1</i>	Dispatcher that dispatched lock for route lock sequence 1.
<i>DispatcherID2</i>	Dispatcher that dispatched lock for route lock sequence 2.
<i>DispatcherID3</i>	Dispatcher that dispatched lock for route lock sequence 3.

<i>OpenTime1</i>	Time that lock was dispatched for route lock sequence 1. Time is in coordinated universal time.
<i>OpenTime2</i>	Time that lock was dispatched for route lock sequence 2. Time is in coordinated universal time.
<i>OpenTime3</i>	Time that lock was dispatched for route lock sequence 3. Time is in coordinated universal time.
<i>CloseTime1</i>	Time that lock was closed for route lock sequence 1. Time is in coordinated universal time.
<i>CloseTime2</i>	Time that lock was closed for route lock sequence 2. Time is in coordinated universal time.
<i>CloseTime3</i>	Time that lock was closed for route lock sequence 3. Time is in coordinated universal time.
<i>IfPreviousRoute1Issued</i>	Flag that lock was previously issued to route lock sequence 1.
<i>IfPreviousRoute2Issued</i>	Flag that lock was previously issued to route lock sequence 2.
<i>IfPreviousRoute3Issued</i>	Flag that lock was previously issued to route lock sequence 3.
<i>PreviousUser1ID1</i>	Previous first user id dispatched to route lock sequence 1.
<i>PreviousUser1ID2</i>	Previous first user id dispatched to route lock sequence 2.
<i>PreviousUser1ID3</i>	Previous first user id dispatched to route lock sequence 3.
<i>PreviousUser2ID1</i>	Previous second user id dispatched to route lock sequence 1.
<i>PreviousUser2ID2</i>	Previous second user id dispatched to route lock sequence 2.
<i>PreviousUser2ID3</i>	Previous second user id dispatched to route lock sequence 3.
<i>PreviousRouteName1</i>	Previous route that lock was dispatched on for route lock sequence 1.
<i>PreviousRouteName2</i>	Previous route that lock was dispatched on for route lock sequence 2.
<i>PreviousRouteName3</i>	Previous route that lock was dispatched on for route lock sequence 3.
<i>PreviousOpenTime1</i>	Previous time that lock was dispatched to route lock sequence 1. Time is in coordinated universal time.
<i>PreviousOpenTime2</i>	Previous time that lock was dispatched to route lock sequence 2. Time is in coordinated universal time.
<i>PreviousOpenTime3</i>	Previous time that lock was dispatched to route lock sequence 3. Time is in coordinated universal time.
<i>PreviousCloseTime1</i>	Previous time that lock was closed on route lock sequence 1. Time is in coordinated universal time.
<i>PreviousOpenTime2PreviousCloseTime2</i>	Previous time that lock was closed on route lock sequence 2. Time is in coordinated universal time.
<i>PreviousCloseTime3</i>	Previous time that lock was closed on route lock sequence 3. Time is in coordinated universal time.
<i>ServiceBranch</i>	Text description for service branch lock is assigned to.
<i>Address1</i>	Text description for lock address.
<i>Address2</i>	Text description for lock address.
<i>City</i>	Text description for lock address city.
<i>State</i>	Text description for lock address state.
<i>ZIP</i>	Text description for lock address postal service code.
<i>Country</i>	Text description for lock address country.
<i>KeyCloseSeal</i>	Close seal information used to identify status of lock for reissuing red SA key for Activation.
<i>BankBranchName</i>	Bank branch name lock is assigned to. Applies to bank mode locks only.
<i>BankOpenDelay</i>	Delay before lock is allowed to open. Applies to bank mode locks only.
<i>BankOpenWindow</i>	Period of seconds that lock will be allowed to be opened after open delay. Applies to bank mode locks only.
<i>LockHardwareModel</i>	Field to indicate model of lock. Not in current use. Model of lock is indicated by lock serial number range between the Cencon Gen 1 and Gen 2 lock.
<i>LockActivationStatus</i>	Field indicating if Cencon Gen 2 lock is activated in compatibility mode for Cencon Gen 1.
<i>LockDispatchStatus</i>	Field indicating if Cencon Gen 2 lock is being resynchronized.
<i>TimeZoneID</i>	The time zone a lock was set to for it's daylight savings time transition table. This is a table used to convert GMT to local time for the lock.
<i>LowBatteryDate</i>	The date and time a close seal was received indicating that the clock battery is low on a Cencon Gen 2 lock. This is cleared if a following close seal indicates the clock battery is good.
<i>DuressDate</i>	The date and time a close seal was received indicating that a duress combination was entered into a Cencon Gen 2 lock. This is cleared if a following close seal indicates that no duress combination was entered.
<i>IfLegacyImport</i>	Field indicating that the lock is an import from a legacy system. If a bank mode lock is imported from a legacy system, some security information may be unavailable.
<i>NetworkAddress</i>	The IPV4 or IPV6 network address that the lock was last accessed at. This will not be set if the lock has never been accessed remotely across a network.
<i>NetworkPort</i>	The network port that the lock was last accessed at. This will not be set if the lock has never been accessed remotely across a network.
<i>DisplayIssuedComboUser1Seq1</i>	Combination issued for lock for user 1, either for route sequence 1 or issued for single dispatch. This field is padded with zeros as needed to make it 6 characters long for ease of use by IVR systems.

<i>DisplayIssuedComboUser1Seq2</i>	Combination issued for lock for user 1 for route sequence 2. Invalid if not dispatched on a route. This field is padded with zeros as needed to make it 6 characters long for ease of use by IVR systems.
<i>DisplayIssuedComboUser1Seq3</i>	Combination issued for lock for user 1 for route sequence 3. Invalid if not dispatched on a route. This field is padded with zeros as needed to make it 6 characters long for ease of use by IVR systems.
<i>DisplayIssuedComboUser2Seq1</i>	Combination issued for lock for user 2, either for route sequence 1 or issued for single dispatch. This field is padded with zeros as needed to make it 6 characters long for ease of use by IVR systems.
<i>DisplayIssuedComboUser2Seq2</i>	Combination issued for lock for user 2 for route sequence 2. Invalid if not dispatched on a route. This field is padded with zeros as needed to make it 6 characters long for ease of use by IVR systems.
<i>DisplayIssuedComboUser2Seq3</i>	Combination issued for lock for user 2 for route sequence 3. Invalid if not dispatched on a route. This field is padded with zeros as needed to make it 6 characters long for ease of use by IVR systems.
<i>CloseSealLength</i>	The close seal length required by the lock. This will be 4 for Gen 2 activated FLM / Route mode locks. This will be 2 for Gen 1 FLM / Route mode locks and Gen 2 FLM / Route mode locks in backwards compatibility mode. This will be 0 for Bank mode locks.
<i>BankModeUserNameArray</i>	This is an array of bank mode lock user names assigned to the lock in Bank mode. If the lock is in FLM or Route mode, this array will not be set.

Example 1 - Success with dispatched FLM mode lock

Input Transaction:

```
<TRANSACTION_READ_LOCK>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_LOCK>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_READ_LOCK), a result record (indicating success) and the retrieved lock record

```
<RESPONSE_READ_LOCK>
  <TRANSACTION_READ_LOCK>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock record found in the database.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2013-01-28T18:07:12.027Z</StartDate>
    <LastUsedDate>2013-02-19T17:24:10.293Z</LastUsedDate>
    <CustomerNumber>255877</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>true</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>1</AuditCount>
    <IfLockOpen>true</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>9129</Seal>
    <PreviousSeal>21000</PreviousSeal>
    <RouteSeal1>9129</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>838800</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>717128</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
```

```

<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>nf2</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1>nf3</User2ID1>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2013-02-19T17:24:10.293Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Service Branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>21000</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.96</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1>838800</DisplayIssuedComboUser1Seq1>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1>717128</DisplayIssuedComboUser2Seq1>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_READ_LOCK>

```

Example 2 - Success with Bank mode lock

Input Transaction:

```

<TRANSACTION_READ_LOCK>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <DispatcherID>CentranSS</DispatcherID>

```

</TRANSACTION_READ_LOCK>

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_READ_LOCK), a result record (indicating success) and the retrieved lock record

```
<RESPONSE_READ_LOCK>
  <TRANSACTION_READ_LOCK>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>B</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock record found in the database.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2013-01-28T18:07:35.6Z</StartDate>
    <LastUsedDate/>
    <CustomerNumber>877983</CustomerNumber>
    <LockMode>B</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>1</AuditCount>
    <IfLockOpen>false</IfLockOpen>
    <IfForcedClosed>false</IfForcedClosed>
    <IfRoute1Issued>false</IfRoute1Issued>
    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
    <Seal>0</Seal>
    <PreviousSeal>0</PreviousSeal>
    <RouteSeal1>0</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1>Truck #1</Description1>
    <Description2>Serviced by Fred and John</Description2>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <UserDefined1>ATM Model #3</UserDefined1>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>false</IfLastRoute3Issued>
    <User1ID1/>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>
    <RouteName3/>
    <DispatcherID1/>
    <DispatcherID2/>
    <DispatcherID3/>
    <OpenTime1/>
    <OpenTime2/>
    <OpenTime3/>
    <CloseTime1/>
    <CloseTime2/>
    <CloseTime3/>
```

```

<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>6</BankOpenDelay>
<BankOpenWindow>3</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.96</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>0</CloseSealLength>
<BankModeUserNameArray>
  <UserID>BU01</UserID>
  <UserID>BU02</UserID>
  <UserID>BU03</UserID>
  <UserID>BU04</UserID>
  <UserID>BU05</UserID>
  <UserID>BU06</UserID>
</BankModeUserNameArray>
</LockRecord>
</RESPONSE_READ_LOCK>

```

Example 3 - Failure

Input Transaction:

```

<TRANSACTION_READ_LOCK>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <DispatcherID>testp</DispatcherID>
</TRANSACTION_READ_LOCK>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_READ_LOCK), a result record indicating failure with an error code (RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_LOCK_REGION) and description. In this case, the lock and dispatcher belong to different regions but since the dispatcher belongs to a local region, it can only access locks belonging to that local region.

```

<RESPONSE_READ_LOCK>
  <TRANSACTION_READ_LOCK>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>F</LockMode>
    <DispatcherID>testp</DispatcherID>
  </TRANSACTION_READ_LOCK>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_LOCK_REGION</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Dispatcher belongs to a local region. The dispatcher's region does not match the lock's region.</Description>
  </ResultRecord>
</RESPONSE_READ_LOCK>

```


2.2.6 Lock XML File Transactions - Update Lock Data

CenTran Programming Reference Manual

This transaction updates data for an FLM, Route, or Bank mode lock. The lock fields to be updated have to be specified in the input transaction. Those lock fields that are not specified in the input transaction are not changed from their current values. This operation updates a single specific lock, specified by Lock Name and Mode or Lock Serial Number and Mode. There is not an option to apply the updated values to all modes of a lock, as is available under the Cencon application.

Transaction information required:

- Lock Name or Serial Number – The name or serial number of the lock to be updated.
- Lock Mode – The mode of the lock to be updated.
- Group Name (Optional) – The new value for this field
- Customer ID (Optional) – The new value for this field
- ATM Serial Number (Optional) – The new value for this field
- Description 1-4 (Optional) – The new value for these fields
- User Defined 1-4 (Optional) – The new value for these fields
- Region (Optional) – The new value for this field
- Service Branch (Optional) – The new value for this field
- Address 1 (Optional) – The new value for this field
- Address 2 (Optional) – The new value for this field
- City (Optional) – The new value for this field
- State (Optional) – The new value for this field
- ZIP (Optional) – The new value for this field
- Country (Optional) – The new value for this field
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the updated lock record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Lock doesn't exist.
- Invalid Customer ID (Customer ID not found in database).
- Invalid Region (Region not found in database)
- Invalid Group Name (Group Name cannot have embedded blanks and can only have 2, 4 or 6 characters).
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.
- Input transaction file has validation errors against the schema or the required input fields have an empty or invalid value.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_UPDATE_LOCK>
<UpdateLockRecord>
  <!-- Lock Name-->
  <LockName>LckNoGID</LockName>
  <!-- Lock Mode-->
  <LockMode>F</LockMode>
  <!-- New Customer ID -->
  <CustomerID>ACustomer</CustomerID>
  <!-- New Address2 -->
  <Address2>HartFord, CT</Address2>
</UpdateLockRecord>
<!-- Dispatcher ID -->
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_LOCK>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_UPDATE_LOCK), a result record (indicating success) and the updated lock record with new Customer ID and Address 2 values.

```
<RESPONSE_UPDATE_LOCK>
<TRANSACTION_UPDATE_LOCK xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
  <UpdateLockRecord>
    <LockName>LckNoGID</LockName>
    <LockMode>F</LockMode>
    <CustomerID>ACustomer</CustomerID>
    <Address2>HartFord, CT</Address2>
  </UpdateLockRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_LOCK>
<ResultRecord>
  <Result>Success</Result>
  <ErrorCode>RC_OK</ErrorCode>
  <Description>Successfully updated lock data.</Description>
</ResultRecord>
<LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>LckNoGID</LockName>
  <RecordType>A</RecordType>
  <StartDate>2003-04-16T16:40:20</StartDate>
  <LastUsedDate>2003-04-16T18:12:19</LastUsedDate>
  <CustomerNumber>123456</CustomerNumber>
  <LockMode>F</LockMode>
  <IfDualMode>0</IfDualMode>
  <IfLockOpen>0</IfLockOpen>
  <IfForcedClosed>0</IfForcedClosed>
  <IfRoute1Issued>0</IfRoute1Issued>
  <IfRoute2Issued>0</IfRoute2Issued>
  <IfRoute3Issued>0</IfRoute3Issued>
  <IfNoAlarm>0</IfNoAlarm>
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <IfActivationCall>0</IfActivationCall>
  <SerialNumber>500240</SerialNumber>
  <CloseSeal>32</CloseSeal>
  <PreviousSeal>0</PreviousSeal>
  <RouteSeal1>32</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>0</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>9</TransferReturnCode>
  <IssuedComboUser1Seq1>755043</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <AuditCount>4</AuditCount>
  <GroupName />
  <OriginalSerialNumber>0</OriginalSerialNumber>
  <Description1>123456789_1_3456789_2_3456789_3_3456789</Description1>
  <Description2>123456789_1_3456789_2_3456789_3_3456789</Description2>
  <Description3>123456789_1_3456789_2_3456789_3_3456789</Description3>
  <Description4>123456789_1_3456789_2_3456789_3_3456789</Description4>
  <CustomerID>ACustomer</CustomerID>
  <ATMSerialNumber>123456789_1_3456789_2_3456789_3</ATMSerialNumber>
  <UserDefined1>123456789_1_3456789_2_3456789_3</UserDefined1>
  <UserDefined2>123456789_1_3456789_2_3456789_3</UserDefined2>
  <UserDefined3>123456789_1_3456789_2_3456789_3</UserDefined3>
  <UserDefined4>123456789_1_3456789_2_3456789_3</UserDefined4>
  <Region>TestRegionC</Region>
  <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
  <IfLastRoute1Issued>0</IfLastRoute1Issued>
  <IfLastRoute2Issued>0</IfLastRoute2Issued>
  <IfLastRoute3Issued>0</IfLastRoute3Issued>
  <User1ID1>nf1</User1ID1>
  <User1ID2 />
  <User1ID3 />
  <User2ID1 />
  <User2ID2 />
  <User2ID3 />
  <RouteName1 />
```



```

<RouteName2 />
<RouteName3 />
<DispatcherID1>ns1</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2003-04-16T18:11:48.452Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1>2003-04-16T18:12:19.345Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>0</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1 />
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1 />
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1 xsi:nil="true" />
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1 xsi:nil="true" />
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2>HartFord, CT</Address2>
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</RESPONSE_UPDATE_LOCK>

```

Example 2 - Failure

Input Transaction:

```

<TRANSACTION_UPDATE_LOCK>
<UpdateLockRecord>
  <!-- Lock Name-->
  <LockName>LckNoGID</LockName>
  <!-- Lock Mode-->
  <LockMode>F</LockMode>
  <!-- New Customer ID -->
  <CustomerID>123456</CustomerID>
  <!-- New Address2 -->
  <Address2>HartFord, CT</Address2>
</UpdateLockRecord>
<!-- Dispatcher ID -->
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_LOCK>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_UPDATE_LOCK), a result record indicating failure with an error code (RC_ERR_CUSTOMER_NOT_FOUND) and description. Here, the new Customer ID is invalid because it is not present in the customer table of the database.

```

<RESPONSE_UPDATE_LOCK>
  <TRANSACTION_UPDATE_LOCK xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UpdateLockRecord>
      <LockName>LckNoGID</LockName>
      <LockMode>F</LockMode>
      <CustomerID>123456</CustomerID>
      <Address2>HartFord, CT</Address2>
    </UpdateLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_LOCK>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_CUSTOMER_NOT_FOUND</ErrorCode>
    <Description>New Customer Does not exist in the database.</Description>
  </ResultRecord>
</RESPONSE_UPDATE_LOCK>

```

2.2.7 Lock XML File Transactions - Rename Lock

CenTran Programming Reference Manual

This transaction renames an FLM, Route, or Bank mode lock. Only the lock name field is updated. It also updates any active log entry, if open.

Transaction information required:

- Lock Name or Serial Number – The name or lock serial number of the lock to be renamed.
- Lock Mode – The mode of the lock to be renamed.
- New Lock Name – The new name for the lock.
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the renamed lock record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Lock doesn't exist.
- Not authorized due to region (region control active).
- Failed to update log record
- Dispatcher not authorized to do this operation.
- Input transaction file has validation errors against the schema or the required input fields have an empty or invalid value.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_RENAME_LOCK>
  <!-- Lock Name-->
  <LockName>VLK016</LockName>
  <!-- Lock Mode-->
  <LockMode>R</LockMode>
  <!-- New Lock Name -->
  <NewLockName>VLKNewName</NewLockName>
  <!-- Dispatcher ID-->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_RENAME_LOCK>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_RENAME_LOCK), a result record (indicating success), and the renamed lock record.

```
<RESPONSE_RENAME_LOCK>
  <TRANSACTION_RENAME_LOCK xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <LockName>VLK016</LockName>
    <LockMode>R</LockMode>
    <NewLockName>VLKNewName</NewLockName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_RENAME_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock successfully renamed from VLK016 to VLKNewName.
    </Description>
  </ResultRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLKNewName</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:18:27</StartDate>
    <LastUsedDate>2009-02-13T17:18:41</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>1</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>0</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532016</SerialNumber>
    <CloseSeal>132</CloseSeal>
    <PreviousSeal>67</PreviousSeal>
    <RouteSeal1>132</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>147</PreviousRouteSeal1>
    <PreviousRouteSeal2>67</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
```

```

<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>579901</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>986190</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>8573</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>729333</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>219975</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>930736</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>16</AuditCount>
<GroupName />
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>0</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1>rzjack</User2ID1>
<User2ID2 />
<User2ID3 />
<RouteName1 />
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-12T17:43:40.653Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-02-13T17:18:41.542Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rbob</PreviousUser1ID1>
<PreviousUser1ID2>rbob</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1>rdave</PreviousUser2ID1>
<PreviousUser2ID2>rdave</PreviousUser2ID2>
<PreviousUser2ID3 />
<PreviousRouteName1>TestRoute1</PreviousRouteName1>
<PreviousRouteName2>TestRoute1</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2005-02-22T13:50:15.542Z</PreviousOpenTime1>
<PreviousOpenTime2>2005-02-22T13:50:16.524Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2005-02-22T14:41:44.122Z</PreviousCloseTime1>
<PreviousCloseTime2>2005-02-22T14:41:45.432Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</RESPONSE_RENAME_LOCK>

```

Example 2 - Failure

Input Transaction:

```

<TRANSACTION_RENAME_LOCK>
  <!-- Lock Name-->
  <LockName>VLK016</LockName>
  <!-- Lock Mode-->
  <LockMode>R</LockMode>
  <!-- New Lock Name -->

```

```
<NewLockName></NewLockName>
<!-- Dispatcher ID-->
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_RENAME_LOCK>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_RENAME_LOCK), a result record indicating failure with an error code (RC_ERR_INVALID_NEW_LOCKNAME) and description. The new lock name has to be a non-empty string.

```
<RESPONSE_RENAME_LOCK>
  <TRANSACTION_RENAME_LOCK xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <LockName>VLK016</LockName>
    <LockMode>R</LockMode>
    <NewLockName></NewLockName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_RENAME_LOCK>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_INVALID_NEW_LOCKNAME</ErrorCode>
    <Description>The new lock name is blank.</Description>
  </ResultRecord>
</RESPONSE_RENAME_LOCK>
```

2.2.8 Lock XML File Transactions - Delete Shelved Lock

CenTran Programming Reference Manual

This transaction deletes a shelved lock from the Cencon database by lock name and mode or by lock serial number and mode. This is supported for shelved FLM, Route, or Bank mode locks. If the lock to be deleted is not in a shelved state, then the lock must first be shelved either using an SA key or by remote communications. This transaction deletes only one mode of a lock from the Cencon database. A lock can have up to three entries in the database, one for FLM, Route and Bank modes.

Transaction information required:

- Lock Name or Serial Number - The name or serial number of the lock to be deleted.
- Lock Mode - The mode of the lock to be deleted.
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the entire deleted lock record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Lock doesn't exist.
- Lock mode is not shelved.
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.

Example 1 - Success - Delete By Lock Name

Input Transaction:

```
<TRANSACTION_DELETE_LOCK>
  <LockName>VLK111</LockName>
  <LockMode>F</LockMode>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_LOCK>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_DELETE_LOCK), a result record (indicating success) and the lock record that was deleted.

```
<RESPONSE_DELETE_LOCK>
  <TRANSACTION_DELETE_LOCK>
    <LockName>VLK111</LockName>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock VLK111 successfully deleted.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>VLK111</LockName>
    <RecordType>D</RecordType>
    <StartDate>2003-03-28T13:56:56Z</StartDate>
    <LastUsedDate>2003-03-28T16:49:36Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>532111</SerialNumber>
    <AuditCount>3</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>5</Seal>
    <PreviousSeal>0</PreviousSeal>
    <RouteSeal1>5</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>782582</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
```

```

<PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID/>
<ATMSerialNumber/>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>fdave</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>sad</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2003-03-28T16:14:12Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2003-03-28T16:46:11Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>fbob</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2003-03-28T13:57:52Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2003-03-28T14:02:07Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch/>
<Address1/>
<Address2/>
<City/>
<State/>
<ZIP/>
<Country/>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus/>
<LockDispatchStatus/>
<TimeZoneID/>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress/>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</RESPONSE_DELETE_LOCK>

```

Example 2 - Success - Delete By Lock Serial Number

Input Transaction:

```

<TRANSACTION_DELETE_LOCK>
  <SerialNumber>532112</SerialNumber>
  <LockMode>F</LockMode>

```

```
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_LOCK>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_DELETE_LOCK), a result record (indicating success) and the lock record that was deleted.

```
<RESPONSE_DELETE_LOCK>
  <TRANSACTION_DELETE_LOCK>
    <SerialNumber>532112</SerialNumber>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock VLK112 successfully deleted.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>VLK112</LockName>
    <RecordType>D</RecordType>
    <StartDate>2003-03-28T13:57:14Z</StartDate>
    <LastUsedDate>2003-03-28T16:49:41Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>532112</SerialNumber>
    <AuditCount>3</AuditCount>
    <IfLockOpen>false</IfLockOpen>
    <IfForcedClosed>false</IfForcedClosed>
    <IfRoute1Issued>false</IfRoute1Issued>
    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
    <Seal>120</Seal>
    <PreviousSeal>0</PreviousSeal>
    <RouteSeal1>120</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>422666</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1/>
    <Description2/>
    <Description3/>
    <Description4/>
    <CustomerID/>
    <ATMSerialNumber/>
    <UserDefined1/>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>false</IfLastRoute3Issued>
    <User1ID1>fdave</User1ID1>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>
    <RouteName3/>
    <DispatcherID1>sad</DispatcherID1>
    <DispatcherID2/>
    <DispatcherID3/>
    <OpenTime1>2003-03-28T16:14:26Z</OpenTime1>
    <OpenTime2/>
    <OpenTime3/>
    <CloseTime1>2003-03-28T16:46:38Z</CloseTime1>
    <CloseTime2/>
```

```

<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>fbob</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2003-03-28T13:57:53Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2003-03-28T14:02:21Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch/>
<Address1/>
<Address2/>
<City/>
<State/>
<ZIP/>
<Country/>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus/>
<LockDispatchStatus/>
<TimeZoneID/>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress/>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</RESPONSE_DELETE_LOCK>

```

Example 3 - Failure

Input Transaction:

```

<TRANSACTION_DELETE_LOCK>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_LOCK>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_DELETE_LOCK), a result record indicating failure with an error code (RC_ERR_DELETE_LOCK_CANNOT_BE_DELETED) and description. In this case, the lock is not shelved, so it can not be deleted.

```

<RESPONSE_DELETE_LOCK>
  <TRANSACTION_DELETE_LOCK>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_LOCK>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_DELETE_LOCK_CANNOT_BE_DELETED</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Failed to delete lock. The lock is either open or has not been shelved.
  </Description>
  </ResultRecord>
</RESPONSE_DELETE_LOCK>

```


2.2.9 Lock XML File Transactions - Lock Table Query

CenTran Programming Reference Manual

This transaction queries the lock table for a set of lock records. The query record in the input transaction file contains a set of lock fields to create a query from. The query record also contains a flag indicating if to use like search or exact search. The query transaction attempts to work in a similar fashion as Cencon's 'Find Locks' form which searches for locks to be displayed in a lock report.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the lock records in the lock table are retrieved.

- Lock Name
- Dispatched User ID (searches for this User ID in both the FLM1ID and FLM2ID lock record fields)
- Group Name
- Serial Number Minimum and Serial Number Maximum (these values specify a range)
- Lock mode
- If Dual Mode
- Customer Number
- Minimum Audit Count
- Start Date Range (Start Date Start and Start Date End dates)
- Last Used Date range (Last Used Date Start and Last Used Date End dates)
- Lock Status List (Locks in one or more of these modes – Active/Shelved/Install/Pending Shelve/Being Replaced)
- If Lock Open
- If Route Open
- If Unassigned Open Call
- If Forced Closed
- If Search Exact (If the value for this field is false, then like search is used).
- Customer ID
- ATM Serial Number
- Region
- Service Branch
- Description
- User Defined
- Address 1
- Address 2
- City
- State
- ZIP
- Country
- Bank Branch Name
- Lock Type - Gen 1 or Gen 2
- Dispatcher ID - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Notes

If the Dispatcher belongs to a local region and region control is enabled, only those locks belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region even if a different value has already been provided in the query record.

If the Boolean fields are not present in the query record, they are assumed to have a value of false. All the Boolean value fields start with the characters 'If'. This applies to all the query transactions.

For the Start Date Range and End Date Range search, both the lower and upper bounds for the search have to be specified i.e. both Start Date Start and Start Date End have to be specified. If only Start Date Start is specified in the query record, that search field will not have any effect on the result.

Similarly to the Date Range search, for the Serial Number range search, both the lower (Serial Number Minimum) and upper bounds (Serial Number Maximum) for the search have to be specified.

If string fields such as Address1, Description are left blank, those fields are left out of the search query i.e. CenTran does not search for lock records in which Address or Description field is empty. This applies to all the query transactions.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the lock records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open lock table.

Example 1 - Success

Input Transaction:

```
<TRANSACTION LOCK_QUERY>
  <LockQueryRecord>
    <!-- char string -->
    <LockName>VLK</LockName>
    <!-- char string -->
    <UserID></UserID>
    <!-- char string -->
    <GroupName></GroupName>
    <!-- long -->
```

```

<SerialNumberMinimum>532000</SerialNumberMinimum>
<!-- long -->
<SerialNumberMaximum>533000</SerialNumberMaximum>
<!-- char string -->
<LockMode>B</LockMode>
<!-- bool -->
<IfDualMode>0</IfDualMode>
<!-- long -->
<CustomerNumber>0</CustomerNumber>
<!-- long -->
<MinimumCountAudits>10</MinimumCountAudits>
<!-- date -->
<StartDateStart>2002-04-01T00:00:00</StartDateStart>
<!-- date -->
<StartDateEnd>2003-04-30T00:00:00</StartDateEnd>
<!-- date -->
<LastUsedDateStart>2004-04-01T00:00:00</LastUsedDateStart>
<!-- date -->
<LastUsedDateEnd>2005-04-30T00:00:00</LastUsedDateEnd>
<!-- list -->
<ListLockStatus>
  <LockStatus>A</LockStatus>
</ListLockStatus>
<!-- bool -->
<IfLockOpen>0</IfLockOpen>
<!-- bool -->
<IfRouteOpen>>false</IfRouteOpen>
<!-- bool -->
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<!-- bool -->
<IfForcedClosed>>false</IfForcedClosed>
<!-- char string -->
<CustomerID></CustomerID>
<!-- char string -->
<ATMSerialNumber></ATMSerialNumber>
<!-- char string -->
<Region>TestRegionA</Region>
<!-- char string -->
<ServiceBranch>service</ServiceBranch>
<!-- char string -->
<Description>Bank Branch</Description>
<!-- char string -->
<UserDefined></UserDefined>
<!-- char string -->
<Address1></Address1>
<!-- char string -->
<Address2></Address2>
<!-- char string -->
<City></City>
<!-- char string -->
<State></State>
<!-- char string -->
<ZIP></ZIP>
<!-- char string -->
<Country></Country>
<!-- char string -->
<BankBranchName>FirstBankBranch</BankBranchName>
<!-- bool -->
<IfSearchExact>0</IfSearchExact>
</LockQueryRecord>
<!-- char string -->
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_QUERY>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_QUERY), a result record (indicating success) and all the lock records matching the search query.

```

<RESPONSE LOCK_QUERY>
  <TRANSACTION_LOCK_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <LockQueryRecord>
      <LockName>VLK</LockName>
      <UserID></UserID>
      <GroupName></GroupName>
      <SerialNumberMinimum>532000</SerialNumberMinimum>
      <SerialNumberMaximum>533000</SerialNumberMaximum>
      <LockMode>B</LockMode>
      <IfDualMode>0</IfDualMode>
      <CustomerNumber>0</CustomerNumber>
      <MinimumCountAudits>10</MinimumCountAudits>
      <StartDateStart>2002-04-01T00:00:00</StartDateStart>
      <StartDateEnd>2003-04-30T00:00:00</StartDateEnd>
      <LastUsedDateStart>2004-04-01T00:00:00</LastUsedDateStart>
      <LastUsedDateEnd>2005-04-30T00:00:00</LastUsedDateEnd>
      <ListLockStatus>
        <LockStatus>A</LockStatus>
      </ListLockStatus>
      <IfLockOpen>0</IfLockOpen>
      <IfRouteOpen>>false</IfRouteOpen>
      <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
      <IfForcedClosed>>false</IfForcedClosed>
      <CustomerID></CustomerID>
      <ATMSerialNumber></ATMSerialNumber>
      <Region>TestRegionA</Region>
      <ServiceBranch>service</ServiceBranch>
    </TRANSACTION_LOCK_QUERY>
  </RESPONSE LOCK_QUERY>

```

```

        <Description>Bank Branch</Description>
        <UserDefined></UserDefined>
        <Address1></Address1>
        <Address2></Address2>
        <City></City>
        <State></State>
        <ZIP></ZIP>
        <Country></Country>
        <BankBranchName>FirstBankBranch</BankBranchName>
        <IfSearchExact>0</IfSearchExact>
    </LockQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_QUERY>
<ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock record/s found satisfying the search condition.
    </Description>
</ResultRecord>
<LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK101</LockName>
    <RecordType>A</RecordType>
    <StartDate>2003-03-27T20:44:16</StartDate>
    <LastUsedDate>2004-12-22T14:36:48</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>B</LockMode>
    <IfDualMode>0</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>0</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532101</SerialNumber>
    <CloseSeal>0</CloseSeal>
    <PreviousSeal>0</PreviousSeal>
    <RouteSeal1>0</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <AuditCount>11</AuditCount>
    <GroupName />
    <OriginalSerialNumber>0</OriginalSerialNumber>
    <Description1>Bank Branch Lock 1</Description1>
    <Description2 />
    <Description3 />
    <Description4 />
    <CustomerID />
    <ATMSerialNumber />
    <UserDefined1 />
    <UserDefined2 />
    <UserDefined3 />
    <UserDefined4 />
    <Region>TestRegionA</Region>
    <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
    <IfLastRoute1Issued>0</IfLastRoute1Issued>
    <IfLastRoute2Issued>1</IfLastRoute2Issued>
    <IfLastRoute3Issued>0</IfLastRoute3Issued>
    <User1ID1 />
    <User1ID2 />
    <User1ID3 />
    <User2ID1 />
    <User2ID2 />
    <User2ID3 />
    <RouteName1 />
    <RouteName2 />
    <RouteName3 />
    <DispatcherID1 />
    <DispatcherID2 />
    <DispatcherID3 />
    <OpenTime1 xsi:nil="true" />
    <OpenTime2 xsi:nil="true" />
    <OpenTime3 xsi:nil="true" />
    <CloseTime1 xsi:nil="true" />
    <CloseTime2 xsi:nil="true" />
    <CloseTime3 xsi:nil="true" />

```

```

<IfPreviousRoute1Issued>0</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1 />
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1 />
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1 xsi:nil="true" />
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1 xsi:nil="true" />
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName>FirstBankBranch</BankBranchName>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>1</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</RESPONSE_LOCK_QUERY>

```

Example 2 - Success but no records returned

Input Transaction:

```

<TRANSACTION_LOCK_QUERY>
  <LockQueryRecord>
    <!-- long -->
    <SerialNumberMinimum>555000</SerialNumberMinimum>
    <!-- long -->
    <SerialNumberMaximum>500000</SerialNumberMaximum>
    <!-- long -->
    <MinimumCountAudits>1000</MinimumCountAudits>
    <!-- list -->
    <ListLockStatus>
      <LockStatus>P</LockStatus>
      <LockStatus>I</LockStatus>
      <LockStatus>R</LockStatus>
    </ListLockStatus>
    <!-- bool -->
    <IfSearchExact>1</IfSearchExact>
  </LockQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_QUERY>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_ LOCK_QUERY), a result record indicating success (query was processed successfully) with a description field saying that no lock records were found to match the given search condition.

```

<RESPONSE_LOCK_QUERY>
  <TRANSACTION_LOCK_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <LockQueryRecord>
      <SerialNumberMinimum>555000</SerialNumberMinimum>
      <SerialNumberMaximum>500000</SerialNumberMaximum>
      <MinimumCountAudits>1000</MinimumCountAudits>
      <ListLockStatus>
        <LockStatus>P</LockStatus>
        <LockStatus>I</LockStatus>
        <LockStatus>R</LockStatus>
      </ListLockStatus>
      <IfSearchExact>1</IfSearchExact>
    </LockQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>No lock record found satisfying the search condition.
  </Description>
  </ResultRecord>
</RESPONSE_LOCK_QUERY>

```


2.2.10 Lock XML File Transactions - Lock Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the lock table matching the given query condition. It operates in the same manner as the Lock Table Query transaction.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_LOCK_QUERY_COUNT>
  <LockQueryRecord>
    <!-- long -->
    <SerialNumberMinimum>555000</SerialNumberMinimum>
    <!-- long -->
    <SerialNumberMaximum>500000</SerialNumberMaximum>
    <!-- long -->
    <MinimumCountAudits>0</MinimumCountAudits>
    <!-- date -->
    <StartDateStart>2003-04-30T00:00:00</StartDateStart>
    <!-- date -->
    <StartDateEnd>2002-04-01T00:00:00</StartDateEnd>
    <!-- date -->
    <LastUsedDateStart>2005-04-30T00:00:00</LastUsedDateStart>
    <!-- date -->
    <LastUsedDateEnd>2004-04-01T00:00:00</LastUsedDateEnd>
    <!-- list -->
    <ListLockStatus>
      <LockStatus>D</LockStatus>
    </ListLockStatus>
    <!-- bool -->
    <IfSearchExact>1</IfSearchExact>
  </LockQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_QUERY_COUNT>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_QUERY_COUNT), a result record (indicating success) and a field (QueryCount) having the exact query count.

```
<RESPONSE_LOCK_QUERY_COUNT>
  <TRANSACTION_LOCK_QUERY_COUNT xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <LockQueryRecord>
      <SerialNumberMinimum>555000</SerialNumberMinimum>
      <SerialNumberMaximum>500000</SerialNumberMaximum>
      <MinimumCountAudits>0</MinimumCountAudits>
      <StartDateStart>2003-04-30T00:00:00</StartDateStart>
      <StartDateEnd>2002-04-01T00:00:00</StartDateEnd>
      <LastUsedDateStart>2005-04-30T00:00:00</LastUsedDateStart>
      <LastUsedDateEnd>2004-04-01T00:00:00</LastUsedDateEnd>
      <ListLockStatus>
        <LockStatus>D</LockStatus>
      </ListLockStatus>
      <IfSearchExact>1</IfSearchExact>
    </LockQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of lock records matching the given query: 2.
  </Description>
  </ResultRecord>
  <QueryCount>2</QueryCount>
</RESPONSE_LOCK_QUERY_COUNT>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_LOCK_QUERY_COUNT>
  <LockQueryRecord>
    <!-- long -->
    <SerialNumberMinimum>555000</SerialNumberMinimum>
    <!-- long -->
    <SerialNumberMaximum>500000</SerialNumberMaximum>
    <!-- long -->
    <MinimumCountAudits>0</MinimumCountAudits>
    <!-- date -->
    <StartDateStart>2003-04-30T00:00:00</StartDateStart>
    <!-- date -->
    <StartDateEnd>2002-04-01T00:00:00</StartDateEnd>
    <!-- date -->
    <LastUsedDateStart>2005-04-30T00:00:00</LastUsedDateStart>
    <!-- date -->
    <LastUsedDateEnd>2004-04-01T00:00:00</LastUsedDateEnd>
    <!-- list -->
    <ListLockStatus>
      <LockStatus>D</LockStatus>
    </ListLockStatus>
```

```

    <!-- bool -->
    <IfSearchExact>1</IfSearchExact>
  </LockQueryRecord>
  <!-- char string -->
  <DispatcherID>rzjill</DispatcherID>
</TRANSACTION_LOCK_QUERY_COUNT>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_QUERY_COUNT), a result record (indicating failure) with an error code (RC_ERR_NOT_AUTHORIZED_TO_DO_OPERATION) and description. In this case, the dispatcher rzjill is not authorized to query a lock table.

```

<RESPONSE_LOCK_QUERY_COUNT>
  <TRANSACTION_LOCK_QUERY_COUNT xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <LockQueryRecord>
      <SerialNumberMinimum>555000</SerialNumberMinimum>
      <SerialNumberMaximum>500000</SerialNumberMaximum>
      <MinimumCountAudits>0</MinimumCountAudits>
      <StartDateStart>2003-04-30T00:00:00</StartDateStart>
      <StartDateEnd>2002-04-01T00:00:00</StartDateEnd>
      <LastUsedDateStart>2005-04-30T00:00:00</LastUsedDateStart>
      <LastUsedDateEnd>2004-04-01T00:00:00</LastUsedDateEnd>
      <ListLockStatus>
        <LockStatus>D</LockStatus>
      </ListLockStatus>
      <IfSearchExact>1</IfSearchExact>
    </LockQueryRecord>
    <DispatcherID>rzjill</DispatcherID>
  </TRANSACTION_LOCK_QUERY_COUNT>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_NOT_AUTHORIZED_TO_DO_OPERATION</ErrorCode>
    <Description>Dispatcher not authorized to perform this operation: Lock Table Query.
  </ResultRecord>
</RESPONSE_LOCK_QUERY_COUNT>

```


2.2.11 Lock XML File Transactions - Read Lock Log Data By Name

CenTran Programming Reference Manual

This transaction queries the lock log table for a set of lock log records of an open lock.

Transaction information required:

- Lock Name
- Lock Mode

Notes

If the dispatcher belongs to a local region and region control is enabled, only those locks belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region. If the lock is not assigned to the same region as the dispatcher, then the lock log data will be reported as not found.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the lock log records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open lock log table.

Example - Success

Example Input Transaction:

```
<TRANSACTION LOCK_LOG_READ_LOCK>
  <LockName>VLK013</LockName>
  <LockMode>R</LockMode>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_LOG_READ_LOCK>
```

Example Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_READ_LOCK), a result record (indicating success) and the lock log records matching the search query.

```
<RESPONSE LOCK_LOG_READ_LOCK>
  <TRANSACTION LOCK_LOG_READ_LOCK>
    <LockName>VLK013</LockName>
    <LockMode>R</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_READ_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Log record/s found satisfying the search condition.</Description>
  </ResultRecord>
  <LockLogRecord>
    <LockName>VLK013</LockName>
    <DispatchID>CENTRAN</DispatchID>
    <User1ID>nrl</User1ID>
    <User2ID/>
    <RouteName>Test3</RouteName>
    <GroupName/>
    <SerialNumber>532013</SerialNumber>
    <AuditCount>10</AuditCount>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <CustomerNumber>123456</CustomerNumber>
    <OpenDate>2011-05-13T18:06:11.103Z</OpenDate>
    <CloseDate/>
    <NumberCloseAttempts>0</NumberCloseAttempts>
    <LockSequence>1</LockSequence>
    <IfDispatchedOnRoute>1</IfDispatchedOnRoute>
    <IfForcedClosed>0</IfForcedClosed>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <DispatchOrder>1</DispatchOrder>
    <CustomerID/>
    <ATMSerialNumber/>
    <Region>KENTUCKY</Region>
    <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
    <ServiceBranch/>
  </LockLogRecord>
  <LockLogRecord>
    <LockName>VLK013</LockName>
    <DispatchID>CENTRAN</DispatchID>
    <User1ID>nrl</User1ID>
    <User2ID/>
    <RouteName>Test3</RouteName>
    <GroupName/>
    <SerialNumber>532013</SerialNumber>
    <AuditCount>10</AuditCount>
```

```
<LockMode>R</LockMode>
<IfDualMode>0</IfDualMode>
<CustomerNumber>123456</CustomerNumber>
<OpenDate>2011-05-13T18:06:12.007Z</OpenDate>
<CloseDate/>
<NumberCloseAttempts>0</NumberCloseAttempts>
<LockSequence>2</LockSequence>
<IfDispatchedOnRoute>1</IfDispatchedOnRoute>
<IfForcedClosed>0</IfForcedClosed>
<IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
<IfActivationCall>0</IfActivationCall>
<DispatchOrder>2</DispatchOrder>
<CustomerID/>
<ATMSerialNumber/>
<Region>KENTUCKY</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<ServiceBranch/>
</LockLogRecord>
</RESPONSE_LOCK_LOG_READ_LOCK>
```

2.2.12 Lock XML File Transactions - Read Lock Log Data By Serial Number

CenTran Programming Reference Manual

This transaction queries the lock log table for a set of lock log records of an open lock.

Transaction information required:

- Lock Serial Number
- Lock Mode

Notes

If the dispatcher belongs to a local region and region control is enabled, only those locks belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region. If the lock is not assigned to the same region as the dispatcher, then the lock log data will be reported as not found.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the lock log records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open lock log table.

Example - Success

Example Input Transaction:

```
<TRANSACTION_LOCK_LOG_READ_LOCK>
  <SerialNumber>532019</SerialNumber>
  <LockMode>R</LockMode>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_LOG_READ_LOCK>
```

Example Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_READ_LOCK), a result record (indicating success) and the lock log records matching the search query.

```
<RESPONSE_LOCK_LOG_READ_LOCK>
  <TRANSACTION_LOCK_LOG_READ_LOCK>
    <SerialNumber>532019</SerialNumber>
    <LockMode>R</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_READ_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Log record/s found satisfying the search condition.</Description>
  </ResultRecord>
  <LockLogRecord>
    <LockName>VLK019</LockName>
    <DispatchID>CENTRAN</DispatchID>
    <User1ID>nrl</User1ID>
    <User2ID/>
    <RouteName>TestRte6</RouteName>
    <GroupName/>
    <SerialNumber>532019</SerialNumber>
    <AuditCount>1</AuditCount>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <CustomerNumber>160080</CustomerNumber>
    <OpenDate>2011-07-14T13:57:30.917Z</OpenDate>
    <CloseDate/>
    <NumberCloseAttempts>0</NumberCloseAttempts>
    <LockSequence>1</LockSequence>
    <IfDispatchedOnRoute>1</IfDispatchedOnRoute>
    <IfForcedClosed>0</IfForcedClosed>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <DispatchOrder>2</DispatchOrder>
    <CustomerID>asdf</CustomerID>
    <ATMSerialNumber>asdfsad</ATMSerialNumber>
    <Region>KENTUCKY</Region>
    <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
    <ServiceBranch>the new service branch</ServiceBranch>
  </LockLogRecord>
  <LockLogRecord>
    <LockName>VLK019</LockName>
    <DispatchID>CENTRAN</DispatchID>
    <User1ID>nrl</User1ID>
    <User2ID/>
    <RouteName>TestRte6</RouteName>
    <GroupName/>
    <SerialNumber>532019</SerialNumber>
    <AuditCount>1</AuditCount>
```

```

<LockMode>R</LockMode>
<IfDualMode>0</IfDualMode>
<CustomerNumber>160080</CustomerNumber>
<OpenDate>2011-07-14T13:57:32.133Z</OpenDate>
<CloseDate/>
<NumberCloseAttempts>0</NumberCloseAttempts>
<LockSequence>2</LockSequence>
<IfDispatchedOnRoute>1</IfDispatchedOnRoute>
<IfForcedClosed>0</IfForcedClosed>
<IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
<IfActivationCall>0</IfActivationCall>
<DispatchOrder>3</DispatchOrder>
<CustomerID>asdf</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<Region>KENTUCKY</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<ServiceBranch>the new service branch</ServiceBranch>
</LockLogRecord>
<LockLogRecord>
  <LockName>VLK019</LockName>
  <DispatchID>CENTRAN</DispatchID>
  <User1ID>nrl</User1ID>
  <User2ID/>
  <RouteName>TestRte6</RouteName>
  <GroupName/>
  <SerialNumber>532019</SerialNumber>
  <AuditCount>1</AuditCount>
  <LockMode>R</LockMode>
  <IfDualMode>0</IfDualMode>
  <CustomerNumber>160080</CustomerNumber>
  <OpenDate>2011-07-14T13:57:33.460Z</OpenDate>
  <CloseDate/>
  <NumberCloseAttempts>0</NumberCloseAttempts>
  <LockSequence>3</LockSequence>
  <IfDispatchedOnRoute>1</IfDispatchedOnRoute>
  <IfForcedClosed>0</IfForcedClosed>
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <IfActivationCall>0</IfActivationCall>
  <DispatchOrder>4</DispatchOrder>
  <CustomerID>asdf</CustomerID>
  <ATMSerialNumber>asdfasd</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
  <ServiceBranch>the new service branch</ServiceBranch>
</LockLogRecord>
</RESPONSE_LOCK_LOG_READ_LOCK>

```

2.2.13 Lock XML File Transactions - Lock Log Table Query

CenTran Programming Reference Manual

This transaction queries the lock log table for a set of lock log records of open locks. The input transaction file contains a query record which in turn contains a set of lock fields to create a query from. The query record also contains a flag indicating if to use like search or exact search. The query transaction attempts to work in a similar fashion as Cencon's 'Find Open Locks' form to search for open locks to be displayed in a lock log report.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the lock records in the lock table are retrieved.

- Lock Name
- Dispatched User ID (searches for this User ID in both the FLM1ID and FLM2ID lock record fields)
- Route Name
- Group Name
- Lock Mode
- If Dual Mode
- Customer Number
- Open Date range (Open Date Start and Open Date End dates)
- Close Date range (Close Date Start and Close Date End dates)
- If Unassigned Open Call
- Customer ID
- ATM Serial Number
- Region
- Service Branch
- If Search Exact (If the value for this field is false, then like search is used)
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Notes

If the Dispatcher belongs to a local region and region control is enabled, only those locks belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region even if a different value has already been provided in the query record.

For the Open Date Range and Close Date Range search, the lower and upper bounds for the search can be specified independently i.e. Open Date Start may be specified in the query record while Open Date End may be left out and vice versa.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the lock log records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open lock log table.

Example - Success

Input Transaction:

```
<TRANSACTION_LOCK_LOG_QUERY>
  <LockLogQueryRecord>
    <!-- char string -->
    <LockName>Test</LockName>
    <!-- char string -->
    <UserID>rzjill</UserID>
    <!-- char string -->
    <GroupName></GroupName>
    <!-- char string -->
    <RouteName>TestRte5</RouteName>
    <!-- char string -->
    <LockMode>R</LockMode>
    <!-- bool -->
    <IfDualMode>0</IfDualMode>
    <!-- long -->
    <CustomerNumber>0</CustomerNumber>
    <!-- date -->
    <OpenDateStart>2004-04-01T00:00:00</OpenDateStart>
    <!-- date -->
    <OpenDateEnd>2005-04-30T00:00:00</OpenDateEnd>
    <!-- bool -->
    <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
    <!-- char string -->
    <CustomerID></CustomerID>
    <!-- char string -->
    <ATMSerialNumber></ATMSerialNumber>
    <!-- char string -->
    <Region>TestRegionD</Region>
    <!-- char string -->
    <ServiceBranch></ServiceBranch>
    <!-- bool -->
    <IfSearchExact>0</IfSearchExact>
  </LockLogQueryRecord>
<!-- char string -->
```

```
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_LOG_QUERY>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_QUERY), a result record (indicating success) and the lock log records matching the search query.

```
<RESPONSE_LOCK_LOG_QUERY>
  <TRANSACTION_LOCK_LOG_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <LockLogQueryRecord>
      <LockName>Test</LockName>
      <UserID>rzjill</UserID>
      <GroupName></GroupName>
      <RouteName>TestRte5</RouteName>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <CustomerNumber>0</CustomerNumber>
      <OpenDateStart>2004-04-01T00:00:00</OpenDateStart>
      <OpenDateEnd>2005-04-30T00:00:00</OpenDateEnd>
      <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
      <CustomerID></CustomerID>
      <ATMSerialNumber></ATMSerialNumber>
      <Region>TestRegionD</Region>
      <ServiceBranch></ServiceBranch>
      <IfSearchExact>0</IfSearchExact>
    </LockLogQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Log record/s found satisfying the search condition.
  </Description>
</ResultRecord>
  <LockLogRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>TestQueryLock2</LockName>
    <DispatchID>CentranSS</DispatchID>
    <User1ID>rzjill</User1ID>
    <User2ID />
    <RouteName>TestRte5</RouteName>
    <GroupName>aabb</GroupName>
    <SerialNumber>828856</SerialNumber>
    <AuditCount>20</AuditCount>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <CustomerNumber>123456</CustomerNumber>
    <OpenDate>2004-11-24T19:47:18.234Z</OpenDate>
    <CloseDate xsi:nil="true" />
    <NumberCloseAttempts>2</NumberCloseAttempts>
    <LockSequence>0</LockSequence>
    <IfDispatchedOnRoute>0</IfDispatchedOnRoute>
    <IfForcedClosed>0</IfForcedClosed>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <DispatchOrder>0</DispatchOrder>
    <CustomerID />
    <ATMSerialNumber />
    <Region>TestRegionD</Region>
    <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
    <ServiceBranch />
  </LockLogRecord>
</RESPONSE_LOCK_LOG_QUERY>
```

2.2.14 Lock XML File Transactions - Lock Log Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the lock log table matching the given query condition. It operates in the same manner as the Lock Log Table Query transaction.

Example

Input Transaction:

```
<TRANSACTION_LOCK_LOG_QUERY_COUNT>
  <LockLogQueryRecord>
    <!-- char string -->
    <LockName>Test</LockName>
    <!-- bool -->
    <IfSearchExact>0</IfSearchExact>
  </LockLogQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_LOG_QUERY_COUNT>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_QUERY_COUNT), a result record (indicating success) and a field (QueryCount) having the exact query count.

```
<RESPONSE_LOCK_LOG_QUERY_COUNT>
  <TRANSACTION_LOCK_LOG_QUERY_COUNT xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <LockLogQueryRecord>
      <LockName>Test</LockName>
      <IfSearchExact>0</IfSearchExact>
    </LockLogQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of lock log records matching the given query: 2.
    </Description>
  </ResultRecord>
  <QueryCount>2</QueryCount>
</RESPONSE_LOCK_LOG_QUERY_COUNT>
```

2.2.15 Lock XML File Transactions - Lock Log History Table Query

CenTran Programming Reference Manual

This transaction operates in the same manner as the Lock Log Table Query, but the query is applied to the Lock Log History table.

Example - Success

Input Transaction:

```
<TRANSACTION_LOCK_LOG_HISTORY_QUERY>
  <LockLogQueryRecord>
    <!-- char string -->
    <LockName>TestQueryLock1</LockName>
    <!-- char string -->
    <UserID></UserID>
    <!-- char string -->
    <GroupName>aabb</GroupName>
    <!-- char string -->
    <RouteName></RouteName>
    <!-- char string -->
    <LockMode>F</LockMode>
    <!-- bool -->
    <IfDualMode>1</IfDualMode>
    <!-- long -->
    <CustomerNumber>123456</CustomerNumber>
    <!-- date -->
    <OpenDateStart>2004-04-01T00:00:00</OpenDateStart>
    <!-- date -->
    <OpenDateEnd>2005-04-30T00:00:00</OpenDateEnd>
    <!-- date -->
    <CloseDateStart>2004-12-01T00:00:00</CloseDateStart>
    <!-- date -->
    <CloseDateEnd>2005-04-30T00:00:00</CloseDateEnd>
    <!-- bool -->
    <IfUnassignedOpenCall>1</IfUnassignedOpenCall>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ATMSerialNumber>123456789</ATMSerialNumber>
    <!-- char string -->
    <Region></Region>
    <!-- char string -->
    <ServiceBranch>the new service branch</ServiceBranch>
    <!-- bool -->
    <IfSearchExact>1</IfSearchExact>
  </LockLogQueryRecord>
  <!-- char string -->
  <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_LOCK_LOG_HISTORY_QUERY>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_HISTORY_QUERY), a result record (indicating success) and the lock log history records matching the search query.

```
<RESPONSE_LOCK_LOG_HISTORY_QUERY>
  <TRANSACTION_LOCK_LOG_HISTORY_QUERY xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <LockLogQueryRecord>
      <LockName>TestQueryLock1</LockName>
      <UserID></UserID>
      <GroupName>aabb</GroupName>
      <RouteName></RouteName>
      <LockMode>F</LockMode>
      <IfDualMode>1</IfDualMode>
      <CustomerNumber>123456</CustomerNumber>
      <OpenDateStart>2004-04-01T00:00:00</OpenDateStart>
      <OpenDateEnd>2005-04-30T00:00:00</OpenDateEnd>
      <CloseDateStart>2004-12-01T00:00:00</CloseDateStart>
      <CloseDateEnd>2005-04-30T00:00:00</CloseDateEnd>
      <IfUnassignedOpenCall>1</IfUnassignedOpenCall>
      <CustomerID>ACustomer</CustomerID>
      <ATMSerialNumber>123456789</ATMSerialNumber>
      <Region></Region>
      <ServiceBranch>the new service branch</ServiceBranch>
      <IfSearchExact>1</IfSearchExact>
    </LockLogQueryRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_LOCK_LOG_HISTORY_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Log history record/s found satisfying the search condition.
    </Description>
  </ResultRecord>
  <LockLogRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>TestQueryLock1</LockName>
    <DispatchID>CentranSS</DispatchID>
    <User1ID />
    <User2ID />
    <RouteName />
    <GroupName>aabb</GroupName>
    <SerialNumber>828856</SerialNumber>
    <AuditCount>2</AuditCount>
    <LockMode>F</LockMode>
```



```
<IfDualMode>1</IfDualMode>
<CustomerNumber>123456</CustomerNumber>
<OpenDate>2004-11-24T19:47:18</OpenDate>
<CloseDate>2004-12-24T19:47:18</CloseDate>
<NumberCloseAttempts>2</NumberCloseAttempts>
<LockSequence>0</LockSequence>
<IfDispatchedOnRoute>0</IfDispatchedOnRoute>
<IfForcedClosed>0</IfForcedClosed>
<IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
<IfActivationCall>0</IfActivationCall>
<DispatchOrder>0</DispatchOrder>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>123456789</ATMSerialNumber>
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>1</IfUnassignedOpenCall>
<ServiceBranch>the new service branch</ServiceBranch>
</LockLogRecord>
</RESPONSE_LOCK_LOG_HISTORY_QUERY>
```

2.2.16 Lock XML File Transactions - Lock Log History Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the lock log history table matching the given query condition. It operates in the same manner as the Lock Log History Table Query transaction.

Example

Input Transaction:

```
<TRANSACTION_LOCK_LOG_HISTORY_QUERY_COUNT>
  <LockLogQueryRecord>
    <!-- char string -->
    <LockName>Test</LockName>
    <!-- date -->
    <CloseDateStart>2005-12-01T00:00:00</CloseDateStart>
    <!-- date -->
    <CloseDateEnd>2005-12-30T00:00:00</CloseDateEnd>
    <!-- bool -->
    <IfSearchExact>0</IfSearchExact>
  </LockLogQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_LOG_HISTORY_QUERY_COUNT>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_HISTORY_QUERY_COUNT), a result record (indicating success) and a field (QueryCount) having the exact query count.

```
<RESPONSE_LOCK_LOG_HISTORY_QUERY_COUNT>
  <TRANSACTION_LOCK_LOG_HISTORY_QUERY_COUNT xmlns="http://www.kaba-
mas.com/CenTranTransac.xsd">
    <LockLogQueryRecord>
      <LockName>Test</LockName>
      <CloseDateStart>2005-12-01T00:00:00</CloseDateStart>
      <CloseDateEnd>2005-12-30T00:00:00</CloseDateEnd>
      <IfSearchExact>0</IfSearchExact>
    </LockLogQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_HISTORY_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of lock log history records matching the given query: 0.
    </Description>
  </ResultRecord>
  <QueryCount>0</QueryCount>
</RESPONSE_LOCK_LOG_HISTORY_QUERY_COUNT>
```

2.2.17 Lock XML File Transactions - Lock Log Archive Table Query

CenTran Programming Reference Manual

This transaction operates in the same manner as the Lock Log Table Query, but the query is applied to the Lock Log Archive table.

Example

Input Transaction:

```
<TRANSACTION_LOCK_LOG_ARCHIVE_QUERY>
  <LockLogQueryRecord>
    <!-- char string -->
    <LockName>Test</LockName>
    <!-- date -->
    <CloseDateStart>2004-12-01T00:00:00</CloseDateStart>
    <!-- date -->
    <CloseDateEnd>2005-01-30T00:00:00</CloseDateEnd>
    <!-- bool -->
    <IfSearchExact>0</IfSearchExact>
  </LockLogQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_LOG_ARCHIVE_QUERY>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_ARCHIVE_QUERY), a result record (indicating success) and the lock log archive records matching the search query.

```
<RESPONSE LOCK_LOG_ARCHIVE_QUERY>
  <TRANSACTION_LOCK_LOG_ARCHIVE_QUERY xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <LockLogQueryRecord>
      <LockName>Test</LockName>
      <CloseDateStart>2004-12-01T00:00:00</CloseDateStart>
      <CloseDateEnd>2005-01-30T00:00:00</CloseDateEnd>
      <IfSearchExact>0</IfSearchExact>
    </LockLogQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_ARCHIVE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Log archive record/s found satisfying the search condition.
  </Description>
</ResultRecord>
  <LockLogRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>TestQueryLock1</LockName>
    <DispatchID>CentranSS</DispatchID>
    <User1ID />
    <User2ID />
    <RouteName />
    <GroupName>aabb</GroupName>
    <SerialNumber>828856</SerialNumber>
    <AuditCount>2</AuditCount>
    <LockMode>F</LockMode>
    <IfDualMode>1</IfDualMode>
    <CustomerNumber>123456</CustomerNumber>
    <OpenDate>2004-11-24T19:47:18</OpenDate>
    <CloseDate>2004-12-24T19:47:18</CloseDate>
    <NumberCloseAttempts>2</NumberCloseAttempts>
    <LockSequence>0</LockSequence>
    <IfDispatchedOnRoute>0</IfDispatchedOnRoute>
    <IfForcedClosed>0</IfForcedClosed>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <DispatchOrder>0</DispatchOrder>
    <CustomerID>ACustomer</CustomerID>
    <ATMSerialNumber>123456789</ATMSerialNumber>
    <Region>TestRegionD</Region>
    <IfUnassignedOpenCall>1</IfUnassignedOpenCall>
    <ServiceBranch>the new service branch</ServiceBranch>
  </LockLogRecord>
  <LockLogRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>TestQueryLock2</LockName>
    <DispatchID>CentranSS</DispatchID>
    <User1ID>rzjill</User1ID>
    <User2ID />
    <RouteName>TestRte5</RouteName>
    <GroupName>aabb</GroupName>
    <SerialNumber>828856</SerialNumber>
    <AuditCount>20</AuditCount>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <CustomerNumber>123456</CustomerNumber>
    <OpenDate>2004-11-24T19:47:18</OpenDate>
    <CloseDate>2004-12-24T19:47:18</CloseDate>
    <NumberCloseAttempts>2</NumberCloseAttempts>
    <LockSequence>0</LockSequence>
    <IfDispatchedOnRoute>0</IfDispatchedOnRoute>
    <IfForcedClosed>0</IfForcedClosed>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
```

```
<DispatchOrder>0</DispatchOrder>
<CustomerID />
<ATMSerialNumber />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<ServiceBranch />
</LockLogRecord>
</RESPONSE_LOCK_LOG_ARCHIVE_QUERY>
```

2.2.18 Lock XML File Transactions - Lock Log Archive Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the lock log archive table matching the given query condition. It operates in the same manner as the Lock Log Archive Table Query transaction.

Example

Input Transaction:

```
<TRANSACTION_LOCK_LOG_ARCHIVE_QUERY_COUNT>
  <LockLogQueryRecord>
    <!-- char string -->
    <LockName>Test</LockName>
    <!-- date -->
    <CloseDateStart>2004-12-01T00:00:00</CloseDateStart>
    <!-- date -->
    <CloseDateEnd>2005-01-30T00:00:00</CloseDateEnd>
    <!-- bool -->
    <IfSearchExact>0</IfSearchExact>
  </LockLogQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_LOG_ARCHIVE_QUERY_COUNT>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_ARCHIVE_QUERY_COUNT), a result record (indicating success) and a field (QueryCount) having the exact query count.

```
<RESPONSE_LOCK_LOG_ARCHIVE_QUERY_COUNT>
  <TRANSACTION_LOCK_LOG_ARCHIVE_QUERY_COUNT xmlns="http://www.kaba-
mas.com/CenTranTransac.xsd">
    <LockLogQueryRecord>
      <LockName>Test</LockName>
      <CloseDateStart>2004-12-01T00:00:00</CloseDateStart>
      <CloseDateEnd>2005-01-30T00:00:00</CloseDateEnd>
      <IfSearchExact>0</IfSearchExact>
    </LockLogQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_ARCHIVE_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC OK</ErrorCode>
    <Description>Number of lock log archive records matching the given query: 2.
    </Description>
  </ResultRecord>
  <QueryCount>2</QueryCount>
</RESPONSE_LOCK_LOG_ARCHIVE_QUERY_COUNT>
```

2.2.19 Lock XML File Transactions - Initialize Lock SA Key for Audit Download

CenTran Programming Reference Manual

This transaction is used to initialize a lock SA key for audit download in the specified Cencon keybox.

Transaction information required:

- If Init for Bank Branch - Flag indicating if the lock SA key for audit download is to be initialized for a bank mode only lock. If so, the bank branch must be used to set up the security information on the lock SA key.
- Bank Branch Name - Specifies the bank branch to use if initializing the lock SA key for audit download for a bank mode only lock.
- IP Address and Port - Specifies the keybox to connect to from CenTran to initialize the key.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to initialize the key. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the key serial number information.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Incorrect model of key is present in the keybox reader slot.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example

Input Transaction:

```
<CentranXMLScript>
  <TRANSACTION_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
    <IfInitForBankBranch>false</IfInitForBankBranch>
    <IPAddress>10.108.6.103:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
</CentranXMLScript>
```

Output Transaction:

```
<CentranXMLScript>
  <RESPONSE_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
    <TRANSACTION_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
      <IfInitForBankBranch>false</IfInitForBankBranch>
      <IPAddress>10.108.6.103:53003</IPAddress>
      <CommunicationsID/>
      <CommunicationsMethod>Tcp</CommunicationsMethod>
      <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
    <ResultRecord>
      <Result>Success</Result>
    </ResultRecord>
  </RESPONSE_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
</CentranXMLScript>
```

```
<ErrorCode>RC_OK</ErrorCode>
<IfRetryValid>false</IfRetryValid>
<Description>Initialize lock SA key for audit download succeeded.</Description>
</ResultRecord>
<KeyInformation>
  <KeyID>0000000AB5D5</KeyID>
  <CanType>0C</CanType>
</KeyInformation>
</RESPONSE_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
</CentranXMLScript>
```

2.2.20 Lock XML File Transactions - Read Lock SA Key for Audit Download

CenTran Programming Reference Manual

This transaction is used to read the lock SA key for audit download in the specified Cencon keybox. It returns the current matching lock records from the Cencon database, lock activation / shelf records from the lock SA key, and returns the lock audit records from the lock SA key.

Transaction information required:

- IP Address and Port - Specifies the keybox to connect to from CenTran to read the key from.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Input transaction
- Result record indicating success
- Up to three records with lock mode status record and matching lock record data from the Cencon database, for each mode of the lock you have security access to in your Cencon database.
- An array of lock activate / shelf records read from the lock SA key
- An array of lock audit records read from the lock SA key

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- The key in the keybox reader slot is not a lock SA key for audit download.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Lock Activate / Shelf Data:

- Serial Number - This is the serial number for the lock involved in the activate / shelf event.
- Lock Mode - This is an identifier for the lock mode involved in the activate / shelf event. This will be F, R, B.
- LockActivateShelveEvent - This indicates if the event is an activate or a shelf. This will contain either Activate or Shelf.
- OriginatingLockMode - This indicates what originating lock mode was opened in order to activate this lock mode. This will be one of the other lock modes of the lock. If the lock was previously in a shelved (no modes activated) state, this will indicate that the mode was the first mode activated. If the lock mode was activated using remote serial communications, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- ActivateShelveKey - This is the key model (can) type and key identifier of the lock SA key used to activate the lock mode. If the lock mode was activated using remote serial communications, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- ActivateShelveDate - This is the date / time of the activate / shelf event in UTC based time.
- User1Key - This is the key model (can) type and key identifier of the first user of the originating lock mode that opened the lock to activate this lock mode. If the lock mode was activated using remote serial communications, this field will not be set.
- User1BankID - If the originating lock mode was bank mode, this is the bank mode user ID of the first user of the originating lock mode that opened the lock to activate this lock mode. If the lock mode was activated using remote serial communications or if the originating lock mode was not bank mode, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- User1Date - This is the date / time that the first user of the originating lock mode opened the lock to activate this lock mode. If the lock mode was activated using remote serial communications, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- User1ID - This is the user ID looked up from the Cencon database for the first user of the originating lock mode opened the lock to activate this lock mode. If the lock mode was activated using remote serial communications, this field will not be set.
- User2Key - This is the key model (can) type and key identifier of the second user of the originating lock mode that opened the lock to activate this lock mode. If the originating lock mode was set for single access to open (not dual access), this field will not be set. If the lock mode was activated using remote serial communications, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- User2BankID - If the originating lock mode was bank mode, this is the bank mode user ID of the second user of the originating lock mode that opened the lock to activate this lock mode. If the originating lock mode was set for single access to open (not dual access), this field will not be set. If the lock mode was activated using remote serial communications or if the originating lock mode was not bank mode, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- User2Date - This is the date / time that the second user of the originating lock mode opened the lock to activate this lock mode. If the originating lock mode was set for single access to open (not dual access), this field will not be set. If the lock mode was activated using remote serial communications, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- User2ID - This is the user ID looked up from the Cencon database for the second user of the originating lock mode opened the lock to activate this lock mode. If the originating lock mode was set for single access to open (not dual access), this field will not be set. If the lock mode was activated using remote serial communications, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- AbbreviatedCompanyID - This value allows identification of what company activated a lock mode for loss prevention. Each set of company security information for the Cencon USB Key Box includes a unique numeric value to identify the company. This value is also copied to the lock when a lock mode is activated. The company can be determined by contacting Kaba Mas customer support. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- AbbreviatedDeviceID - This value allows identification of what company Cencon USB Key Box activated a lock mode for loss prevention. Each set of company Cencon USB Key Box security information includes a unique numeric value to identify which Cencon USB Key Box was used to initialize the lock SA key for activating the lock. This value is copied to the lock when a lock mode is activated. The company Cencon USB Key Box can be determined by contacting Kaba Mas customer support. If

the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.

See [Appendix E - Lock Audit Data](#) for details of the lock audit information returned by CenTran.

Note								
Key Model Descriptions:								
Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example - Success

Input Transaction:

```
<CentranXMLScript>
  <TRANSACTION_READ_LOCK_SA_KEY_AUDIT_DOWNLOAD>
    <IPAddress/>
    <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK_SA_KEY_AUDIT_DOWNLOAD>
</CentranXMLScript>
```

Output Transaction:

```
<CentranXMLScript>
  <RESPONSE_READ_LOCK_SA_KEY_AUDIT_DOWNLOAD>
    <TRANSACTION_READ_LOCK_SA_KEY_AUDIT_DOWNLOAD>
      <IPAddress/>
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To Lock and Prompt For User Key (IPI)</Description>
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  <IsLockClockBatteryIsLow>>false</IsLockClockBatteryIsLow>
  <IsLockDuressComboUsed>>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>>false</IsLockCloseSealValid>
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  <IsPossibleLockErrorOrIntrusion>>false</IsPossibleLockErrorOrIntrusion>
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  <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
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  <EventResult>0</EventResult>
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  <PreviousDate/>
  <LogonUser1ID/>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName>Gen2 Swingbolt 1158563</LockName>
  <LockMode>R</LockMode>
  <RouteName/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>ATM 1158563</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <SerialNumber>001158563</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName/>
  <Description>Gen2 Swingbolt 1158563 Lock Event: Activate Route Mode</Description>
  <auditPK>2051f267-11de-4cfa-8b65-02cb57f87c33</auditPK>
  <User1Key/>

```



```

<User2Key/>
<LogonKey/>
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  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
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  <LockMode>F</LockMode>
  <RouteName/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>ATM 1158563</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <SerialNumber>001158563</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName/>
  <Description>Gen2 Swingbolt 1158563 Lock Event: FLM Mode Time Zone DST Table
Write</Description>
  <auditPK>643ed513-04a8-40b1-9028-92aca2d2a8fb</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
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  <LockTransactionType>0</LockTransactionType>
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  <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime>2014-09-23T17:06:06Z</LockOpenTime>
  <LockCloseTime/>
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  <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
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  <EventType>ENV_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
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  <PreviousDate/>
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  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
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  <LockMode>F</LockMode>
  <RouteName/>
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  <Region>KENTUCKY</Region>
  <SerialNumber>001158563</SerialNumber>
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  <BankBranchID>0</BankBranchID>
  <GroupName/>
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  <LockTransactionType>0</LockTransactionType>
  <LockTransactionEvent>0</LockTransactionEvent>
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```

```

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  <LockMode>F</LockMode>
  <RouteName/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>ATM 1158563</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <SerialNumber>001158563</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName/>
  <Description>Gen2 Swingbolt 1158563 Lock Event: Activate FLM Mode</Description>
  <auditPK>59b3f5c0-9904-498c-a29a-77c7d9b5964f</auditPK>
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  <User2Key/>
  <LogonKey/>
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  <LockTransactionType>0</LockTransactionType>
  <LockTransactionEvent>7</LockTransactionEvent>
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  <IsLockDuressComboUsed>>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
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  <LockCloseTime/>
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  <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
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  <EventType>ENV_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
  <EventDate>2014-09-23T17:01:57Z</EventDate>
  <PreviousDate/>
  <LogonUser1ID/>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName/>
  <LockMode/>
  <RouteName/>
  <CustomerID/>
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  <Region/>
  <SerialNumber>001158563</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName/>
  <Description>001158563 Lock Event: Lock opened with Factory/Shelved Mode
combo</Description>
  <auditPK>19998214-822a-4285-8a3e-4da412add808</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>144</LockTransactionCategory>
  <LockTransactionType>0</LockTransactionType>
  <LockTransactionEvent>1</LockTransactionEvent>
  <LockCloseSeal/>
  <LockFullSealCount>0</LockFullSealCount>
  <IsLockClockBatteryIsLow>>false</IsLockClockBatteryIsLow>
  <IsLockDuressComboUsed>>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime>2014-09-23T17:01:57Z</LockOpenTime>
  <LockCloseTime/>
  <IsPossibleLockErrorOrIntrusion>>false</IsPossibleLockErrorOrIntrusion>
  <LockAuditIndex>0</LockAuditIndex>
  <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>

```

```

        <ClientIPAddress/>
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        <IsLockAuditRecordCRCValid>true</IsLockAuditRecordCRCValid>
    </LockEventAuditRecord>
    <LockEventAuditRecord>
        <EventType>ENV_LOCK_EVENT</EventType>
        <EventResult>0</EventResult>
        <EventDate>2014-09-23T16:48:13Z</EventDate>
        <PreviousDate/>
        <LogonUser1ID/>
        <LogonUser2ID/>
        <LogonUser3ID/>
        <User1ID/>
        <User2ID/>
        <LockName/>
        <LockMode/>
        <RouteName/>
        <CustomerID/>
        <ATMSerialNumber/>
        <Region/>
        <SerialNumber>001158563</SerialNumber>
        <BankBranchName/>
        <BankUserID>0</BankUserID>
        <BankBranchID>0</BankBranchID>
        <GroupName/>
        <Description>001158563 Lock Event: Sensor - unexpected bolt works retraction. The
bolt works sensor indicates open while the bolt is still extended.</Description>
        <auditPK>89b055b3-01d7-43cd-8773-9c2bacadc454</auditPK>
        <User1Key/>
        <User2Key/>
        <LogonKey/>
        <LockTransactionCategory>156</LockTransactionCategory>
        <LockTransactionType>0</LockTransactionType>
        <LockTransactionEvent>5</LockTransactionEvent>
        <LockCloseSeal/>
        <LockFullSealCount>0</LockFullSealCount>
        <IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
        <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
        <IsLockCloseSealValid>false</IsLockCloseSealValid>
        <LockAbbreviatedDeviceID/>
        <LockOpenTime>2014-09-23T16:48:13Z</LockOpenTime>
        <LockCloseTime/>
        <IsPossibleLockErrorOrIntrusion>true</IsPossibleLockErrorOrIntrusion>
        <LockAuditIndex>0</LockAuditIndex>
        <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
        <ClientIPAddress/>
        <LockIPAddress/>
        <IsLockAuditRecordCRCValid>true</IsLockAuditRecordCRCValid>
    </LockEventAuditRecord>
</RESPONSE_READ_LOCK_SA_KEY_AUDIT_DOWNLOAD>
</CentranXMLScript>

```

2.2.21 Lock XML File Transactions - Initialize Lock SA Key for Activating Multiple Locks

CenTran Programming Reference Manual

This transaction is used to initialize a lock SA key for activating multiple locks in the specified Cencon keybox.

Transaction information required:

- **Activate Lock Serial Record** - An Activate Lock Serial Record is required for each lock being activated using the lock SA key. The details of this record are described in section [3.10.4 Activate Lock Across Network](#). Each lock mode being activated will require an Activate Lock Serial Record. In the case of Bank mode, this record also has an array of each Bank mode user to add as part of the activation.
- **Lock Mode To Open** - Specifies what lock mode used to open the lock as part of the activation process. If multiple modes of a lock are being activated at the same time, one of those modes must be used to open the lock after activation. In the case of using FLM or Route mode to open the lock, the user or users to open the lock must be dispatched and given a combination. In the case of using Bank mode to open the lock, the user or users must be one added as part of activating Bank mode.

The specified lock mode to open must be one of the modes being activated for each lock serial number being activated.

- **User 1 ID To Dispatch** - Specifies what first user ID to dispatch to open the lock as part of the activation process. This is needed only if FLM or Route mode is specified to open the lock. It is not required if Bank mode was specified to open the lock for the activation process. This user ID will be dispatched for each lock serial number being activated. The user ID must be the same lock mode as the lock mode specified to open.
- **User 2 ID To Dispatch** - Specifies what second user ID to dispatch to open the lock as part of the activation process. If none of the lock modes to open being activated are specified to be dual access, then this second user ID is not needed. This is needed only if FLM or Route mode is specified to open the lock. It is not required if Bank mode was specified to open the lock for the activation process. This user ID will be dispatched for each lock serial number being activated that require dual access for the lock mode to open. The user ID must be the same lock mode as the lock mode specified to open.
- **IP Address and Port** - Specifies the keybox to connect to from CenTran to initialize the key.
- **Communications ID** - Specifies an alternate identification of a keybox to connect to from CenTran to initialize the key. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- **Communications Method** - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

The Cencon Gen 2 lock supports daylight savings time changes through the use of a time offset transition table. This table contains up to 40 entries, which is sufficient for 20 years of operation with two transitions a year. This table is initialized for each lock mode when the lock mode is activated. It is also updated when the time is updated on the lock.

The daylight savings time transition table for the Cencon Gen 2 lock is generated from the selected time zone, using daylight saving time information from the host computer. If the time zone ID is not specified when activating a lock, then the currently set time zone on the host computer is used.

The following is a table of available time zone IDs for the Windows operating system using English. Other language installations may make use of different language time zone IDs.

Windows Time Zone IDs:

UTC Offset	Time Zone ID
-12:00:00	Dateline Standard Time
-11:00:00	UTC-11
-10:00:00	Hawaiian Standard Time
-09:00:00	Alaskan Standard Time
-08:00:00	Pacific Standard Time (Mexico)
-08:00:00	Pacific Standard Time
-07:00:00	US Mountain Standard Time
-07:00:00	Mountain Standard Time (Mexico)
-07:00:00	Mountain Standard Time
-06:00:00	Central America Standard Time
-06:00:00	Central Standard Time
-06:00:00	Central Standard Time (Mexico)
-06:00:00	Canada Central Standard Time
-05:00:00	SA Pacific Standard Time
-05:00:00	Eastern Standard Time
-05:00:00	US Eastern Standard Time
-04:30:00	Venezuela Standard Time
-04:00:00	Paraguay Standard Time
-04:00:00	Atlantic Standard Time
-04:00:00	Central Brazilian Standard Time
-04:00:00	SA Western Standard Time
-04:00:00	Pacific SA Standard Time
-03:30:00	Newfoundland Standard Time
-03:00:00	E. South America Standard Time
-03:00:00	Argentina Standard Time
-03:00:00	SA Eastern Standard Time
-03:00:00	Greenland Standard Time
-03:00:00	Montevideo Standard Time
-03:00:00	Bahia Standard Time
-02:00:00	UTC-02
-02:00:00	Mid-Atlantic Standard Time
-01:00:00	Azores Standard Time
-01:00:00	Cape Verde Standard Time

00:00:00	Morocco Standard Time
00:00:00	UTC
00:00:00	GMT Standard Time
00:00:00	Greenwich Standard Time
01:00:00	W. Europe Standard Time
01:00:00	Central Europe Standard Time
01:00:00	Romance Standard Time
01:00:00	Central European Standard Time
01:00:00	W. Central Africa Standard Time
01:00:00	Namibia Standard Time
02:00:00	Jordan Standard Time
02:00:00	GTB Standard Time
02:00:00	Middle East Standard Time
02:00:00	Egypt Standard Time
02:00:00	Syria Standard Time
02:00:00	E. Europe Standard Time
02:00:00	South Africa Standard Time
02:00:00	FLE Standard Time
02:00:00	Turkey Standard Time
02:00:00	Israel Standard Time
02:00:00	Kaliningrad Standard Time
02:00:00	Libya Standard Time
03:00:00	Arabic Standard Time
03:00:00	Arab Standard Time
03:00:00	Belarus Standard Time
03:00:00	Russian Standard Time
03:00:00	E. Africa Standard Time
03:30:00	Iran Standard Time
04:00:00	Arabian Standard Time
04:00:00	Azerbaijan Standard Time
04:00:00	Russia Time Zone 3
04:00:00	Mauritius Standard Time
04:00:00	Georgian Standard Time
04:00:00	Caucasus Standard Time
04:30:00	Afghanistan Standard Time
05:00:00	West Asia Standard Time
05:00:00	Ekaterinburg Standard Time
05:00:00	Pakistan Standard Time
05:30:00	India Standard Time
05:30:00	Sri Lanka Standard Time
05:45:00	Nepal Standard Time
06:00:00	Central Asia Standard Time
06:00:00	Bangladesh Standard Time
06:00:00	N. Central Asia Standard Time
06:30:00	Myanmar Standard Time
07:00:00	SE Asia Standard Time
07:00:00	North Asia Standard Time
08:00:00	China Standard Time
08:00:00	North Asia East Standard Time
08:00:00	Singapore Standard Time
08:00:00	W. Australia Standard Time
08:00:00	Taipei Standard Time
08:00:00	Ulaanbaatar Standard Time
09:00:00	Tokyo Standard Time
09:00:00	Korea Standard Time
09:00:00	Yakutsk Standard Time
09:30:00	Cen. Australia Standard Time
09:30:00	AUS Central Standard Time
10:00:00	E. Australia Standard Time
10:00:00	AUS Eastern Standard Time
10:00:00	West Pacific Standard Time
10:00:00	Tasmania Standard Time
10:00:00	Magadan Standard Time
10:00:00	Vladivostok Standard Time
11:00:00	Russia Time Zone 10
11:00:00	Central Pacific Standard Time
12:00:00	Russia Time Zone 11
12:00:00	New Zealand Standard Time
12:00:00	UTC+12
12:00:00	Fiji Standard Time
12:00:00	Kamchatka Standard Time
13:00:00	Tonga Standard Time
13:00:00	Samoa Standard Time
14:00:00	Line Islands Standard Time

Transaction information returned:**Success:**

- Input Transaction Record
- Result Record (result, error code and description): This contains an overall result for the entire transaction.
- Key Serial Number Information
- Array of Lock Record With Result: A lock record and result record for the activation of that lock record. The results of user(s) being dispatched to lock modes for the activation process are contained in the matching lock records.

Failure:

- Input Transaction Record
- Result Record (result, error code and description): This contains an overall result for the entire transaction. Some possible error codes that indicate errors with individual lock modes are:
 - RC_ERR_ACTIVATE_LOCK_DATA_CORRUPT
 - RC_ERR_ACTIVATE_LOCKS_ALL_PROCESSED_NONE_ACTIVATED
 - RC_ERR_ACTIVATE_LOCKS_SOME_NOT_ACTIVATED
- Key Serial Number Information (if any)
- Array of Lock Record With Result: A lock record and result record for the activation of that lock record. This array may or may not be returned depending on the nature of the error. If the error(s) is with individual lock modes, the error information for each lock mode will be returned with the associated result record.

Note**Key Model Descriptions:**

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Note

Cencon bank mode limitations differ between Cencon Gen 1 locks and Cencon Gen 2 locks. The following table summarizes the differences between the lock versions:

Feature	Cencon Gen 1	Cencon Gen 2
Number of Users On Lock	1-32	1-100
Bank Mode User ID Limit Per Bank Branch	1-79	0-2147483647
Bank Branch ID Limit	1-9999	1-2147483647
Initial Combinations	Bank mode user keys always have an initial default combination of 50-25-50 .	Bank mode user keys have an initial combination as set by the Cencon software.
Combination Valid To Open Lock	Must change bank mode user key initial combination before opening the lock.	Requirement to change the bank mode user key initial combination before opening the lock is set per bank mode user by the Cencon software.
Feature	DS1427 Bank Key	DS1963S Bank Key
Cencon Gen 1	Supported	Not Supported
Cencon Gen 2	Supported	Supported
Security	Legacy Cencon Security	Enhanced Security and Hardware Authentication
Bank Mode User ID Limit Per Bank Branch	1-79	0-2147483647
Bank Branch ID Limit	1-9999	1-2147483647

Example

Input Transaction:

```
<CentranXMLScript>
  <TRANSACTION_INIT_LOCK_SA_KEY_ACTIVATE>
    <IPAddress>10.108.6.103:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockModeToOpen>R</LockModeToOpen>
    <User1IDToDispatch>Route SHA Key 2</User1IDToDispatch>
    <TimeZoneID>Eastern Standard Time</TimeZoneID>
    <ActivateLockSerialRecord>
      <Country>USA</Country>
      <ZIP>40508</ZIP>
      <State>KY</State>
      <City>Lexington</City>
      <Address2>Engineering</Address2>
      <Address1>749 W. Short St.</Address1>
      <ServiceBranch>North Bank Service</ServiceBranch>
      <Region>KENTUCKY</Region>
      <UserDefined4>User Data 4</UserDefined4>
      <UserDefined3>User Data 3</UserDefined3>
      <UserDefined2>User Data 2</UserDefined2>
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      <Description3>My Description 3</Description3>
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      <Description1>My Description 1</Description1>
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      <CustomerID>North Bank</CustomerID>
      <IfDualMode>false</IfDualMode>
      <SerialNumber>1158563</SerialNumber>
      <LockMode>F</LockMode>
      <LockName>Gen2 Swingbolt 1158563</LockName>
    </ActivateLockSerialRecord>
    <ActivateLockSerialRecord>
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      <ZIP>40508</ZIP>
      <State>KY</State>
      <City>Lexington</City>
      <Address2>Engineering</Address2>
      <Address1>749 W. Short St.</Address1>
      <ServiceBranch>North Bank Service</ServiceBranch>
      <Region>KENTUCKY</Region>
      <UserDefined4>User Data 4</UserDefined4>
      <UserDefined3>User Data 3</UserDefined3>
      <UserDefined2>User Data 2</UserDefined2>
      <UserDefined1>User Data 1</UserDefined1>
      <Description4>My Description 4</Description4>
      <Description3>My Description 3</Description3>
      <Description2>My Description 2</Description2>
      <Description1>My Description 1</Description1>
      <ATMSerialNumber>ATM 1158563</ATMSerialNumber>
      <CustomerID>North Bank</CustomerID>
      <IfDualMode>false</IfDualMode>
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      <LockMode>R</LockMode>
      <LockName>Gen2 Swingbolt 1158563</LockName>
    </ActivateLockSerialRecord>
    <ActivateLockSerialRecord>
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      <BankOpenDelay>1</BankOpenDelay>
      <BankModeUserNameArray>
        <UserID>Bank SHA Key 10001</UserID>
        <UserID>Bank SHA Key 10002</UserID>
        <UserID>Bank SHA Key 10003</UserID>
        <UserID>Bank SHA Key 10004</UserID>
        <UserID>BU03</UserID>
        <UserID>BU04</UserID>
        <UserID>BU06</UserID>
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```



```

        <LockMode>B</LockMode>
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</TRANSACTION_INIT_LOCK_SA_KEY_ACTIVATE>
</CentranXMLScript>

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Output Transaction:

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      <CommunicationsMethod>Tcp</CommunicationsMethod>
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        <Address1>749 W. Short St.</Address1>
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        <Address1>749 W. Short St.</Address1>
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          <UserID>Bank SHA Key 10004</UserID>
          <UserID>BU03</UserID>
          <UserID>BU04</UserID>
          <UserID>BU06</UserID>
          <UserID>BU072 </UserID>
        </BankModeUserNameArray>
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        <Description3>My Description 3</Description3>

```

```

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        <CustomerID>North Bank</CustomerID>
        <IfDualMode>>false</IfDualMode>
        <SerialNumber>1158563</SerialNumber>
        <LockMode>B</LockMode>
        <LockName>Gen2 Swingbolt 1158563</LockName>
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</KeyInformation>
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        <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
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        <Description4>My Description 4</Description4>
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```

```

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```

```

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<Country>USA</Country>
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<BankOpenDelay>1</BankOpenDelay>
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<DuressDate/>
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  <UserID>Bank SHA Key 10002</UserID>
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  <UserID>Bank SHA Key 10004</UserID>
  <UserID>BU03</UserID>
  <UserID>BU04</UserID>
  <UserID>BU06</UserID>
  <UserID>BU072</UserID>
</BankModeUserNameArray>
</LockRecord>
</LockRecordWithResult>
</RESPONSE_INIT_LOCK_SA_KEY_ACTIVATE>
</CentranXMLScript>

```

2.2.22 Lock XML File Transactions - Read Lock SA Key for Activating Multiple Locks

CenTran Programming Reference Manual

This transaction is used to read the lock SA key for activating multiple locks in the specified Cencon keybox. It returns the lock activation records from the lock SA key and current matching lock records from the Cencon database.

Transaction information required:

- IP Address and Port - Specifies the keybox to connect to from CenTran to read the key from.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Input transaction
- Result record indicating success
- Key serial number information
- Abbreviated Kaba Mas Company ID - This ID is used to identify the company that initialized the activate key.
- Abbreviated Kaba Mas Device ID - This ID is used to identify the Cencon USB Key Box that initialized the activate key.
- An array of daylight savings time transition table entries/li>
- An array of lock activation records read from the lock SA key, along with the matching lock record from the Cencon database.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- The key in the keybox reader slot is not a lock SA key for activating locks.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.

Additional description of returned lock SA key data:

Kaba Mas Abbreviated Company ID:

This value allows identification of what company activated a lock mode for loss prevention. Each set of company security information for the Cencon USB Key Box includes a unique numeric value to identify the company. This value is also copied to the lock when a lock mode is activated. The company can be determined by contacting Kaba Mas customer support. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.

Kaba Mas Abbreviated Device ID:

This value allows identification of what company Cencon USB Key Box activated a lock mode for loss prevention. Each set of company Cencon USB Key Box security information includes a unique numeric value to identify which Cencon USB Key Box was used to initialize the lock SA key for activating the lock. This value is copied to the lock when a lock mode is activated. The company Cencon USB Key Box can be determined by contacting Kaba Mas customer support. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.

Daylight Savings Time Transition Record Table Data:

- **Transition Time** - This is the date / time of the daylight savings time transition, in UTC based time. The oldest (earliest) transition time that is prior to the current time is used.
- **Time Zone Bias** - This is the offset in minutes for the local time zone. This offset will be applied to UTC based time to determine the current local time.

Lock Activate Record Data:

- **Serial Number** - This is the serial number for the lock involved in the activate / shelve event.
- **Lock Mode** - This is an identifier for the lock mode involved in the activate / shelve event. This will be F, R, B.
- **If Dual Mode** - This flag indicates if the lock mode requires dual access to open. This will be true if two users are required to open the lock. This will be false if only a single user is required to open the lock.
- **If Gen2 Lock** - This flag indicates if the lock mode is for a Cencon Gen 2 activation or an older Cencon Gen 1 lock. This will be true if for a Cencon Gen 2 lock. This will be false if for a Cencon Gen 1 lock.
- **If Processed By Lock** - This flag indicates if the lock activation record was processed by a lock. This will be true if the key has been used to activate a lock. This will be false if the key has not been used to activate a lock.
- **Customer Number** - This is the generated customer number for the activation of the lock mode. This will be a random six digit numeric value.
- **Bank Open Delay** - The bank open delay only applies to bank mode of the lock. This is the number of minutes (from 1 to 99) that a user will have to wait, after entering a combination and inserting the Personal Identifier Key before the lock will open. If no Time Delay to Open is desired, set this field to 0. It is an optional field, and will default to 0 (no delay) if not set. The Bank Open Delay and Bank Open Window values must be either both zero or both non-zero.
- **Bank Open Window** - The bank open window only applies to bank mode of the lock. The second part of activating with Time Delay is the Window to Open. This specifies the amount of time, in minutes (from 1 to 99), in which a user must re-insert their key to open the lock after the Time Delay has expired. If the lock is not opened before the Window to Open elapses, the lock resets and the combination(s) and key(s) must be repeated, the time delay elapsed and then the lock opened. It is an optional field, and will default to 0 (no delay) if not set. The Bank Open Delay and Bank Open Window values must be either both zero or both non-zero.
- **Bank Branch ID** - The bank branch ID only applies to bank mode of the lock. If you are activating the bank mode of a lock, then this field will contain the numeric bank branch ID used for the activation of the lock. This numeric bank branch ID is identified in the Cencon database by a unique Bank Branch Name. Any bank mode users that are going to be assigned to the bank mode lock must be associated with the same Bank Branch.
- **Initialization Date** - This is the UTC based date / time that the lock mode was initialized.
- **Lock Record** - This is the matching Cencon database lock record for the lock mode being activated. If the lock mode is being used to open the lock as part of the lock activation process, the lock record will include the dispatched combination

information for the matching lock users to open the lock. For a detailed description of the lock record data, refer to the documentation for [Section 2.2.5 Read Lock Data](#).

- **Lock Key Activate Bank User Record** - This record type will occur multiple times for the activation of a bank mode lock. There will be one bank user record for each user being assigned to the bank mode lock. This record type will contain the following fields:
 - **BankUserID** - This is the numeric bank user ID for the user from the lock SA key. See below for valid ranges for this value for different Cencon generations. Cencon Gen 2 locks supports a greater range of bank user IDs than Cencon Gen 1 locks.
 - **CanType** - This is the can type of the key for the user being added to the bank mode lock. This is a single byte value indicating the hardware model of the key. See below for possible values.
 - **KeyID** - This is the 6 byte key ID for the user being added to the bank mode lock. The combination of the key ID and the can type is a unique value.
 - **IsRequiredChangeCombo** - This flag indicates that the user is required to change their combination at the lock before being permitted to open the lock. This flag is not supported by the Cencon Gen 1 lock. It is supported by the Cencon Gen 2 lock.
 - **IsUserEntryClearedByLock** - This flag indicates that the use entry has been read and cleared by the activation process at a Cencon Gen 1 lock. When a Cencon Gen 1 lock processes a bank mode activation, it clears each user entry to indicate that the user entry has been processed. A Cencon Gen 2 lock does not clear the user entries on a lock SA key for activation.
 - **UserRecord** - This field contains the current matching user record from the Cencon database. For a detailed description of the user record data, refer to the documentation for [Section 2.4.2 Read User Data](#).

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Note

Cencon bank mode limitations differ between Cencon Gen 1 locks and Cencon Gen 2 locks. The following table summarizes the differences between the lock versions:

Feature	Cencon Gen 1	Cencon Gen 2
Number of Users On Lock	1-32	1-100
Bank Mode User ID Limit Per Bank Branch	1-79	0-2147483647
Bank Branch ID Limit	1-9999	1-2147483647
Initial Combinations	Bank mode user keys always have an initial default combination of 50-25-50 .	Bank mode user keys have an initial combination as set by the Cencon software.
Combination Valid To Open Lock	Must change bank mode user key initial combination before opening the lock.	Requirement to change the bank mode user key initial combination before opening the lock is set per bank mode user by the Cencon software.
Feature	DS1427 Bank Key	DS1963S Bank Key
Cencon Gen 1	Supported	Not Supported
Cencon Gen 2	Supported	Supported
Security	Legacy Cencon Security	Enhanced Security and Hardware Authentication
Bank Mode User ID Limit Per Bank Branch	1-79	0-2147483647
Bank Branch ID Limit	1-9999	1-2147483647

Example - Success

Input Transaction:

```
<CentranXMLScript>
  <TRANSACTION_READ_LOCK_SA_KEY_ACTIVATE>
    <IPAddress/>
    <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK_SA_KEY_ACTIVATE>
</CentranXMLScript>
```

Output Transaction:

```
<CentranXMLScript>
  <RESPONSE_READ_LOCK_SA_KEY_ACTIVATE>
    <TRANSACTION_READ_LOCK_SA_KEY_ACTIVATE>
      <IPAddress/>
      <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
      <CommunicationsMethod>TcpClient</CommunicationsMethod>
      <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_READ_LOCK_SA_KEY_ACTIVATE>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <IfRetryValid>false</IfRetryValid>
      <Description>The key read lock activation information succeeded.</Description>
    </ResultRecord>
    <KeyInformation>
      <KeyID>00000011DF5B</KeyID>
      <CanType>0C</CanType>
    </KeyInformation>
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    <AbbreviatedDeviceID>0182</AbbreviatedDeviceID>
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      <TransitionTime/>
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    </DaylightSavingsTimeTransitionRecord>
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  </RESPONSE_READ_LOCK_SA_KEY_ACTIVATE>
</CentranXMLScript>
```

[illegible]

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<Address1>749 W. Short St.</Address1>
<Address2>Engineering</Address2>
<City>Lexington</City>
<State>KY</State>
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```

```

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    <IfWindow2Wed>>false</IfWindow2Wed>
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    <IfWindow2Fri>>false</IfWindow2Fri>
    <IfWindow2Sat>>false</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
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    <IfWindow3Mon>>false</IfWindow3Mon>
    <IfWindow3Tue>>false</IfWindow3Tue>
    <IfWindow3Wed>>false</IfWindow3Wed>
    <IfWindow3Thu>>false</IfWindow3Thu>
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    <IfWindow3Sat>>false</IfWindow3Sat>

```

```

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        <MiddleName/>
        <LastName/>
        <LastUsedDate>2008-08-19T11:51:24Z</LastUsedDate>
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        <BankUserID>4</BankUserID>
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        <MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
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        <EnabledEndDate/>
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    <Window3Duration>0</Window3Duration>
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    <IfWindow3Mon>>false</IfWindow3Mon>
    <IfWindow3Tue>>false</IfWindow3Tue>
    <IfWindow3Wed>>false</IfWindow3Wed>
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    <IfWindow3Sat>>false</IfWindow3Sat>
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    <LastName/>
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    <IfLegacyImport>>false</IfLegacyImport>
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    <IsUserEntryClearedByLock>>false</IsUserEntryClearedByLock>
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    <KeyID>0000000EF469</KeyID>
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    <NumberCombosIssued>0</NumberCombosIssued>
    <CreationDate>2013-04-17T17:15:28.85Z</CreationDate>
    <DeletionDate/>

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```

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<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate/>
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<CustomerID/>
<UserCombo>-1</UserCombo>
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<IfLegacyImport>>false</IfLegacyImport>
</UserRecord>
</LockKeyActivateBankUserRecord>
</LockKeyActivateRecord>
</RESPONSE_READ_LOCK_SA_KEY_ACTIVATE>
</CentranXMLScript>

```

2.2.23 Lock XML File Transactions - Initialize Lock Dispatch State Resynchronization Key

CenTran Programming Reference Manual

This transaction is used to initialize a lock dispatch state resynchronization key in the specified Cencon keybox. This is to resynchronize the state of a Cencon Gen 2 lock in the Cencon database with the actual state of a Cencon Gen 2 lock. The initialized key is taken to the lock to read the current lock dispatch state, and then returned to save the state to the Cencon database.

The lock mode can not be dispatched while this procedure is in process. After initializing a lock dispatch state resynchronization key for a lock mode, the lock mode must either be resynchronized with the returned key or the rechronization must be cancelled.

Transaction information required:

- Either Lock Name or Lock Serial Number - Specifies the lock to have dispatching resynchronized.
- Lock Mode - Specifies the lock mode to have dispatching resynchronized. This must be either FLM or Route mode. Bank mode is not applicable since it has fixed combinations for user keys.
- IP Address and Port - Specifies the keybox to connect to from CenTran to initialize the key.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to initialize the key. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description), the key serial number information, and the lock record for the lock mode being resynchronized.

Refer to the documentation for [Section 2.2.5 Read Lock Data](#) for details on the lock record data returned.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Incorrect model of key is present in the keybox reader slot.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Note								
Key Model Descriptions:								
Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example - Initialize Lock Dispatch State Resynchronization Key By Lock Serial Number

This example initializes a lock dispatch state resynchronization key in a keybox hosted by a Cencon Keybox Agent on a network, using a direct network connection IP address.

The lock is specified by serial number **1000116** and FLM mode.

Input Transaction:

```
<CentranXMLScript>
  <TRANSACTION INIT LOCK RESYNC KEY>
    <SerialNumber>1000116</SerialNumber>
    <LockMode>F</LockMode>
    <IPAddress>10.108.6.94:53003</IPAddress>
    <CommunicationsID/>
```



```
<CommunicationsMethod>Tcp</CommunicationsMethod>
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_INIT_LOCK_RESYNC_KEY>
</CentranXMLScript>
```

Output Transaction:

```
<CentranXMLScript>
  <RESPONSE_INIT_LOCK_RESYNC_KEY>
    <TRANSACTION_INIT_LOCK_RESYNC_KEY>
      <SerialNumber>1000116</SerialNumber>
      <LockMode>F</LockMode>
      <IPAddress>10.108.6.94:53003</IPAddress>
      <CommunicationsID/>
      <CommunicationsMethod>Tcp</CommunicationsMethod>
      <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_INIT_LOCK_RESYNC_KEY>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <IfRetryValid>false</IfRetryValid>
      <Description>Initialize lock dispatch state resynchronization key succeeded.
    </Description>
    </ResultRecord>
    <KeyInformation>
      <KeyID>0000006A3F4C</KeyID>
      <CanType>18</CanType>
    </KeyInformation>
    <LockRecord>
      <LockName>Gen2Swingbolt 1000116</LockName>
      <RecordType>A</RecordType>
      <StartDate>2013-11-25T18:40:52.927Z</StartDate>
      <LastUsedDate>2015-04-16T19:47:55.273Z</LastUsedDate>
      <CustomerNumber>532188</CustomerNumber>
      <LockMode>F</LockMode>
      <IfDualMode>false</IfDualMode>
      <SerialNumber>001000116</SerialNumber>
      <AuditCount>6</AuditCount>
      <IfLockOpen>false</IfLockOpen>
      <IfForcedClosed>true</IfForcedClosed>
      <IfRoute1Issued>false</IfRoute1Issued>
      <IfRoute2Issued>false</IfRoute2Issued>
      <IfRoute3Issued>false</IfRoute3Issued>
      <IfNoAlarm>false</IfNoAlarm>
      <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
      <IfActivationCall>false</IfActivationCall>
      <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
      <Seal>14201</Seal>
      <PreviousSeal>18190</PreviousSeal>
      <RouteSeal1>14201</RouteSeal1>
      <RouteSeal2>0</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>18190</PreviousRouteSeal1>
      <PreviousRouteSeal2>0</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>0</OpenTries2>
      <OpenTries3>0</OpenTries3>
      <TransferReturnCode>0</TransferReturnCode>
      <IssuedComboUser1Seq1>967020</IssuedComboUser1Seq1>
      <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
      <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
      <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
      <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
      <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
      <PreviousComboUser1Seq1>657245</PreviousComboUser1Seq1>
      <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
      <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
      <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
      <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
      <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
      <GroupName/>
      <OriginalSerialNumber>000000</OriginalSerialNumber>
      <Description1/>
      <Description2/>
      <Description3/>
      <Description4/>
      <CustomerID>North Bank</CustomerID>
      <ATMSerialNumber/>
      <UserDefined1/>
      <UserDefined2/>
      <UserDefined3/>
      <UserDefined4/>
      <Region>KENTUCKY</Region>
      <IfLastRoute1Issued>false</IfLastRoute1Issued>
      <IfLastRoute2Issued>false</IfLastRoute2Issued>
      <IfLastRoute3Issued>false</IfLastRoute3Issued>
      <User1ID1>FLM SHA Key 6</User1ID1>
      <User1ID2/>
      <User1ID3/>
      <User2ID1/>
      <User2ID2/>
      <User2ID3/>
      <RouteName1/>
```

```

<RouteName2/>
<RouteName3/>
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2015-04-16T19:27:53.79Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-16T19:47:55.273Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 6</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2014-10-17T15:38:50.507Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2014-10-17T15:42:36.927Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus>resync</LockDispatchStatus>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_INIT_LOCK_RESYNC_KEY>
</CentranXMLScript>

```

Example - Initialize Lock Dispatch State Resynchronization Key By Lock Name

This example initializes a lock dispatch state resynchronization key in a keybox hosted by a Cencon Keybox Agent on a network, using a persistent network connection ID for the keybox.

The lock is specified by lock name **Gen2Swingbolt 1000116** and FLM mode.

Input Transaction:

```

<CentranXMLScript>
  <TRANSACTION_INIT_LOCK_RESYNC_KEY>
    <LockName>Gen2Swingbolt 1000116</LockName>
    <LockMode>F</LockMode>
    <IPAddress/>
    <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_INIT_LOCK_RESYNC_KEY>
</CentranXMLScript>

```

Output Transaction:

```

<CentranXMLScript>
  <RESPONSE_INIT_LOCK_RESYNC_KEY>
    <TRANSACTION_INIT_LOCK_RESYNC_KEY>
      <LockName>Gen2Swingbolt 1000116</LockName>
      <LockMode>F</LockMode>
      <IPAddress/>

```

```

    <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_INIT_LOCK_RESYNC_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Initialize lock dispatch state resynchronization key succeeded.
  </Description>
  </ResultRecord>
  <KeyInformation>
    <KeyID>0000006A3F4C</KeyID>
    <CanType>18</CanType>
  </KeyInformation>
  <LockRecord>
    <LockName>Gen2Swingbolt 1000116</LockName>
    <RecordType>A</RecordType>
    <StartDate>2013-11-25T18:40:52.927Z</StartDate>
    <LastUsedDate>2015-04-16T19:47:55.273Z</LastUsedDate>
    <CustomerNumber>532188</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000116</SerialNumber>
    <AuditCount>6</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>true</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>14201</Seal>
    <PreviousSeal>18190</PreviousSeal>
    <RouteSeal1>14201</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>18190</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>967020</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>657245</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1/>
    <Description2/>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber/>
    <UserDefined1/>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>>false</IfLastRoute3Issued>
    <User1ID1>FLM SHA Key 6</User1ID1>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>
    <RouteName3/>
    <DispatcherID1>CentranSS</DispatcherID1>
    <DispatcherID2/>
    <DispatcherID3/>
    <OpenTime1>2015-04-16T19:27:53.79Z</OpenTime1>
    <OpenTime2/>
    <OpenTime3/>
    <CloseTime1>2015-04-16T19:47:55.273Z</CloseTime1>
    <CloseTime2/>
    <CloseTime3/>
    <IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
    <IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
    <IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
    <PreviousUser1ID1>FLM SHA Key 6</PreviousUser1ID1>
    <PreviousUser1ID2/>

```

```

    <PreviousUser1ID3/>
    <PreviousUser2ID1/>
    <PreviousUser2ID2/>
    <PreviousUser2ID3/>
    <PreviousRouteName1/>
    <PreviousRouteName2/>
    <PreviousRouteName3/>
    <PreviousOpenTime1>2014-10-17T15:38:50.507Z</PreviousOpenTime1>
    <PreviousOpenTime2/>
    <PreviousOpenTime3/>
    <PreviousCloseTime1>2014-10-17T15:42:36.927Z</PreviousCloseTime1>
    <PreviousCloseTime2/>
    <PreviousCloseTime3/>
    <ServiceBranch>North Branch</ServiceBranch>
    <Address1>749 W. Short St.</Address1>
    <Address2/>
    <City>Lexington</City>
    <State>KY</State>
    <ZIP>40508</ZIP>
    <Country>USA</Country>
    <KeyCloseSeal>26705</KeyCloseSeal>
    <BankBranchName/>
    <BankOpenDelay>0</BankOpenDelay>
    <BankOpenWindow>0</BankOpenWindow>
    <LockHardwareModel/>
    <LockActivationStatus>gen2</LockActivationStatus>
    <LockDispatchStatus>resync</LockDispatchStatus>
    <TimeZoneID>Eastern Standard Time</TimeZoneID>
    <LowBatteryDate/>
    <DuressDate/>
    <IfLegacyImport>>false</IfLegacyImport>
    <NetworkAddress>0.0.0.0</NetworkAddress>
    <NetworkPort>0</NetworkPort>
    <DisplayIssuedComboUser1Seq1/>
    <DisplayIssuedComboUser1Seq2/>
    <DisplayIssuedComboUser1Seq3/>
    <DisplayIssuedComboUser2Seq1/>
    <DisplayIssuedComboUser2Seq2/>
    <DisplayIssuedComboUser2Seq3/>
    <CloseSealLength>4</CloseSealLength>
  </LockRecord>
</RESPONSE_INIT_LOCK_RESYNC_KEY>
</CentranXMLScript>

```

2.2.24 Lock XML File Transactions - Read Lock Dispatch State Resynchronization Key

CenTran Programming Reference Manual

This transaction is used to read information for reporting purposes from a lock dispatch state resynchronization key.

Transaction information required:

- IP Address and Port - Specifies the keybox to connect to from CenTran to read the key from.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Input transaction
- Result record indicating success
- Key serial number information
- If key was used at lock: Lock Last Open Date
- If key was used at lock: First User To Last Open Lock
- If key was used at lock and lock requires dual access: Second User To Last Open Lock
- Matching Lock Record From Cencon Database

Refer to the documentation for [Section 2.2.5 Read Lock Data](#) for details on the lock record data returned.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- The key in the keybox reader slot is not a lock resynchronization key.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example - Success (Key Not Used At Lock)

The lock resynchronization key was not used at the lock yet.

The remote keybox was connected to using a direct IP address.

Input Transaction:

```
<CentranXMLScript>
  <TRANSACTION_READ_LOCK_RESYNC_KEY>
    <IPAddress>10.108.6.94:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK_RESYNC_KEY>
</CentranXMLScript>
```

Output Transaction:

```

<CentranXMLScript>
  <RESPONSE_READ_LOCK_RESYNC_KEY>
    <TRANSACTION_READ_LOCK_RESYNC_KEY>
      <IPAddress>10.108.6.94:53003</IPAddress>
      <CommunicationsID/>
      <CommunicationsMethod>Tcp</CommunicationsMethod>
      <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_READ_LOCK_RESYNC_KEY>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <IfRetryValid>false</IfRetryValid>
      <Description>Read of lock resynchronization key succeeded.</Description>
    </ResultRecord>
    <KeyInformation>
      <KeyID>0000006A3F4C</KeyID>
      <CanType>18</CanType>
    </KeyInformation>
    <LockRecord>
      <LockName>Gen2Swingbolt 1000116</LockName>
      <RecordType>A</RecordType>
      <StartDate>2013-11-25T18:40:52.927Z</StartDate>
      <LastUsedDate>2015-04-21T20:22:47.033Z</LastUsedDate>
      <CustomerNumber>532188</CustomerNumber>
      <LockMode>F</LockMode>
      <IfDualMode>false</IfDualMode>
      <SerialNumber>001000116</SerialNumber>
      <AuditCount>10</AuditCount>
      <IfLockOpen>false</IfLockOpen>
      <IfForcedClosed>true</IfForcedClosed>
      <IfRoute1Issued>false</IfRoute1Issued>
      <IfRoute2Issued>false</IfRoute2Issued>
      <IfRoute3Issued>false</IfRoute3Issued>
      <IfNoAlarm>false</IfNoAlarm>
      <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
      <IfActivationCall>false</IfActivationCall>
      <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
      <Seal>14776</Seal>
      <PreviousSeal>9278</PreviousSeal>
      <RouteSeal1>14776</RouteSeal1>
      <RouteSeal2>0</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>9278</PreviousRouteSeal1>
      <PreviousRouteSeal2>0</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>0</OpenTries2>
      <OpenTries3>0</OpenTries3>
      <TransferReturnCode>0</TransferReturnCode>
      <IssuedComboUser1Seq1>359709</IssuedComboUser1Seq1>
      <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
      <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
      <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
      <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
      <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
      <PreviousComboUser1Seq1>953569</PreviousComboUser1Seq1>
      <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
      <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
      <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
      <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
      <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
      <GroupName/>
      <OriginalSerialNumber>000000</OriginalSerialNumber>
      <Description1/>
      <Description2/>
      <Description3/>
      <Description4/>
      <CustomerID>North Bank</CustomerID>
      <ATMSerialNumber/>
      <UserDefined1/>
      <UserDefined2/>
      <UserDefined3/>
      <UserDefined4/>
      <Region>KENTUCKY</Region>
      <IfLastRoute1Issued>false</IfLastRoute1Issued>
      <IfLastRoute2Issued>false</IfLastRoute2Issued>
      <IfLastRoute3Issued>false</IfLastRoute3Issued>
      <User1ID1>FLM SHA Key 4</User1ID1>
      <User1ID2/>
      <User1ID3/>
      <User2ID1/>
      <User2ID2/>
      <User2ID3/>
      <RouteName1/>
      <RouteName2/>
      <RouteName3/>
      <DispatcherID1>MHG\LSTALL</DispatcherID1>
      <DispatcherID2/>
      <DispatcherID3/>
      <OpenTime1>2015-04-21T20:14:23.663Z</OpenTime1>
      <OpenTime2/>
      <OpenTime3/>
      <CloseTime1>2015-04-21T20:22:47.033Z</CloseTime1>
      <CloseTime2/>
      <CloseTime3/>

```

```

<IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 4</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2015-04-21T20:13:55.987Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2015-04-21T20:14:11.027Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus>resync</LockDispatchStatus>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_READ_LOCK_RESYNC_KEY>
</CentranXMLScript>

```

Example - Success (Key Was Used At Lock)

The lock resynchronization key was used at the lock successfully. The lock was last opened by a single user (single user mode).

The remote keybox was connected to using a communications ID for a persistent network connection from the Cencon Keybox Agent service.

Input Transaction:

```

<CentranXMLScript>
  <TRANSACTION_READ_LOCK_RESYNC_KEY>
    <IPAddress/>
    <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK_RESYNC_KEY>
</CentranXMLScript>

```

Output Transaction:

```

<CentranXMLScript>
  <RESPONSE_READ_LOCK_RESYNC_KEY>
    <TRANSACTION_READ_LOCK_RESYNC_KEY>
      <IPAddress/>
      <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
      <CommunicationsMethod>TcpClient</CommunicationsMethod>
      <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_READ_LOCK_RESYNC_KEY>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <IfRetryValid>false</IfRetryValid>
      <Description>Read of lock resynchronization key succeeded.</Description>
    </ResultRecord>
    <KeyInformation>
      <KeyID>0000006A3F4C</KeyID>
      <CanType>18</CanType>
    </KeyInformation>
  </RESPONSE_READ_LOCK_RESYNC_KEY>
</CentranXMLScript>

```



```
<LockOpenDateTime>2015-04-21T20:12:44Z</LockOpenDateTime>
<FirstUserToOpen>
  <UserID>FLM SHA Key 4</UserID>
  <SecurityLevel>1</SecurityLevel>
  <KeyID>0000006A71AC</KeyID>
  <CanType>18</CanType>
  <NumberCombosIssued>1</NumberCombosIssued>
  <CreationDate>2013-04-23T17:33:15.113Z</CreationDate>
  <DeletionDate/>
  <Nickname/>
  <NicknameExpirationDate/>
  <GroupName/>
  <NumberTimeWindows>0</NumberTimeWindows>
  <Window1Start>0</Window1Start>
  <Window1Duration>0</Window1Duration>
  <IfWindow1Sun>false</IfWindow1Sun>
  <IfWindow1Mon>false</IfWindow1Mon>
  <IfWindow1Tue>false</IfWindow1Tue>
  <IfWindow1Wed>false</IfWindow1Wed>
  <IfWindow1Thu>false</IfWindow1Thu>
  <IfWindow1Fri>false</IfWindow1Fri>
  <IfWindow1Sat>false</IfWindow1Sat>
  <Window2Start>0</Window2Start>
  <Window2Duration>0</Window2Duration>
  <IfWindow2Sun>false</IfWindow2Sun>
  <IfWindow2Mon>false</IfWindow2Mon>
  <IfWindow2Tue>false</IfWindow2Tue>
  <IfWindow2Wed>false</IfWindow2Wed>
  <IfWindow2Thu>false</IfWindow2Thu>
  <IfWindow2Fri>false</IfWindow2Fri>
  <IfWindow2Sat>false</IfWindow2Sat>
  <Window3Start>0</Window3Start>
  <Window3Duration>0</Window3Duration>
  <IfWindow3Sun>false</IfWindow3Sun>
  <IfWindow3Mon>false</IfWindow3Mon>
  <IfWindow3Tue>false</IfWindow3Tue>
  <IfWindow3Wed>false</IfWindow3Wed>
  <IfWindow3Thu>false</IfWindow3Thu>
  <IfWindow3Fri>false</IfWindow3Fri>
  <IfWindow3Sat>false</IfWindow3Sat>
  <Region>KENTUCKY</Region>
  <ServiceBranch/>
  <FirstName/>
  <MiddleName/>
  <LastName/>
  <LastUsedDate>2015-04-21T20:22:47.033Z</LastUsedDate>
  <AuthorizationRole>FLM</AuthorizationRole>
  <BankUserID>0</BankUserID>
  <TotalNumberCombosIssued>104</TotalNumberCombosIssued>
  <MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
  <EnabledStartDate/>
  <EnabledEndDate/>
  <BankBranchName/>
  <CustomerID>North Bank</CustomerID>
  <UserCombo>0</UserCombo>
  <IfMustChangeCombo>true</IfMustChangeCombo>
  <IfLegacyImport>false</IfLegacyImport>
</FirstUserToOpen>
<LockRecord>
  <LockName>Gen2Swingbolt 1000116</LockName>
  <RecordType>A</RecordType>
  <StartDate>2013-11-25T18:40:52.927Z</StartDate>
  <LastUsedDate>2015-04-21T20:22:47.033Z</LastUsedDate>
  <CustomerNumber>532188</CustomerNumber>
  <LockMode>F</LockMode>
  <IfDualMode>false</IfDualMode>
  <SerialNumber>001000116</SerialNumber>
  <AuditCount>10</AuditCount>
  <IfLockOpen>false</IfLockOpen>
  <IfForcedClosed>true</IfForcedClosed>
  <IfRoute1Issued>false</IfRoute1Issued>
  <IfRoute2Issued>false</IfRoute2Issued>
  <IfRoute3Issued>false</IfRoute3Issued>
  <IfNoAlarm>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
  <Seal>14776</Seal>
  <PreviousSeal>9278</PreviousSeal>
  <RouteSeal1>14776</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>9278</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>359709</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>953569</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
```

```

<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber/>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>FLM SHA Key 4</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
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<RouteName3/>
<DispatcherID1>MHG\LTALL</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
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<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-21T20:22:47.033Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 4</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2015-04-21T20:13:55.987Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2015-04-21T20:14:11.027Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus>resync</LockDispatchStatus>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_READ_LOCK_RESYNC_KEY>
</CentranXMLScript>

```


2.2.25 Lock XML File Transactions - Resynchronize Lock Dispatch State With Key

CenTran Programming Reference Manual

This transaction is used to resynchronize the dispatch state stored for a lock in the Cencon database, using security data read from a lock resynchronization key that had been used at the lock.

Transaction information required:

- IP Address and Port - Specifies the keybox to connect to from CenTran to read the key from.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Input transaction
- Result record indicating success
- Key serial number information
- Original lock record from before the resynchronization operation.
- Result lock record from after the resynchronization operation.

OriginalLockRecord / ResultLockRecord:

Refer to the documentation for [Section 2.2.5 Read Lock Data](#) for details on the lock record data returned.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- The key in the keybox reader slot is not a lock resynchronization key.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example - Success

The remote keybox was connected to using a communications ID for a persistent network connection from the Cencon Keybox Agent service.

Input Transaction:

```
<CentranXMLScript>
  <TRANSACTION_RESYNC_LOCK_WITH_KEY>
    <IPAddress/>
    <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_RESYNC_LOCK_WITH_KEY>
</CentranXMLScript>
```

Output Transaction:

```

<CentranXMLScript>
  <RESPONSE RESYNC LOCK WITH KEY>
    <TRANSACTION_RESYNC_LOCK_WITH_KEY>
      <IPAddress/>
      <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
      <CommunicationsMethod>TcpClient</CommunicationsMethod>
      <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_RESYNC_LOCK_WITH_KEY>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <IfRetryValid>false</IfRetryValid>
      <Description>Lock dispatch state resynchronization with key succeeded.
    </Description>
    </ResultRecord>
    <KeyInformation>
      <KeyID>0000006A3F4C</KeyID>
      <CanType>18</CanType>
    </KeyInformation>
    <OriginalLockRecord>
      <LockName>Gen2Swingbolt 1000116</LockName>
      <RecordType>A</RecordType>
      <StartDate>2013-11-25T18:40:52.927Z</StartDate>
      <LastUsedDate>2015-04-21T20:22:47.033Z</LastUsedDate>
      <CustomerNumber>532188</CustomerNumber>
      <LockMode>F</LockMode>
      <IfDualMode>false</IfDualMode>
      <SerialNumber>001000116</SerialNumber>
      <AuditCount>10</AuditCount>
      <IfLockOpen>false</IfLockOpen>
      <IfForcedClosed>true</IfForcedClosed>
      <IfRoute1Issued>false</IfRoute1Issued>
      <IfRoute2Issued>false</IfRoute2Issued>
      <IfRoute3Issued>false</IfRoute3Issued>
      <IfNoAlarm>false</IfNoAlarm>
      <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
      <IfActivationCall>false</IfActivationCall>
      <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
      <Seal>14776</Seal>
      <PreviousSeal>9278</PreviousSeal>
      <RouteSeal1>14776</RouteSeal1>
      <RouteSeal2>0</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>9278</PreviousRouteSeal1>
      <PreviousRouteSeal2>0</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>0</OpenTries2>
      <OpenTries3>0</OpenTries3>
      <TransferReturnCode>0</TransferReturnCode>
      <IssuedComboUser1Seq1>359709</IssuedComboUser1Seq1>
      <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
      <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
      <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
      <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
      <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
      <PreviousComboUser1Seq1>953569</PreviousComboUser1Seq1>
      <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
      <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
      <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
      <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
      <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
      <GroupName/>
      <OriginalSerialNumber>000000</OriginalSerialNumber>
      <Description1/>
      <Description2/>
      <Description3/>
      <Description4/>
      <CustomerID>North Bank</CustomerID>
      <ATMSerialNumber/>
      <UserDefined1/>
      <UserDefined2/>
      <UserDefined3/>
      <UserDefined4/>
      <Region>KENTUCKY</Region>
      <IfLastRoute1Issued>false</IfLastRoute1Issued>
      <IfLastRoute2Issued>false</IfLastRoute2Issued>
      <IfLastRoute3Issued>false</IfLastRoute3Issued>
      <User1ID1>FLM SHA Key 4</User1ID1>
      <User1ID2/>
      <User1ID3/>
      <User2ID1/>
      <User2ID2/>
      <User2ID3/>
      <RouteName1/>
      <RouteName2/>
      <RouteName3/>
      <DispatcherID1>MHG\LSTALL</DispatcherID1>
      <DispatcherID2/>
      <DispatcherID3/>
      <OpenTime1>2015-04-21T20:14:23.663Z</OpenTime1>
      <OpenTime2/>
      <OpenTime3/>
      <CloseTime1>2015-04-21T20:22:47.033Z</CloseTime1>
      <CloseTime2/>

```

```

<CloseTime3/>
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<IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
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<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
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<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2015-04-21T20:13:55.987Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2015-04-21T20:14:11.027Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
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<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus>resync</LockDispatchStatus>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
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<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
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<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</OriginalLockRecord>
<ResultLockRecord>
  <LockName>Gen2Swingbolt 1000116</LockName>
  <RecordType>A</RecordType>
  <StartDate>2013-11-25T18:40:52.927Z</StartDate>
  <LastUsedDate>2015-04-21T20:22:47.033Z</LastUsedDate>
  <CustomerNumber>532188</CustomerNumber>
  <LockMode>F</LockMode>
  <IfDualMode>false</IfDualMode>
  <SerialNumber>001000116</SerialNumber>
  <AuditCount>7</AuditCount>
  <IfLockOpen>false</IfLockOpen>
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  <IfRoute3Issued>false</IfRoute3Issued>
  <IfNoAlarm>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
  <Seal>12800</Seal>
  <PreviousSeal>9278</PreviousSeal>
  <RouteSeal1>14776</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>9278</PreviousRouteSeal1>
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  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
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  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
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  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName/>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1/>
  <Description2/>
  <Description3/>
  <Description4/>
  <CustomerID>North Bank</CustomerID>

```

```

<ATMSerialNumber/>
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<UserDefined2/>
<UserDefined3/>
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<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
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<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
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<RouteName2/>
<RouteName3/>
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<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2015-04-21T20:14:23.663Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-21T20:22:47.033Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
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<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
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<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
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<PreviousRouteName3/>
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<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2015-04-21T20:14:11.027Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</ResultLockRecord>
</RESPONSE_RESYNC_LOCK_WITH_KEY>
</CentranXMLScript>

```


2.2.26 Lock XML File Transactions - Cancel Lock Dispatch State Resynchronization

CenTran Programming Reference Manual

This transaction cancels the process of resynchronizing a Cencon database entry for a lock mode with a Cencon Gen 2 Lock dispatch state. This transaction can be used if the resynchronization key to be used at the lock was lost or the lock was found not to be out of sync.

After canceling the resynchronization of the lock, the lock is restored to its normal dispatch state. A new resynchronization key can be made or the lock can be dispatched as normal.

Transaction information required:

- Lock Name or Serial Number - The name or serial number of the lock to cancel resynchronization.
- Lock Mode - The mode of the lock to cancel resynchronization.
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the lock record.

Refer to the documentation for [Section 2.2.5 Read Lock Data](#) for details on the lock record data returned.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Lock doesn't exist.
- Lock mode is not in process of being resynchronized.
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.

Example 1 - Success - Cancel Resynchronization By Lock Name

Input Transaction:

```
<CentranXMLScript>
  <TRANSACTION_CANCEL_LOCK_RESYNC>
    <LockName>Gen2Swingbolt 1000116</LockName>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CANCEL_LOCK_RESYNC>
</CentranXMLScript>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_CANCEL_LOCK_RESYNC), a result record (indicating success) and the lock record that had resynchronization cancelled.

```
<CentranXMLScript>
  <RESPONSE_CANCEL_LOCK_RESYNC>
    <TRANSACTION_CANCEL_LOCK_RESYNC>
      <LockName>Gen2Swingbolt 1000116</LockName>
      <LockMode>F</LockMode>
      <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_CANCEL_LOCK_RESYNC>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <IfRetryValid>false</IfRetryValid>
      <Description>Cancel of lock dispatch state resynchronization succeeded.
    </Description>
    </ResultRecord>
    <LockRecord>
      <LockName>Gen2Swingbolt 1000116</LockName>
      <RecordType>A</RecordType>
      <StartDate>2013-11-25T18:40:52.927Z</StartDate>
      <LastUsedDate>2015-04-16T19:47:55.273Z</LastUsedDate>
      <CustomerNumber>532188</CustomerNumber>
      <LockMode>F</LockMode>
      <IfDualMode>false</IfDualMode>
      <SerialNumber>001000116</SerialNumber>
      <AuditCount>6</AuditCount>
      <IfLockOpen>false</IfLockOpen>
      <IfForcedClosed>true</IfForcedClosed>
      <IfRoute1Issued>false</IfRoute1Issued>
      <IfRoute2Issued>false</IfRoute2Issued>
      <IfRoute3Issued>false</IfRoute3Issued>
      <IfNoAlarm>false</IfNoAlarm>
      <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
      <IfActivationCall>false</IfActivationCall>
      <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
      <Seal>14201</Seal>
      <PreviousSeal>18190</PreviousSeal>
      <RouteSeal1>14201</RouteSeal1>
    </LockRecord>
  </RESPONSE_CANCEL_LOCK_RESYNC>
</CentranXMLScript>
```

```
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>18190</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>967020</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>657245</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber/>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>FLM SHA Key 6</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2015-04-16T19:27:53.79Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-16T19:47:55.273Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 6</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2014-10-17T15:38:50.507Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2014-10-17T15:42:36.927Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
```

```

        <DisplayIssuedComboUser2Seq2/>
        <DisplayIssuedComboUser2Seq3/>
        <CloseSealLength>4</CloseSealLength>
    </LockRecord>
</RESPONSE_CANCEL_LOCK_RESYNC>
</CentranXMLScript>

```

Example 2 - Success - Cancel Resynchronization By Lock Serial Number

Input Transaction:

```

<CentranXMLScript>
    <TRANSACTION_CANCEL_LOCK_RESYNC>
        <SerialNumber>1000116</SerialNumber>
        <LockMode>F</LockMode>
        <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_CANCEL_LOCK_RESYNC>
</CentranXMLScript>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_CANCEL_LOCK_RESYNC), a result record (indicating success) and the lock record that had resynchronization cancelled.

```

<CentranXMLScript>
    <RESPONSE_CANCEL_LOCK_RESYNC>
        <TRANSACTION_CANCEL_LOCK_RESYNC>
            <SerialNumber>1000116</SerialNumber>
            <LockMode>F</LockMode>
            <DispatcherID>CentranSS</DispatcherID>
        </TRANSACTION_CANCEL_LOCK_RESYNC>
        <ResultRecord>
            <Result>Success</Result>
            <ErrorCode>RC_OK</ErrorCode>
            <IfRetryValid>>false</IfRetryValid>
            <Description>Cancel of lock dispatch state resynchronization succeeded.
        </Description>
        </ResultRecord>
        <LockRecord>
            <LockName>Gen2Swingbolt 1000116</LockName>
            <RecordType>A</RecordType>
            <StartDate>2013-11-25T18:40:52.927Z</StartDate>
            <LastUsedDate>2015-04-16T19:47:55.273Z</LastUsedDate>
            <CustomerNumber>532188</CustomerNumber>
            <LockMode>F</LockMode>
            <IfDualMode>>false</IfDualMode>
            <SerialNumber>001000116</SerialNumber>
            <AuditCount>6</AuditCount>
            <IfLockOpen>>false</IfLockOpen>
            <IfForcedClosed>>true</IfForcedClosed>
            <IfRoute1Issued>>false</IfRoute1Issued>
            <IfRoute2Issued>>false</IfRoute2Issued>
            <IfRoute3Issued>>false</IfRoute3Issued>
            <IfNoAlarm>>false</IfNoAlarm>
            <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
            <IfActivationCall>>false</IfActivationCall>
            <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
            <Seal>14201</Seal>
            <PreviousSeal>18190</PreviousSeal>
            <RouteSeal1>14201</RouteSeal1>
            <RouteSeal2>0</RouteSeal2>
            <RouteSeal3>0</RouteSeal3>
            <PreviousRouteSeal1>18190</PreviousRouteSeal1>
            <PreviousRouteSeal2>0</PreviousRouteSeal2>
            <PreviousRouteSeal3>0</PreviousRouteSeal3>
            <OpenTries1>0</OpenTries1>
            <OpenTries2>0</OpenTries2>
            <OpenTries3>0</OpenTries3>
            <TransferReturnCode>0</TransferReturnCode>
            <IssuedComboUser1Seq1>967020</IssuedComboUser1Seq1>
            <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
            <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
            <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
            <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
            <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
            <PreviousComboUser1Seq1>657245</PreviousComboUser1Seq1>
            <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
            <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
            <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
            <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
            <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
            <GroupName/>
            <OriginalSerialNumber>000000</OriginalSerialNumber>
            <Description1/>
            <Description2/>
            <Description3/>
            <Description4/>
            <CustomerID>North Bank</CustomerID>
            <ATMSerialNumber/>
        </LockRecord>
    </RESPONSE_CANCEL_LOCK_RESYNC>
</CentranXMLScript>

```

```

<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>FLM SHA Key 6</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2015-04-16T19:27:53.79Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-16T19:47:55.273Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 6</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2014-10-17T15:38:50.507Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2014-10-17T15:42:36.927Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_CANCEL_LOCK_RESYNC>
</CentranXMLScript>

```

Example 3 - Failure

Input Transaction:

```

<CentranXMLScript>
  <TRANSACTION_CANCEL_LOCK_RESYNC>
    <LockName>VLK678</LockName>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CANCEL_LOCK_RESYNC>
</CentranXMLScript>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_CANCEL_LOCK_RESYNC), a result record indicating failure with an error code (RC_ERR_RESYNC_DISPATCHING_CANCEL_NOT_GEN2_LOCK) and description. In this

case, the lock is not a Cencon Gen 2 Lock, so it does not support resynchronize dispatching.

```
<CentranXMLScript>
  <RESPONSE CANCEL LOCK RESYNC>
    <TRANSACTION CANCEL LOCK RESYNC>
      <LockName>VLK678</LockName>
      <LockMode>F</LockMode>
      <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION CANCEL LOCK RESYNC>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_ERR_RESYNC_DISPATCHING_CANCEL_NOT_GEN2_LOCK</ErrorCode>
      <IfRetryValid>>false</IfRetryValid>
      <Description>Failed to cancel resynchronize lock dispatching! The current lock is
not a Cencon Gen 2 lock. The older Cencon Gen1 lock does not support this operation.
</Description>
    </ResultRecord>
    <LockRecord>
      <LockName>VLK678</LockName>
      <RecordType>P</RecordType>
      <StartDate>2012-09-12T16:54:49.557Z</StartDate>
      <LastUsedDate>2013-02-12T20:14:37.837Z</LastUsedDate>
      <CustomerNumber>491041</CustomerNumber>
      <LockMode>F</LockMode>
      <IfDualMode>>false</IfDualMode>
      <SerialNumber>512678</SerialNumber>
      <AuditCount>2</AuditCount>
      <IfLockOpen>>false</IfLockOpen>
      <IfForcedClosed>>false</IfForcedClosed>
      <IfRoute1Issued>>false</IfRoute1Issued>
      <IfRoute2Issued>>false</IfRoute2Issued>
      <IfRoute3Issued>>false</IfRoute3Issued>
      <IfNoAlarm>>false</IfNoAlarm>
      <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
      <IfActivationCall>>false</IfActivationCall>
      <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
      <Seal>38</Seal>
      <PreviousSeal>39</PreviousSeal>
      <RouteSeal1>38</RouteSeal1>
      <RouteSeal2>0</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>0</PreviousRouteSeal1>
      <PreviousRouteSeal2>0</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>0</OpenTries2>
      <OpenTries3>0</OpenTries3>
      <TransferReturnCode>0</TransferReturnCode>
      <IssuedComboUser1Seq1>211940</IssuedComboUser1Seq1>
      <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
      <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
      <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
      <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
      <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
      <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
      <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
      <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
      <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
      <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
      <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
      <GroupName/>
      <OriginalSerialNumber>000000</OriginalSerialNumber>
      <Description1/>
      <Description2/>
      <Description3/>
      <Description4/>
      <CustomerID>North Bank</CustomerID>
      <ATMSerialNumber/>
      <UserDefined1/>
      <UserDefined2/>
      <UserDefined3/>
      <UserDefined4/>
      <Region>KENTUCKY</Region>
      <IfLastRoute1Issued>>false</IfLastRoute1Issued>
      <IfLastRoute2Issued>>false</IfLastRoute2Issued>
      <IfLastRoute3Issued>>false</IfLastRoute3Issued>
      <User1ID1>nfl</User1ID1>
      <User1ID2/>
      <User1ID3/>
      <User2ID1/>
      <User2ID2/>
      <User2ID3/>
      <RouteName1/>
      <RouteName2/>
      <RouteName3/>
      <DispatcherID1>CentranSS</DispatcherID1>
      <DispatcherID2/>
      <DispatcherID3/>
      <OpenTime1>2013-02-12T20:12:49.167Z</OpenTime1>
      <OpenTime2/>
      <OpenTime3/>
      <CloseTime1>2013-02-12T20:14:37.837Z</CloseTime1>
      <CloseTime2/>
      <CloseTime3/>
      <IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
```

```

<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch/>
<Address1/>
<Address2/>
<City/>
<State/>
<ZIP/>
<Country/>
<KeyCloseSeal>39</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen1</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress/>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>2</CloseSealLength>
</LockRecord>
</RESPONSE_CANCEL_LOCK_RESYNC>
</CentranXMLScript>

```

2.2.27 Lock XML File Transactions - Initialize Lock Time Set Key

CenTran Programming Reference Manual

This transaction is used to initialize a lock time set key in the specified Cencon keybox. A white hour glass shaped key, iButton model DS1922, is required.

Transaction information required:

- Time Zone ID (Optional)- Unique Identifier for the time zone to use for generating the daylight savings time table to be written to the key.

The lock time set key sets the time at the lock and also updates the daylight savings time transition table on the lock. This daylight savings time transition table is generated based on the specified time zone. If a time zone is not specified, then the CenTran server time zone is used.

The lock time set key contains a table of 40 entries sufficient for 20 years of daylight savings times transitions. Each lock mode of the Cencon lock uses this table to convert from the lock clock in UTC (Coordinated Universal Time) to the current local time.

- IP Address and Port - Specifies the keybox to connect to from CenTran to initialize the key.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to initialize the key. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the key serial number information.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Incorrect model of key is present in the keybox reader slot.
- No key is present in the keybox reader slot.
- Invalid time zone specified.

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example - Success without specified time zone, using Cencon Keybox IP address:

Input Transaction:

```
<CentranXMLScript>
  <TRANSACTION_INIT_LOCK_TIME_SET_KEY>
    <IPAddress>10.108.6.94:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_INIT_LOCK_TIME_SET_KEY>
</CentranXMLScript>
```

Output Transaction:

```
<CentranXMLScript>
  <RESPONSE_INIT_LOCK_TIME_SET_KEY>
    <TRANSACTION_INIT_LOCK_TIME_SET_KEY>
```



```

        <IPAddress>10.108.6.94:53003</IPAddress>
        <CommunicationsID/>
        <CommunicationsMethod>Tcp</CommunicationsMethod>
        <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_INIT_LOCK_TIME_SET_KEY>
    <ResultRecord>
        <Result>Success</Result>
        <ErrorCode>RC_OK</ErrorCode>
        <IfRetryValid>false</IfRetryValid>
        <Description>Initialize lock time set key succeeded.</Description>
    </ResultRecord>
    <KeyInformation>
        <KeyID>0000000CCCA1</KeyID>
        <CanType>41</CanType>
    </KeyInformation>
</RESPONSE_INIT_LOCK_TIME_SET_KEY>
</CentranXMLScript>

```

Example - Success with specified time zone, using Cencon Keybox persistent connection Identifier:

Input Transaction:

```

<CentranXMLScript>
    <TRANSACTION_INIT_LOCK_TIME_SET_KEY>
        <TimeZoneID>Vladivostok Standard Time</TimeZoneID>
        <IPAddress/>
        <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
        <CommunicationsMethod>TcpClient</CommunicationsMethod>
        <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_INIT_LOCK_TIME_SET_KEY>
</CentranXMLScript>

```

Output Transaction:

```

<CentranXMLScript>
    <RESPONSE_INIT_LOCK_TIME_SET_KEY>
        <TRANSACTION_INIT_LOCK_TIME_SET_KEY>
            <TimeZoneID>Vladivostok Standard Time</TimeZoneID>
            <IPAddress/>
            <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
            <CommunicationsMethod>TcpClient</CommunicationsMethod>
            <DispatcherID>CentranSS</DispatcherID>
        </TRANSACTION_INIT_LOCK_TIME_SET_KEY>
        <ResultRecord>
            <Result>Success</Result>
            <ErrorCode>RC_OK</ErrorCode>
            <IfRetryValid>false</IfRetryValid>
            <Description>Initialize lock time set key succeeded.</Description>
        </ResultRecord>
        <KeyInformation>
            <KeyID>0000000CCCA1</KeyID>
            <CanType>41</CanType>
        </KeyInformation>
    </RESPONSE_INIT_LOCK_TIME_SET_KEY>
</CentranXMLScript>

```

Example - Failure due to wrong type of key, using Cencon Keybox persistent connection Identifier:

Input Transaction:

```

<CentranXMLScript>
    <TRANSACTION_INIT_LOCK_TIME_SET_KEY>
        <IPAddress/>
        <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
        <CommunicationsMethod>TcpClient</CommunicationsMethod>
        <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_INIT_LOCK_TIME_SET_KEY>
</CentranXMLScript>

```

Output Transaction:

```

<CentranXMLScript>
    <RESPONSE_INIT_LOCK_TIME_SET_KEY>
        <TRANSACTION_INIT_LOCK_TIME_SET_KEY>
            <IPAddress/>
            <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
            <CommunicationsMethod>TcpClient</CommunicationsMethod>
            <DispatcherID>CentranSS</DispatcherID>
        </TRANSACTION_INIT_LOCK_TIME_SET_KEY>
        <ResultRecord>
            <Result>Failure</Result>
            <ErrorCode>RC_ERR_INIT_TIME_SET_KEY_INVALID_KEY_MODEL</ErrorCode>
            <IfRetryValid>false</IfRetryValid>
            <Description>Failed to initialize clock set key! The key is not a DS1922 clock set
key.</Description>
        </ResultRecord>
        <KeyInformation>
            <KeyID>0000006AA657</KeyID>

```

```
<CanType>18</CanType>
</KeyInformation>
</RESPONSE_INIT_LOCK_TIME_SET_KEY>
</CentranXMLScript>
```

2.2.28 Lock XML File Transactions - Read Time Set Key

CenTran Programming Reference Manual

This transaction is used to read the lock time set key in the specified Cencon keybox. It returns the time set key clock time, server time for comparison, time time zone ID written to the key, and the daylight savings time transition table on the key.

Transaction information required:

- IP Address and Port - Specifies the keybox to connect to from CenTran to read the key from.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Input transaction
- Result record indicating success
- Key serial number and model information
- Time set key clock time (UTC)
- Server time for comparison (UTC)
- Measured time drift of the key from server time (Seconds)
- IfKeyClockIsEnabled flag indicating if the key clock is running correctly.
- Key time zone ID. Up to 64 character string in ASCII. The string stored on the key does not support internationalization.
- Array of up to 40 entries of daylight savings time transition records for the lock conversion to local time.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- The key in the keybox reader slot is not a lock time set key.
- No key is present in the keybox reader slot.
- The data on the key has been corrupted.

Daylight Savings Time Transition Record:

- TransitionTime - Specifies the time that transition takes affect for calculating local time from the lock clock UTC. The daylight savings time transition is used if the current lock clock UTC time is equal to or greater than the transition time, and the lock clock UTC time is less than the next entry transition time in the table.
- TimeZoneBias - Specifies an integer bias from UTC time in minutes for the local time zone daylight savings time, in minutes. This integer value can be positive or negative.

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example - Success. Key is read using persistent network connection ID for keybox.

Note: Key is initialized with Vladivostok Standard Time, which uses a single fixed bias for daylight savings time.

Input Transaction:

```
<CentranXMLScript>
  <TRANSACTION_READ_LOCK_TIME_SET_KEY>
    <IPAddress/>
```

```

    <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK_TIME_SET_KEY>
</CentranXMLScript>

```

Output Transaction:

```

<CentranXMLScript>
  <RESPONSE_READ_LOCK_TIME_SET_KEY>
    <TRANSACTION_READ_LOCK_TIME_SET_KEY>
      <IPAddress/>
      <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
      <CommunicationsMethod>TcpClient</CommunicationsMethod>
      <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_READ_LOCK_TIME_SET_KEY>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <IfRetryValid>false</IfRetryValid>
      <Description>Read of lock time set key succeeded.</Description>
    </ResultRecord>
    <KeyInformation>
      <KeyID>0000000CCCA1</KeyID>
      <CanType>41</CanType>
    </KeyInformation>
    <KeyDateTimeUTC>2015-04-21T14:41:28Z</KeyDateTimeUTC>
    <ServerDateTimeUTC>2015-04-21T14:41:30.97Z</ServerDateTimeUTC>
    <KeyTimeDriftSeconds>-2</KeyTimeDriftSeconds>
    <IfKeyClockIsEnabled>true</IfKeyClockIsEnabled>
    <KeyTimeZoneID>Vladivostok Standard Time</KeyTimeZoneID>
    <DaylightSavingsTimeTransitionRecord>
      <TransitionTime>2000-01-01T00:00:00Z</TransitionTime>
      <TimeZoneBias>600</TimeZoneBias>
    </DaylightSavingsTimeTransitionRecord>
  </RESPONSE_READ_LOCK_TIME_SET_KEY>
</CentranXMLScript>

```

Example - Success. Key is read using direct IP address for keybox.

Note: Key is initialized with Eastern Standard Time.

Input Transaction:

```

<CentranXMLScript>
  <TRANSACTION_READ_LOCK_TIME_SET_KEY>
    <IPAddress>10.108.6.94:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK_TIME_SET_KEY>
</CentranXMLScript>

```

Output Transaction:

```

<CentranXMLScript>
  <RESPONSE_READ_LOCK_TIME_SET_KEY>
    <TRANSACTION_READ_LOCK_TIME_SET_KEY>
      <IPAddress>10.108.6.94:53003</IPAddress>
      <CommunicationsID/>
      <CommunicationsMethod>Tcp</CommunicationsMethod>
      <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_READ_LOCK_TIME_SET_KEY>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <IfRetryValid>false</IfRetryValid>
      <Description>Read of lock time set key succeeded.</Description>
    </ResultRecord>
    <KeyInformation>
      <KeyID>0000000CCCA1</KeyID>
      <CanType>41</CanType>
    </KeyInformation>
    <KeyDateTimeUTC>2015-04-21T14:13:01Z</KeyDateTimeUTC>
    <ServerDateTimeUTC>2015-04-21T14:13:01.177Z</ServerDateTimeUTC>
    <KeyTimeDriftSeconds>0</KeyTimeDriftSeconds>
    <IfKeyClockIsEnabled>true</IfKeyClockIsEnabled>
    <KeyTimeZoneID>Eastern Standard Time</KeyTimeZoneID>
    <DaylightSavingsTimeTransitionRecord>
      <TransitionTime>2000-01-01T00:00:00Z</TransitionTime>
      <TimeZoneBias>-240</TimeZoneBias>
    </DaylightSavingsTimeTransitionRecord>
    <DaylightSavingsTimeTransitionRecord>
      <TransitionTime>2015-03-08T07:00:00Z</TransitionTime>
      <TimeZoneBias>-240</TimeZoneBias>
    </DaylightSavingsTimeTransitionRecord>
    <DaylightSavingsTimeTransitionRecord>
      <TransitionTime>2015-11-01T06:00:00Z</TransitionTime>
      <TimeZoneBias>-300</TimeZoneBias>
    </DaylightSavingsTimeTransitionRecord>
    <DaylightSavingsTimeTransitionRecord>
      <TransitionTime>2016-03-13T07:00:00Z</TransitionTime>

```

[illegible]

```

</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2028-11-05T06:00:00Z</TransitionTime>
  <TimeZoneBias>-300</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2029-03-11T07:00:00Z</TransitionTime>
  <TimeZoneBias>-240</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2029-11-04T06:00:00Z</TransitionTime>
  <TimeZoneBias>-300</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2030-03-10T07:00:00Z</TransitionTime>
  <TimeZoneBias>-240</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2030-11-03T06:00:00Z</TransitionTime>
  <TimeZoneBias>-300</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2031-03-09T07:00:00Z</TransitionTime>
  <TimeZoneBias>-240</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2031-11-02T06:00:00Z</TransitionTime>
  <TimeZoneBias>-300</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2032-03-14T07:00:00Z</TransitionTime>
  <TimeZoneBias>-240</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2032-11-07T06:00:00Z</TransitionTime>
  <TimeZoneBias>-300</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2033-03-13T07:00:00Z</TransitionTime>
  <TimeZoneBias>-240</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2033-11-06T06:00:00Z</TransitionTime>
  <TimeZoneBias>-300</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2034-03-12T07:00:00Z</TransitionTime>
  <TimeZoneBias>-240</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
</RESPONSE_READ_LOCK_TIME_SET_KEY>
</CentranXMLScript>

```

2.3.1 Route XML File Transactions - Add Route

CenTran Programming Reference Manual

This transaction adds a route to the database. If the route exists, its data can be overwritten if the allow overwrite flag is set in the input transaction file.

Transaction information required:

- Route Name
- Customer ID (A valid Customer ID is either empty or a value corresponding to one of the Customer IDs in the customer table)
- Region (If region control is enabled, region has to be non-empty and should correspond to one of the entries in the region table. If region control is not enabled, region can be empty but any non-empty value should correspond to one of the entries in the region table.)
- If Allow Overwrite (Optional) - Flag to allow overwrite of existing route. All details except route 'Creation Date' are overwritten.
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.
- Route name is empty
- Customer ID not found
- Region not found
- Region control is enabled but region is empty

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ADD_ROUTE>
  <RouteRecord>
    <!-- char string -->
    <RouteName>CentranRoute</RouteName>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <Region>TestRegionD</Region>
  </RouteRecord>
  <!-- bool -->
  <IfAllowOverwrite>false</IfAllowOverwrite>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_ADD_ROUTE) and a result record (indicating success).

```
<RESPONSE_ADD_ROUTE>
  <TRANSACTION_ADD_ROUTE xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RouteRecord>
      <RouteName>CentranRoute</RouteName>
      <CustomerID>ACustomer</CustomerID>
      <Region>TestRegionD</Region>
    </RouteRecord>
    <IfAllowOverwrite>false</IfAllowOverwrite>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route CentranRoute successfully added to the database.
  </Description>
  </ResultRecord>
</RESPONSE_ADD_ROUTE>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_ADD_ROUTE>
  <RouteRecord>
    <!-- char string -->
    <RouteName>CentranRoute</RouteName>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <Region>NoRegion</Region>
  </RouteRecord>
```



```
<!-- bool -->
<IfAllowOverwrite>true</IfAllowOverwrite>
<!-- char string -->
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_ADD_ROUTE), a result record indicating failure with an error code (RC_ERR_REGION_DOESNT_EXIST) and description.

```
<RESPONSE_ADD_ROUTE>
  <TRANSACTION_ADD_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteRecord>
      <RouteName>CentranRoute</RouteName>
      <CustomerID>ACustomer</CustomerID>
      <Region>NoRegion</Region>
    </RouteRecord>
    <IfAllowOverwrite>true</IfAllowOverwrite>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_REGION_DOESNT_EXIST</ErrorCode>
    <Description>Region NoRegion does not exist in the region table.</Description>
  </ResultRecord>
</RESPONSE_ADD_ROUTE>
```

2.3.2 Route XML File Transactions - Read a Route

CenTran Programming Reference Manual

This transaction reads a route and all the locks on the route from the database.

Transaction information required:

- Route Name
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, a result record (result, error code and description), the complete route record and all route lock records on the route.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Route does not exist.
- Dispatcher not authorized to do this operation.
- Not authorized due to region (region control active).
- Route lock table can't be opened.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_READ_ROUTE>
  <!-- char string -->
  <RouteName>TestRte5 </RouteName>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_READ_ROUTE), a result record (indicating success), the complete route record and all the route lock records found on the route. If no route lock records are found, a comment is placed after the route record indicating that no locks have been found on the route.

```
<RESPONSE_READ_ROUTE>
  <TRANSACTION_READ_ROUTE xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RouteName>TestRte5</RouteName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route TestRte5 found and read from the route table.
  </Description>
  </ResultRecord>
  <RouteRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <RouteName>TestRte5</RouteName>
    <CreationDate>2004-12-25T15:49:18</CreationDate>
    <CustomerID>ACustomer</CustomerID>
    <Region />
  </RouteRecord>
  <!--The following locks have been found on the route:-->
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK015</LockName>
    <User1ID>rzjane</User1ID>
    <User2ID>rzjohn</User2ID>
    <RouteName>TestRte5</RouteName>
    <OpenDate>2004-12-22T15:49:18</OpenDate>
    <CloseDate>2004-12-25T15:49:18</CloseDate>
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
</RESPONSE_READ_ROUTE>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_READ_ROUTE>
  <!-- char string -->
  <RouteName>CentranRoute</RouteName>
  <!-- char string -->
  <DispatcherID>SuperUserLocalRegion</DispatcherID>
</TRANSACTION_READ_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_READ_ROUTE), a result record indicating failure with an error code (RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_ROUTE_REGION) and description. In this case, the dispatcher belongs to a local (as against global) region different from the route's region.

```
<RESPONSE_READ_ROUTE>
  <TRANSACTION_READ_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>CentranRoute</RouteName>
    <DispatcherID>SuperUserLocalRegion</DispatcherID>
  </TRANSACTION_READ_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_ROUTE_REGION</ErrorCode>
    <Description>Dispatcher belongs to a local region. The dispatcher's
      region does not match the route's region.
    </Description>
  </ResultRecord>
</RESPONSE_READ_ROUTE>
```

2.3.3 Route XML File Transactions - Update a Route

CenTran Programming Reference Manual

This transaction updates data for an existing route in the database. The route fields to be updated have to be specified in the input transaction. Those route fields that are not specified in the input transaction are not changed from their current values.

Transaction information required:

- Route Name
- Customer ID (Optional) – The new value for this field
- Region (Optional) – The new value for this field
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, a result record (result, error code and description) and the updated route record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Route doesn't exist.
- Invalid Customer ID (Customer ID not found in database).
- Invalid Region (Region not found in database)
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.
- Input transaction file has validation errors against the schema or the required input fields have an empty or invalid value.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_UPDATE_ROUTE>
  <UpdateRouteRecord>
    <!-- char string -->
    <RouteName>CentranRoute</RouteName>
    <!-- char string -->
    <CustomerID>some customerid</CustomerID>
    <!-- char string -->
    <Region>TestRegionD</Region>
  </UpdateRouteRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_UPDATE_ROUTE), a result record (indicating success) and the updated route record with new Customer ID and Region values.

```
<RESPONSE_UPDATE_ROUTE>
  <TRANSACTION_UPDATE_ROUTE xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <UpdateRouteRecord>
      <RouteName>CentranRoute</RouteName>
      <CustomerID>some customerid</CustomerID>
      <Region>TestRegionD</Region>
    </UpdateRouteRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route CentranRoute data successfully updated.</Description>
  </ResultRecord>
  <RouteRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <RouteName>CentranRoute</RouteName>
    <CreationDate>2009-02-16T20:27:53</CreationDate>
    <CustomerID>some customerid</CustomerID>
    <Region>TestRegionD</Region>
  </RouteRecord>
</RESPONSE_UPDATE_ROUTE>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_UPDATE_ROUTE>
  <UpdateRouteRecord>
    <!-- char string -->
    <RouteName>CentranRoute</RouteName>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <Region>TestRegionC</Region>
  </UpdateRouteRecord>
  <!-- char string -->
```

```
<DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_UPDATE_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_UPDATE_ROUTE), a result record indicating failure with an error code (RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_ROUTE_NEW_REGION) and description. Here, the dispatcher's region is local (in scope as opposed to global) and different from that of the new region for the route. An update route transaction would also fail if the dispatcher's region is local and different from the route's current region.

```
<RESPONSE_UPDATE_ROUTE>
  <TRANSACTION_UPDATE_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UpdateRouteRecord>
      <RouteName>CentranRoute</RouteName>
      <CustomerID>ACustomer</CustomerID>
      <Region>TestRegionC</Region>
    </UpdateRouteRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_UPDATE_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_
ROUTE_NEW_REGION</ErrorCode>
    <Description>Dispatcher belongs to a local region.
The dispatcher's region does not match the route's new region.
    </Description>
  </ResultRecord>
</RESPONSE_UPDATE_ROUTE>
```

2.3.4 Route XML File Transactions - Delete a Route

CenTran Programming Reference Manual

This transaction deletes a route from the database. It also deletes the route lock entries for this route from the route lock table.

Transaction information required:

- Route Name
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Route doesn't exist.
- Failed to delete from route table.
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_DELETE_ROUTE>
  <!-- char string -->
  <RouteName>CentranRoute</RouteName>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_DELETE_ROUTE), a result record (indicating success).

```
<RESPONSE_DELETE_ROUTE>
  <TRANSACTION_DELETE_ROUTE xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RouteName>CentranRoute</RouteName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route CentranRoute has been deleted successfully.</Description>
  </ResultRecord>
</RESPONSE_DELETE_ROUTE>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_DELETE_ROUTE>
  <!-- char string -->
  <RouteName>123456</RouteName>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_DELETE_ROUTE), a result record indicating failure with an error code (RC_ERR_ROUTE_NOT_FOUND) and description.

```
<RESPONSE_DELETE_ROUTE>
  <TRANSACTION_DELETE_ROUTE xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RouteName>123456</RouteName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_ROUTE_NOT_FOUND</ErrorCode>
    <Description>Failed to find route 123456 in the route table.
    </Description>
  </ResultRecord>
</RESPONSE_DELETE_ROUTE>
```


2.3.5 Route XML File Transactions - Add Locks to a Route

CenTran Programming Reference Manual

This transaction adds locks to an existing route in the database. The locks to be added are specified as route lock records (as defined in the schema) in the input transaction file.

Transaction information required:

- Route Name
- Array of Lock Records to be added to the route:
 - Lock Name
 - Lock Sequence
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and an array of route locks with a result record for each lock.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all locks were added successfully). In this case the error code for the transaction would be RC_OK.

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and an array of result records (one result record for each lock) with those route lock records that were added successfully to the database.

NOTE: The result record for the whole transaction has as its result 'Failure' if the transaction is a partial success (some locks were added successfully and the others failed) or if the transaction is a complete failure (none of the locks were added to the route). In the case of partial success, the error code for the transaction would be RC_PARTIAL_OK and in case of complete failure the error code for the transaction would be RC_NOT_OK.

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Route doesn't exist.
- Locks don't exist.
- Locks invalid (not in Active or Install mode).
- Dispatcher and route belong to different regions.
- Not authorized due to authorization role.
- Route and lock belong to different regions

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ADD_LOCKS_ROUTE>
  <!-- char string -->
  <RouteName>TestRte4</RouteName>
  <!-- route lock record -->
  <RouteLockRecord>
    <LockName>VLK016</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <!-- route lock record -->
  <RouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>2</LockSequence>
  </RouteLockRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_LOCKS_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_ADD_LOCKS_ROUTE), a result record (indicating success) followed by result records for each lock. The locks that were added to the route lock table have their route lock records retrieved from the table and appended to the end of their result records. The output transaction has one or more RouteLockRecordWithResult parent elements, which is an output unit for each lock record specified in the input file. The unit contains a result record followed by the retrieved route lock record.

```
<RESPONSE_ADD_LOCKS_ROUTE>
  <TRANSACTION_ADD_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <RouteLockRecord>
      <LockName>VLK016</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
      <LockName>VLK015</LockName>
      <LockSequence>2</LockSequence>
    </RouteLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>All specified locks have been added to the route.
    </Description>
  </ResultRecord>
  <RouteLockRecordWithResult>
    <ResultRecord>
      <Result>Success</Result>
```

```

        <ErrorCode>RC_OK</ErrorCode>
        <Description>Lock VLK016, sequence 1 added
        successfully to the route lock table.
        </Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK016</LockName>
        <User1ID />
        <User2ID />
        <RouteName>TestRte4</RouteName>
        <OpenDate xsi:nil="true" />
        <CloseDate xsi:nil="true" />
        <LockSequence>1</LockSequence>
        <DispatchOrder>0</DispatchOrder>
        <ResultCode>0</ResultCode>
        <IfCloseSealDuress>0</IfCloseSealDuress>
        <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
</RouteLockRecordWithResult>
<RouteLockRecordWithResult>
    <ResultRecord>
        <Result>Success</Result>
        <ErrorCode>RC_OK</ErrorCode>
        <Description>Lock VLK015, sequence 2 added successfully to the route lock table.
        </Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK015</LockName>
        <User1ID />
        <User2ID />
        <RouteName>TestRte4</RouteName>
        <OpenDate xsi:nil="true" />
        <CloseDate xsi:nil="true" />
        <LockSequence>2</LockSequence>
        <DispatchOrder>0</DispatchOrder>
        <ResultCode>0</ResultCode>
        <IfCloseSealDuress>0</IfCloseSealDuress>
        <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
</RouteLockRecordWithResult>
</RESPONSE_ADD_LOCKS_ROUTE>

```

Example 2 - Partial Failure

Input Transaction:

```

<TRANSACTION_ADD_LOCKS_ROUTE>
<!-- char string -->
<RouteName>TestRte4</RouteName>
<!-- route lock record -->
<RouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>1</LockSequence>
</RouteLockRecord>
<!-- route lock record -->
<RouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>1</LockSequence>
</RouteLockRecord>
<!-- char string -->
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_LOCKS_ROUTE>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_ADD_LOCKS_ROUTE), a result record (indicating failure with an error code of RC_PARTIAL_OK) for the transaction followed by result records for each lock. Those locks that could be added to the route lock table have their route lock records retrieved from the table and appended to the end of their result records. The output transaction has one or more RouteLockRecordWithResult parent elements, which is an output unit for each lock record specified in the input file. The unit contains a result record followed by the retrieved route lock record (if result is success) and just the result record (if result is failure).

```

<RESPONSE_ADD_LOCKS_ROUTE>
    <TRANSACTION_ADD_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
        <RouteName>TestRte4</RouteName>
        <RouteLockRecord>
            <LockName>VLK014</LockName>
            <LockSequence>1</LockSequence>
        </RouteLockRecord>
        <RouteLockRecord>
            <LockName>VLK015</LockName>
            <LockSequence>1</LockSequence>
        </RouteLockRecord>
        <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_ADD_LOCKS_ROUTE>
    <ResultRecord>
        <Result>Failure</Result>
        <ErrorCode>RC_PARTIAL_OK</ErrorCode>
        <Description>Not all specified locks could be added to the route.
        </Description>
    </ResultRecord>

```

```

<RouteLockRecordWithResult>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FAILED_ADD_ROUTE_LOCK_ALREADY_EXISTS</ErrorCode>
    <Description>Route lock record with lock name VLK014,
sequence 1 already exists in the database.
    </Description>
  </ResultRecord>
</RouteLockRecordWithResult>
<RouteLockRecordWithResult>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLK015, sequence 1 added successfully to the route lock table.
    </Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK015</LockName>
    <User1ID />
    <User2ID />
    <RouteName>TestRte4</RouteName>
    <OpenDate xsi:nil="true" />
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
</RouteLockRecordWithResult>
</RESPONSE_ADD_LOCKS_ROUTE>

```

Example 3 - Failure

Input Transaction:

```

<TRANSACTION_ADD_LOCKS_ROUTE>
  <!-- char string -->
  <RouteName>TestRte4</RouteName>
  <!-- route lock record -->
  <RouteLockRecord>
    <LockName>VLK009</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <!-- route lock record -->
  <RouteLockRecord>
    <LockName>VLKShelved</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_LOCKS_ROUTE>

```

Output Transaction:

The output transaction has the original input transaction (TRANSACTION_ADD_LOCKS_ROUTE), a result record (indicating failure) followed by result records for each lock that could not be added to the route.

```

<RESPONSE_ADD_LOCKS_ROUTE>
  <TRANSACTION_ADD_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <RouteLockRecord>
      <LockName>VLK009</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
      <LockName>VLKShelved</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_NOT_OK</ErrorCode>
    <Description>None of the specified locks could be added to the route.</Description>
  </ResultRecord>
  <RouteLockRecordWithResult>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_ERR_LOCK_ROUTE_REGION_MISMATCH</ErrorCode>
      <Description>The lock's region does not match the route's region.</Description>
    </ResultRecord>
  </RouteLockRecordWithResult>
  <RouteLockRecordWithResult>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_ERR_INVALID_LOCK_REC_RECTYPE</ErrorCode>
      <Description>Lock VLKShelved is neither in Active mode nor in Install mode.
    </Description>
    </ResultRecord>
  </RouteLockRecordWithResult>
</RESPONSE_ADD_LOCKS_ROUTE>

```


2.3.6 Route XML File Transactions - Read Locks on a Route

CenTran Programming Reference Manual

This transaction reads data for locks on a route either from the database or from a route file. If successful, the output would include both the route lock record and the corresponding lock record for each lock on the route.

Transaction information required:

- Route Name
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole. No route information (route lock, lock records) would be retrieved if the transaction failed due to reasons like lack of authorization or invalid route name. If the pre-requisites like authorization, valid route name are satisfied, the route information retrieved for each lock on the route has a route lock record (if found in database or route file), lock record (if found in database) and result record.

NOTE: The result record for the whole transaction has as its result 'Failure' if the transaction is a partial success (only some of the locks were read successfully) or if the transaction is a complete failure (none of the locks were read successfully). In the case of partial success, the error code for the transaction would be RC_PARTIAL_OK and in case of complete failure the error code for the transaction would be RC_NOT_OK. A lock may not be read successfully if, for example the route lock exists but the matching lock record does not.

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Route does not exist.
- Invalid route name.
- All locks on route don't exist.
- Dispatcher and route belong to different regions (route belongs to a database).
- Not authorized due to authorization role.
- Validation error.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_READ_LOCKS_ROUTE>
  <!-- char string -->
  <RouteName>TestRte4</RouteName>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_LOCKS_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_READ_LOCKS_ROUTE), a result record (indicating success) followed by data for each lock on the route. The output unit for each lock found on the route is LockRecordAndRouteLockRecord which consists of a result record, lock record and route lock record.

```
<RESPONSE_READ_LOCKS_ROUTE>
  <TRANSACTION_READ_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>All locks defined on the route were found and read.
  </Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <Description>Lock record found.</Description>
    </ResultRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK014</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T21:17:28</StartDate>
      <LastUsedDate>2009-02-16T23:52:39</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <IfLockOpen>0</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>1</IfRoute1Issued>
      <IfRoute2Issued>0</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
      <SerialNumber>532214</SerialNumber>
      <CloseSeal>113</CloseSeal>
      <PreviousSeal>113</PreviousSeal>
```

```

<RouteSeal1>152</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>113</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>956628</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>363809</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>7</AuditCount>
<GroupName>some gro</GroupName>
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2>dddddddddddddd</Description2>
<Description3>dddddddddddddd</Description3>
<Description4>dddddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>MHG\agoverdhan</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-16T23:52:39.744Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rbob</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRoute1</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2005-02-22T13:50:15.422Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2005-02-22T14:41:44.854Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK014</LockName>
  <User1ID>rzjill</User1ID>
  <User2ID />
  <RouteName>TestRte4</RouteName>

```

```

        <OpenDate>2009-02-16T23:52:39.784Z</OpenDate>
        <CloseDate xsi:nil="true" />
        <LockSequence>1</LockSequence>
        <DispatchOrder>0</DispatchOrder>
        <ResultCode>0</ResultCode>
        <IfCloseSealDuress>0</IfCloseSealDuress>
        <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_READ_LOCKS_ROUTE>

```

Example 2 - Failure

Input Transaction:

```

<TRANSACTION_READ_LOCKS_ROUTE>
  <!-- char string -->
  <RouteName>TestRte7</RouteName>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_LOCKS_ROUTE>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_READ_LOCKS_ROUTE), a result record (indicating failure) followed by data for each lock on the route. The output unit for each lock found on the route is LockRecordAndRouteLockRecord which consists of a result record, lock record and route lock record. In this case, the route lock record specified in the route file has no matching lock record. So, the result record indicates a failure and only the route lock information retrieved from the route file is displayed.

```

<RESPONSE_READ_LOCKS_ROUTE>
  <TRANSACTION_READ_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte7</RouteName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_NOT_OK</ErrorCode>
    <Description>None of the locks defined on the route were found and read.
    </Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_ERR_LOCK_NOT_FOUND</ErrorCode>
      <Description>Lock record with lock name VLK031 not found.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK031</LockName>
      <User1ID />
      <User2ID />
      <RouteName>TestRte7</RouteName>
      <OpenDate xsi:nil="true" />
      <CloseDate xsi:nil="true" />
      <LockSequence>1</LockSequence>
      <DispatchOrder>0</DispatchOrder>
      <ResultCode>0</ResultCode>
      <IfCloseSealDuress>0</IfCloseSealDuress>
      <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
  </LockRecordAndRouteLockRecord>
</RESPONSE_READ_LOCKS_ROUTE>

```


2.3.7 Route XML File Transactions - Delete Locks from a Route

CenTran Programming Reference Manual

This transaction deletes locks from an existing route in the database. The locks to be deleted are specified as route lock records (as defined in the schema) in the input transaction file.

Transaction information required:

- Route Name
- Array of Lock Records to be deleted from the route:
 - Lock name
 - Lock sequence
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and an array of route locks (retrieved prior to deletion) with a result record for each lock.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all locks were deleted successfully from the route). In this case the error code for the transaction would be RC_OK.

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and an array of data for each lock on the route - result record, route lock record (retrieved prior to deletion).

NOTE: The result record for the whole transaction has as its result 'Failure' if the transaction is a partial success (some locks were deleted successfully and the others failed) or if the transaction is a complete failure (none of the locks were deleted from the route). In the case of partial success, the error code for the transaction would be RC_PARTIAL_OK and in the case of complete failure, the error code for the transaction would be RC_NOT_OK.

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Locks on route being deleted are open on the route.
- Route doesn't exist.
- Not authorized due to region (region control active).
- Not authorized due to authorization role.
- Route lock does not exist.

Example

Input Transaction:

```
<TRANSACTION_DELETE_LOCKS_ROUTE>
<!-- char string -->
<RouteName>TestRte4</RouteName>
<!-- route lock record -->
<RouteLockRecord>
  <LockName></LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<!-- route lock record -->
<RouteLockRecord>
  <LockName>VLK011</LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<!-- route lock record -->
<RouteLockRecord>
  <LockName>VLK014</LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<!-- route lock record -->
<RouteLockRecord>
  <LockName>VLK015</LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<!-- char string -->
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_LOCKS_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_DELETE_LOCKS_ROUTE), a result record (indicating success) followed by result records for each lock. The locks that were found in the route lock table have their route lock records retrieved from the table (prior to deletion) and appended to the end of their result records. In this case, one lock has an invalid name, lock VLK011 was not found, lock VLK014 was open on the route (its route lock record was found and retrieved), and lock VLK015 was deleted successfully (its route lock record was found and retrieved prior to deletion). The error code for the transaction is RC_PARTIAL_OK (because one lock could be deleted successfully from the route) but the overall result is deemed a Failure.

```
<RESPONSE_DELETE_LOCKS_ROUTE>
  <TRANSACTION_DELETE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <RouteLockRecord>
      <LockName></LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
      <LockName>VLK011</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
      <LockName>VLK014</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
```

```

        <LockName>VLK014</LockName>
        <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
        <LockName>VLK015</LockName>
        <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_LOCKS_ROUTE>
<ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_PARTIAL_OK</ErrorCode>
    <Description>Not all specified route lock records could be deleted.
</Description>
</ResultRecord>
<RouteLockRecordWithResult>
    <ResultRecord>
        <Result>Failure</Result>
        <ErrorCode>RC_ERR_INVALID_LOCKNAME</ErrorCode>
        <Description>Invalid lock name. The lock name is blank.
    </Description>
    </ResultRecord>
</RouteLockRecordWithResult>
<RouteLockRecordWithResult>
    <ResultRecord>
        <Result>Failure</Result>
        <ErrorCode>RC_ERR_ROUTE_LOCK_NOT_FOUND</ErrorCode>
        <Description>Route lock record with lock name VLK011,
sequence 1 not found in the database.
    </Description>
    </ResultRecord>
</RouteLockRecordWithResult>
<RouteLockRecordWithResult>
    <ResultRecord>
        <Result>Failure</Result>
        <ErrorCode>RC_ERR_LOCK_ALREADY_OPEN</ErrorCode>
        <Description>Route lock VLK014 is open on the route.
    </Description>
    </ResultRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <User1ID>rzjill</User1ID>
    <User2ID />
    <RouteName>TestRte4</RouteName>
    <OpenDate>2009-02-17T22:11:03.789Z</OpenDate>
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</RouteLockRecordWithResult>
<RouteLockRecordWithResult>
    <ResultRecord>
        <Result>Success</Result>
        <ErrorCode>RC_OK</ErrorCode>
        <Description>Route lock record VLK015 deleted successfully.
    </Description>
    </ResultRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK015</LockName>
    <User1ID />
    <User2ID />
    <RouteName>TestRte4</RouteName>
    <OpenDate xsi:nil="true" />
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</RouteLockRecordWithResult>
</RESPONSE_DELETE_LOCKS_ROUTE>

```

2.3.8 Route XML File Transactions - Dispatch all Locks on a Route

CenTran Programming Reference Manual

This transaction dispatches all locks on an existing route in the database or from a route file.

Transaction information required:

- Route Name
- Route User ID 1
- Route User ID 2
- Flag to indicate if lock errors allowed (conditional dispatch).
- Dispatcher ID (Optional) – If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all locks on the route were dispatched successfully). In this case the error code for the transaction would be RC_OK.

PartialSuccess:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'PartialSuccess' only if the transaction is a partial success (some locks on the route were dispatched successfully, and some locks failed).

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole. No route information is displayed if the transaction failed due to reasons like lack of authorization, invalid route name or failure of any other condition that needs to be satisfied before attempting to dispatch a lock on a route. If an attempt was made to dispatch the locks, for each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. The only exception to this rule is when an invalid lock name, invalid User ID or invalid lock sequence is specified as input for a route lock record and in this case only the result record is displayed for that particular route lock record.

NOTE: The result record for the whole transaction has as its result 'Failure'.

NOTE: The output transaction may have one or more 'LockRecordAndRouteLockRecord' elements. Each element is an output unit for each lock that was either successfully dispatched or failed to be dispatched. The unit contains a result record followed by a lock record (if found in the database) and a route lock record (if found in the database).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Locks already open, or otherwise invalid.
- Locks don't exist.
- Users don't exist, or otherwise invalid.
- Route doesn't exist.
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Failure

Input Transaction:

```
<TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
  <RouteName>TestRte3</RouteName>
  <User1ID>rzjack</User1ID>
  <User2ID>rzjill</User2ID>
  <IfAllowLockErrors>0</IfAllowLockErrors>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
```

Output Transaction:

Here, the route in the database has no locks assigned to it and so no locks are dispatched.

```
<RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>
  <TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RouteName>TestRte3</RouteName>
    <User1ID>rzjack</User1ID>
    <User2ID>rzjill</User2ID>
    <IfAllowLockErrors>0</IfAllowLockErrors>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_ROUTE_NO_LOCKS_ASSIGNED</ErrorCode>
    <Description>The route has no locks assigned to it.</Description>
  </ResultRecord>
</RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
```

```

<RouteName>TestRte4</RouteName>
<User1ID>rzjill</User1ID>
<User2ID>rzjack</User2ID>
<IfAllowLockErrors>0</IfAllowLockErrors>
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>

```

Output Transaction:

NOTE: If no lock errors are allowed, no locks on the route will be dispatched even if one of them causes a group mismatch, region mismatch, does not exist, is already open or is not in active mode. In this case, one lock on the route is already open and so none of the locks are dispatched. Only the details (result record, lock record and route lock record) of the open lock VLK014 are displayed.

```

<RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>
  <TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <User1ID>rzjill</User1ID>
    <User2ID>rzjack</User2ID>
    <IfAllowLockErrors>0</IfAllowLockErrors>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_DISPATCH_ROUTE_FAILED_FILMS_LOCKS_ROUTE</ErrorCode>
    <Description>No locks on route TestRte4 have been dispatched. Incompatibility or error encountered between locks and users for route from database.</Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_ERR_DISPATCH_LOCK_SEQ_OPEN</ErrorCode>
      <Description>Lock and route sequence already has a combination dispatched, or sequence is still active from other sequences not being closed out.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK014</LockName>
      <User1ID>rzjill</User1ID>
      <User2ID />
      <RouteName />
      <OpenDate>2009-08-07T13:38:44.917Z</OpenDate>
      <CloseDate xsi:nil="true" />
      <LockSequence>1</LockSequence>
      <DispatchOrder>0</DispatchOrder>
      <ResultCode>0</ResultCode>
      <IfCloseSealDuress>0</IfCloseSealDuress>
      <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK014</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T21:17:28.343Z</StartDate>
      <LastUsedDate>2009-08-07T13:38:44.917Z</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <IfLockOpen>1</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>0</IfRoute1Issued>
      <IfRoute2Issued>0</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
      <SerialNumber>532214</SerialNumber>
      <Seal>113</Seal>
      <PreviousSeal>85</PreviousSeal>
      <RouteSeal1>113</RouteSeal1>
      <RouteSeal2>0</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>85</PreviousRouteSeal1>
      <PreviousRouteSeal2>0</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>0</OpenTries2>
      <OpenTries3>0</OpenTries3>
      <TransferReturnCode>0</TransferReturnCode>
      <IssuedComboUser1Seq1>613554</IssuedComboUser1Seq1>
      <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
      <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
      <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
      <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
      <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
      <PreviousComboUser1Seq1>863054</PreviousComboUser1Seq1>
      <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
      <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
      <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
      <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
      <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
      <AuditCount>11</AuditCount>
      <GroupName>some gro</GroupName>
      <OriginalSerialNumber>0</OriginalSerialNumber>
      <Description1>aaaaaaaaaaaaaaaa</Description1>
    </LockRecord>
  </LockRecordAndRouteLockRecord>
</RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>

```

```

<Description2>dddddddddddddd</Description2>
<Description3>dddddddddddddd</Description3>
<Description4>dddddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>0</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1 />
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-07T13:38:44.917Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjack</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-07T13:38:29.933Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-07T13:38:30.893Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>

```

Example 3 - Success

Input Transaction:

```

<TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <RouteName>TestRte4</RouteName>
  <User1ID>rzjack</User1ID>
  <User2ID>rzjill</User2ID>
  <IfAllowLockErrors>1</IfAllowLockErrors>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>

```

Output Transaction:

```

<RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>
  <TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <User1ID>rzjack</User1ID>
    <User2ID>rzjill</User2ID>
    <IfAllowLockErrors>1</IfAllowLockErrors>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>All locks on route TestRte4 have been dispatched.</Description>
  </ResultRecord>
</RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>

```

```

</ResultRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLK014 dispatched successfully.</Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <UserID>rjrb1</UserID>
    <User2ID />
    <RouteName>s_route2</RouteName>
    <OpenDate>2009-08-07T13:37:15.497Z</OpenDate>
    <CloseDate>2009-08-07T13:37:17.077Z</CloseDate>
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
<LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK014</LockName>
  <RecordType>A</RecordType>
  <StartDate>2002-11-01T21:17:28.343Z</StartDate>
  <LastUsedDate>2009-08-07T13:37:17.077Z</LastUsedDate>
  <CustomerNumber>123456</CustomerNumber>
  <LockMode>R</LockMode>
  <IfDualMode>0</IfDualMode>
  <IfLockOpen>0</IfLockOpen>
  <IfForcedClosed>0</IfForcedClosed>
  <IfRoute1Issued>0</IfRoute1Issued>
  <IfRoute2Issued>0</IfRoute2Issued>
  <IfRoute3Issued>0</IfRoute3Issued>
  <IfNoAlarm>0</IfNoAlarm>
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <IfActivationCall>0</IfActivationCall>
  <SerialNumber>532214</SerialNumber>
  <Seal>137</Seal>
  <PreviousSeal>152</PreviousSeal>
  <RouteSeal1>137</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>152</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>840446</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>362917</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <AuditCount>9</AuditCount>
  <GroupName>some gro</GroupName>
  <OriginalSerialNumber>0</OriginalSerialNumber>
  <Description1>aaaaaaaaaaaaaaaa</Description1>
  <Description2>dddddddddddddd</Description2>
  <Description3>dddddddddddddd</Description3>
  <Description4>dddddddddddddd</Description4>
  <CustomerID>ACustomer</CustomerID>
  <ATMSerialNumber>asdfasd</ATMSerialNumber>
  <UserDefined1 />
  <UserDefined2 />
  <UserDefined3 />
  <UserDefined4 />
  <Region>TestRegionD</Region>
  <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
  <IfLastRoute1Issued>1</IfLastRoute1Issued>
  <IfLastRoute2Issued>0</IfLastRoute2Issued>
  <IfLastRoute3Issued>0</IfLastRoute3Issued>
  <User1ID1>rjrb1</User1ID1>
  <User1ID2 />
  <User1ID3 />
  <User2ID1 />
  <User2ID2 />
  <User2ID3 />
  <RouteName1>s_route2</RouteName1>
  <RouteName2 />
  <RouteName3 />
  <DispatcherID1>CenTran</DispatcherID1>
  <DispatcherID2 />
  <DispatcherID3 />
  <OpenTime1>2009-08-07T13:37:15.497Z</OpenTime1>
  <OpenTime2 xsi:nil="true" />
  <OpenTime3 xsi:nil="true" />
  <CloseTime1>2009-08-07T13:37:17.077Z</CloseTime1>

```

```

    <CloseTime2 xsi:nil="true" />
    <CloseTime3 xsi:nil="true" />
    <IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
    <IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
    <IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
    <PreviousUser1ID1>rzjack</PreviousUser1ID1>
    <PreviousUser1ID2 />
    <PreviousUser1ID3 />
    <PreviousUser2ID1 />
    <PreviousUser2ID2 />
    <PreviousUser2ID3 />
    <PreviousRouteName1>s_route2</PreviousRouteName1>
    <PreviousRouteName2 />
    <PreviousRouteName3 />
    <PreviousOpenTime1>2009-08-07T13:37:08.143Z</PreviousOpenTime1>
    <PreviousOpenTime2 xsi:nil="true" />
    <PreviousOpenTime3 xsi:nil="true" />
    <PreviousCloseTime1>2009-08-07T13:37:12.777Z</PreviousCloseTime1>
    <PreviousCloseTime2 xsi:nil="true" />
    <PreviousCloseTime3 xsi:nil="true" />
    <ServiceBranch>the new service branch</ServiceBranch>
    <Address1 />
    <Address2 />
    <City />
    <State />
    <ZIP />
    <Country />
    <KeyCloseSeal>0</KeyCloseSeal>
    <LockHardwareModel />
    <BankBranchName />
    <BankOpenDelay>0</BankOpenDelay>
    <BankOpenWindow>0</BankOpenWindow>
    <LockActivationStatus />
    <LockDispatchStatus />
  </LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>

```


2.3.9 Route XML File Transactions - Dispatch Locks on a Route

CenTran Programming Reference Manual

This transaction dispatches some of the locks on an existing route in the database or from a route file. The locks to be dispatched are specified as route lock records (as defined in the schema) in the input transaction file.

Transaction information required:

- Route Name
- Route User ID 1
- Route User ID 2
- Array of Lock Records to be dispatched on the route:
 - Lock Name
 - Lock Sequence
- Dispatcher ID (Optional) – If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all locks on the route were dispatched successfully). In this case the error code for the transaction would be RC_OK.

PartialSuccess:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'PartialSuccess' only if the transaction is a partial success (some locks on the route were dispatched successfully, and some locks failed).

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole. No route information is displayed if the transaction failed due to reasons like lack of authorization, invalid route name or failure of any other condition that needs to be satisfied before attempting to dispatch a lock on a route. If an attempt was made to dispatch the locks, for each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. The only exception to this rule is when an invalid lock name, invalid User ID or invalid lock sequence is specified as input for a route lock record and in this case only the result record is displayed for that particular route lock record.

NOTE: The result record for the whole transaction has as its result 'Failure'.

NOTE: The output transaction may have one or more 'LockRecordAndRouteLockRecord' elements. Each element is an output unit for each lock that was either successfully dispatched or failed to be dispatched. The unit contains a result record followed by a lock record (if found in the database) and a route lock record (if found in the database).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Locks already open, or otherwise invalid.
- Locks don't exist.
- Users don't exist, or otherwise invalid.
- Route doesn't exist.
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Failure

Input Transaction:

```
<TRANSACTION_DISPATCH_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
  <RouteName>TestRte4</RouteName>
  <User1ID>fjrb1</User1ID>
  <User2ID>fjrb2</User2ID>
  <IfAllowLockErrors>0</IfAllowLockErrors>
  <RouteLockRecord>
    <LockName>VLK016</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <RouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DISPATCH_LOCKS_ROUTE>
```

Output Transaction:

In this case, users fjrb1 and fjrb2 are FLM users and CentranSS is a Special Supervisor. So, none of the locks are dispatched and the error code for the whole transaction is RC_ERR_FLMBOTH_NOT_SAME_MODE_AS_LOCK. Each route lock has its own error code.

```
<RESPONSE_DISPATCH_LOCKS_ROUTE>
  <TRANSACTION_DISPATCH_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <User1ID>fjrb1</User1ID>
    <User2ID>fjrb2</User2ID>
    <IfAllowLockErrors>0</IfAllowLockErrors>
    <RouteLockRecord>
```

```

        <LockName>VLK016</LockName>
        <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
        <LockName>VLK014</LockName>
        <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DISPATCH_LOCKS_ROUTE>
<ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FLMBOTH_NOT_SAME_MODE_AS_LOCK</ErrorCode>
    <Description>Failure in dispatching all the specified locks on route TestRte4. Dual
mode lock - Both users are not the same mode as the lock.</Description>
</ResultRecord>
    <LockRecordAndRouteLockRecord>
        <ResultRecord>
            <Result>Failure</Result>
            <ErrorCode>RC_ERR_FLMBOTH_NOT_SAME_MODE_AS_LOCK</ErrorCode>
            <Description>Dual mode lock - Both users are not the same mode as the lock.
</Description>
        </ResultRecord>
        <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
            <LockName>VLK016</LockName>
            <User1ID>rzjill</User1ID>
            <User2ID>rzdiffgroup</User2ID>
            <RouteName>TestRte4</RouteName>
            <OpenDate>2009-08-10T14:17:34.200Z</OpenDate>
            <CloseDate>2009-08-10T14:17:38.017Z</CloseDate>
            <LockSequence>1</LockSequence>
            <DispatchOrder>0</DispatchOrder>
            <ResultCode>0</ResultCode>
            <IfCloseSealDuress>0</IfCloseSealDuress>
            <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
        </RouteLockRecord>
        <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
            <LockName>VLK016</LockName>
            <RecordType>A</RecordType>
            <StartDate>2002-11-01T21:18:27.183Z</StartDate>
            <LastUsedDate>2009-08-10T14:17:38.017Z</LastUsedDate>
            <CustomerNumber>123456</CustomerNumber>
            <LockMode>R</LockMode>
            <IfDualMode>1</IfDualMode>
            <IfLockOpen>0</IfLockOpen>
            <IfForcedClosed>0</IfForcedClosed>
            <IfRoute1Issued>0</IfRoute1Issued>
            <IfRoute2Issued>0</IfRoute2Issued>
            <IfRoute3Issued>0</IfRoute3Issued>
            <IfNoAlarm>0</IfNoAlarm>
            <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
            <IfActivationCall>0</IfActivationCall>
            <SerialNumber>532016</SerialNumber>
            <Seal>37</Seal>
            <PreviousSeal>69</PreviousSeal>
            <RouteSeal1>37</RouteSeal1>
            <RouteSeal2>0</RouteSeal2>
            <RouteSeal3>0</RouteSeal3>
            <PreviousRouteSeal1>69</PreviousRouteSeal1>
            <PreviousRouteSeal2>0</PreviousRouteSeal2>
            <PreviousRouteSeal3>0</PreviousRouteSeal3>
            <OpenTries1>0</OpenTries1>
            <OpenTries2>0</OpenTries2>
            <OpenTries3>0</OpenTries3>
            <TransferReturnCode>0</TransferReturnCode>
            <IssuedComboUser1Seq1>631429</IssuedComboUser1Seq1>
            <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
            <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
            <IssuedComboUser2Seq1>205616</IssuedComboUser2Seq1>
            <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
            <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
            <PreviousComboUser1Seq1>750929</PreviousComboUser1Seq1>
            <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
            <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
            <PreviousComboUser2Seq1>167217</PreviousComboUser2Seq1>
            <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
            <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
            <AuditCount>21</AuditCount>
            <GroupName />
            <OriginalSerialNumber>0</OriginalSerialNumber>
            <Description1>aaaaaaaaaaaaaaaa</Description1>
            <Description2 />
            <Description3 />
            <Description4 />
            <CustomerID />
            <ATMSerialNumber />
            <UserDefined1 />
            <UserDefined2 />
            <UserDefined3 />
            <UserDefined4 />
            <Region>TestRegionD</Region>
            <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
            <IfLastRoute1Issued>1</IfLastRoute1Issued>
            <IfLastRoute2Issued>0</IfLastRoute2Issued>
            <IfLastRoute3Issued>0</IfLastRoute3Issued>
            <User1ID1>rzjill</User1ID1>

```

```

<User1ID2 />
<User1ID3 />
<User2ID1>rzdiffgroup</User2ID1>
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-10T14:17:34.200Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-08-10T14:17:38.017Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>0</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1>rzjack</PreviousUser2ID1>
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1 />
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T14:16:33.113Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T14:16:53.443Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FLM1_NOT_SAME_MODE_AS_LOCK</ErrorCode>
    <Description>First user is not the same mode as the lock.</Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <User1ID>rzjill</User1ID>
    <User2ID />
    <RouteName>TestRte4</RouteName>
    <OpenDate>2009-08-10T14:17:33.687Z</OpenDate>
    <CloseDate>2009-08-10T14:17:37.587Z</CloseDate>
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:17:28.343Z</StartDate>
    <LastUsedDate>2009-08-10T14:17:37.587Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>0</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532214</SerialNumber>
    <Seal>36</Seal>
    <PreviousSeal>113</PreviousSeal>
    <RouteSeal1>36</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>113</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>

```

```

<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>354646</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>613554</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>13</AuditCount>
<GroupName>some gro</GroupName>
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2>dddddddddddddd</Description2>
<Description3>dddddddddddddd</Description3>
<Description4>dddddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-10T14:17:33.687Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-08-10T14:17:37.587Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>0</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1 />
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T14:17:29.517Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T14:17:31.170Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_DISPATCH_LOCKS_ROUTE>

```

Example 2 - Partial Failure

Input Transaction:

```

<TRANSACTION_DISPATCH_LOCKS_ROUTE>
  <!-- char string -->
  <RouteName>TestRte4</RouteName>
  <!-- route lock record -->
  <RouteLockRecord>
    <LockName>VLK013</LockName>
    <LockSequence>1</LockSequence>
    <UserID>rjrb1</UserID>
  </RouteLockRecord>
  <!-- route lock record -->
  <RouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>1</LockSequence>
    <UserID>rzjill</UserID>
  </RouteLockRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DISPATCH_LOCKS_ROUTE>

```

Output Transaction:

In this example, lock VLK013 does not exist. Therefore an appropriate error code is displayed in the result record. Since no route lock record or lock record for VLK013 exists, only the result record is displayed. Lock VLK014 is dispatched successfully. The error code for the whole transaction is RC_PARTIAL_OK indicating partial success or partial failure, depending on whether you think of the glass as half full or half empty...

```

<RESPONSE_DISPATCH_LOCKS_ROUTE>
  <TRANSACTION_DISPATCH_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <RouteLockRecord>
      <LockName>VLK013</LockName>
      <LockSequence>1</LockSequence>
      <UserID>rjrb1</UserID>
    </RouteLockRecord>
    <RouteLockRecord>
      <LockName>VLK014</LockName>
      <LockSequence>1</LockSequence>
      <UserID>rzjill</UserID>
    </RouteLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_PARTIAL_OK</ErrorCode>
    <Description>Failure in dispatching some of the specified locks on route
    TestRte4.
    </Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_ERR_ROUTE_LOCK_NOT_FOUND</ErrorCode>
      <Description>Route lock record with route name - TestRte4,
      lock name - VLK013, sequence - 1 does not exist.
      </Description>
    </ResultRecord>
  </LockRecordAndRouteLockRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <Description>Lock VLK014 dispatched successfully.</Description>
    </ResultRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK014</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T21:17:28</StartDate>
      <LastUsedDate>2009-02-18T16:00:58</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <IfLockOpen>0</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>1</IfRoute1Issued>
      <IfRoute2Issued>0</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
      <SerialNumber>532214</SerialNumber>
      <CloseSeal>49</CloseSeal>
      <PreviousSeal>49</PreviousSeal>
      <RouteSeal1>85</RouteSeal1>
      <RouteSeal2>0</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>49</PreviousRouteSeal1>
      <PreviousRouteSeal2>0</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>0</OpenTries2>
      <OpenTries3>0</OpenTries3>
      <TransferReturnCode>0</TransferReturnCode>
      <IssuedComboUser1Seq1>456865</IssuedComboUser1Seq1>
      <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
      <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    </LockRecord>
  </LockRecordAndRouteLockRecord>

```

```

<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>280202</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>10</AuditCount>
<GroupName>some gro</GroupName>
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2>dddddddddddd</Description2>
<Description3>dddddddddddd</Description3>
<Description4>dddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-18T16:00:58.123Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-02-18T15:54:10.432Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-02-18T15:59:55.421Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK014</LockName>
  <User1ID>rzjill</User1ID>
  <User2ID />
  <RouteName>TestRte4</RouteName>
  <OpenDate>2009-02-18T16:00:58.289Z</OpenDate>
  <CloseDate xsi:nil="true" />
  <LockSequence>1</LockSequence>
  <DispatchOrder>0</DispatchOrder>
  <ResultCode>0</ResultCode>
  <IfCloseSealDuress>0</IfCloseSealDuress>
  <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_DISPATCH_LOCKS_ROUTE>

```


Example 3 - Success

Input Transaction:

```
<TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
  <!-- char string -->
  <RouteName>TestRte4</RouteName>
  <!-- char string -->
  <User1ID>rzjill</User1ID>
  <!-- char string -->
  <User2ID>rzjack</User2ID>
  <!-- bool -->
  <IfAllowLockErrors>0</IfAllowLockErrors>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
```

Output Transaction:

```
<RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>
  <TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <User1ID>rzjill</User1ID>
    <User2ID>rzjack</User2ID>
    <IfAllowLockErrors>0</IfAllowLockErrors>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>All locks on route TestRte4 have been dispatched.
  </Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <Description>Lock VLK014 dispatched successfully.
    </Description>
    </ResultRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK014</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T21:17:28</StartDate>
      <LastUsedDate>2009-02-18T00:15:32</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <IfLockOpen>0</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>1</IfRoute1Issued>
      <IfRoute2Issued>0</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
      <SerialNumber>532214</SerialNumber>
      <CloseSeal>152</CloseSeal>
      <PreviousSeal>152</PreviousSeal>
      <RouteSeal1>137</RouteSeal1>
      <RouteSeal2>0</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>152</PreviousRouteSeal1>
      <PreviousRouteSeal2>0</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>0</OpenTries2>
      <OpenTries3>0</OpenTries3>
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      <IssuedComboUser1Seq1>113460</IssuedComboUser1Seq1>
      <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
      <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
      <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
      <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
      <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
      <PreviousComboUser1Seq1>956628</PreviousComboUser1Seq1>
      <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
      <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
      <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
      <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
      <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
      <AuditCount>8</AuditCount>
      <GroupName>some gro</GroupName>
      <OriginalSerialNumber>0</OriginalSerialNumber>
      <Description1>aaaaaaaaaaaaaaaa</Description1>
      <Description2>dddddddddddddd</Description2>
      <Description3>dddddddddddddd</Description3>
      <Description4>dddddddddddddd</Description4>
      <CustomerID>ACustomer</CustomerID>
      <ATMSerialNumber>asdfasd</ATMSerialNumber>
      <UserDefined1 />
      <UserDefined2 />
      <UserDefined3 />
      <UserDefined4 />
      <Region>TestRegionD</Region>
    </LockRecord>
  </LockRecordAndRouteLockRecord>
</RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>
```



```

<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
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<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-18T00:15:32.894Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
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<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
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<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
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<PreviousRouteName2 />
<PreviousRouteName3 />
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<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-02-18T00:12:15.653Z</PreviousCloseTime1>
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<PreviousCloseTime3 xsi:nil="true" />
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<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
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<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK014</LockName>
  <User1ID>rzjill</User1ID>
  <User2ID />
  <RouteName>TestRte4</RouteName>
  <OpenDate>2009-02-18T00:15:32.222Z</OpenDate>
  <CloseDate xsi:nil="true" />
  <LockSequence>1</LockSequence>
  <DispatchOrder>0</DispatchOrder>
  <ResultCode>0</ResultCode>
  <IfCloseSealDuress>0</IfCloseSealDuress>
  <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLK016 dispatched successfully.
    </Description>
  </ResultRecord>
</LockRecordAndRouteLockRecord>
<LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK016</LockName>
  <RecordType>A</RecordType>
  <StartDate>2002-11-01T21:18:27</StartDate>
  <LastUsedDate>2009-02-18T00:15:32</LastUsedDate>
  <CustomerNumber>123456</CustomerNumber>
  <LockMode>R</LockMode>
  <IfDualMode>1</IfDualMode>
  <IfLockOpen>0</IfLockOpen>
  <IfForcedClosed>0</IfForcedClosed>
  <IfRoute1Issued>1</IfRoute1Issued>
  <IfRoute2Issued>0</IfRoute2Issued>
  <IfRoute3Issued>0</IfRoute3Issued>
  <IfNoAlarm>0</IfNoAlarm>
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <IfActivationCall>0</IfActivationCall>
  <SerialNumber>532016</SerialNumber>
  <CloseSeal>67</CloseSeal>
  <PreviousSeal>67</PreviousSeal>

```

```

<RouteSeal1>132</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>147</PreviousRouteSeal1>
<PreviousRouteSeal2>67</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
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<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>986190</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>8573</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>729333</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>219975</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>930736</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>15</AuditCount>
<GroupName />
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1>rzjack</User2ID1>
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
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<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rbob</PreviousUser1ID1>
<PreviousUser1ID2>rbob</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1>rdave</PreviousUser2ID1>
<PreviousUser2ID2>rdave</PreviousUser2ID2>
<PreviousUser2ID3 />
<PreviousRouteName1>TestRoute1</PreviousRouteName1>
<PreviousRouteName2>TestRoute1</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2005-02-22T13:50:15.875Z</PreviousOpenTime1>
<PreviousOpenTime2>2005-02-22T13:50:16.345Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2005-02-22T14:41:44.423Z</PreviousCloseTime1>
<PreviousCloseTime2>2005-02-22T14:41:45.543Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK016</LockName>
  <User1ID>rzjill</User1ID>
  <User2ID>rzjack</User2ID>
  <RouteName>TestRte4</RouteName>

```

```
<OpenDate>2009-02-18T00:15:32.265Z</OpenDate>
<CloseDate xsi:nil="true" />
<LockSequence>1</LockSequence>
<DispatchOrder>0</DispatchOrder>
<ResultCode>0</ResultCode>
<IfCloseSealDuress>0</IfCloseSealDuress>
<IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>
```

2.3.10 Route XML File Transactions - Reassign All Locks On a Route

CenTran Programming Reference Manual

This transaction reassigns all locks on an existing route in the database.

Transaction information required:

- Route Name
- Route User ID 1
- Route User ID 2
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all locks on the route were reassigned successfully). In this case the error code for the transaction would be RC_OK.

PartialSuccess:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole.

Each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. The only exception to this rule is when an invalid lock name, invalid User ID or invalid lock sequence is specified as input for a route lock record and in this case only the result record is displayed for that particular route lock record.

NOTE: The result record for the whole transaction has as its result 'PartialSuccess' if the transaction is a partial success (some locks were reassigned successfully and the others failed). In the case of partial success, the error code for the transaction would be RC_ERR_REASSIGN_ROUTE_SOME_NOT_REASSIGNED.

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole. No route information is displayed if the transaction failed due to reasons like lack of authorization or failure of any other condition that needs to be satisfied before attempting to reassign the locks on a route.

If an attempt was made to reassign the locks, for each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. The only exception to this rule is when an invalid lock name, invalid User ID or invalid lock sequence is specified as input for a route lock record and in this case only the result record is displayed for that particular route lock record.

NOTE: The result record for the whole transaction has as its result 'Failure' if the transaction is a complete failure (none of the locks were reassigned on the route). In the case of complete failure, the error code for the transaction will vary depending on the error.

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Locks not open, or otherwise invalid.
- Locks don't exist.
- Users don't exist, or otherwise invalid.
- Route doesn't exist or otherwise invalid.
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Failure

Input Transaction:

```
<TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE>
  <!-- char string -->
  <RouteName>TestRte1</RouteName>
  <!-- char string -->
  <User1ID>rzjill</User1ID>
  <!-- char string -->
  <User2ID>rzjack</User2ID>
  <!-- char string -->
  <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE>
```

Output Transaction:

In this example, none of the locks are reassigned because the region control is set and the dispatcher's region (local in scope) does not match the route's region.

```
<RESPONSE_REASSIGN_ALL_LOCKS_ROUTE>
  <TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte1</RouteName>
    <User1ID>rzjill</User1ID>
    <User2ID>rzjack</User2ID>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_ROUTE_REGION</ErrorCode>
    <Description>Dispatcher belongs to a local region. The dispatcher's
      region does not match the route's region.
    </Description>
  </ResultRecord>
</RESPONSE_REASSIGN_ALL_LOCKS_ROUTE>
```

Example 2 - Partial Failure

Input Transaction:

```
<TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE>
  <!-- char string -->
  <RouteName>TestRte4</RouteName>
  <!-- char string -->
  <User1ID>rzjack</User1ID>
  <!-- char string -->
  <User2ID>rzjill</User2ID>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE>
```

Output Transaction:

In this example, lock VLK014 was reassigned successfully but lock VLK016 wasn't because it was not open. The error code for the whole transaction is 'RC_PARTIAL_OK RC_ERR_REASSIGN_ROUTE_SOME_NOT_REASSIGNED' which indicates that the transaction partially succeeded and that some locks on the route were not reassigned.

```
<RESPONSE_REASSIGN_ALL_LOCKS_ROUTE>
  <TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <User1ID>rzjack</User1ID>
    <User2ID>rzjill</User2ID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_PARTIAL_OK
      RC_ERR_REASSIGN_ROUTE_SOME_NOT_REASSIGNED
    </ErrorCode>
    <Description>Some locks on route TestRte4 have not been reassigned.
    </Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <Description>Lock VLK014 reassigned successfully.</Description>
    </ResultRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK014</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T21:17:28</StartDate>
      <LastUsedDate>2009-02-18T16:00:58</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <IfLockOpen>0</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>1</IfRoute1Issued>
      <IfRoute2Issued>0</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
      <SerialNumber>532214</SerialNumber>
      <CloseSeal>49</CloseSeal>
      <PreviousSeal>49</PreviousSeal>
      <RouteSeal1>85</RouteSeal1>
      <RouteSeal2>0</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>49</PreviousRouteSeal1>
      <PreviousRouteSeal2>0</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>0</OpenTries2>
      <OpenTries3>0</OpenTries3>
      <TransferReturnCode>0</TransferReturnCode>
      <IssuedComboUser1Seq1>863054</IssuedComboUser1Seq1>
      <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
      <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
      <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
      <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
      <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
      <PreviousComboUser1Seq1>280202</PreviousComboUser1Seq1>
      <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
      <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
      <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
      <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
      <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
      <AuditCount>10</AuditCount>
      <GroupName>some gro</GroupName>
      <OriginalSerialNumber>0</OriginalSerialNumber>
      <Description1>aaaaaaaaaaaaaaaa</Description1>
      <Description2>dddddddddddddd</Description2>
      <Description3>dddddddddddddd</Description3>
      <Description4>dddddddddddddd</Description4>
      <CustomerID>ACustomer</CustomerID>
      <ATMSerialNumber>asdfasd</ATMSerialNumber>
      <UserDefined1 />
      <UserDefined2 />
    </LockRecord>
  </LockRecordAndRouteLockRecord>
</RESPONSE_REASSIGN_ALL_LOCKS_ROUTE>
```

```

<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjack</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-18T16:00:58.673Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-02-18T15:54:10.542Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-02-18T15:59:55.344Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK014</LockName>
  <User1ID>rzjack</User1ID>
  <User2ID />
  <RouteName>TestRte4</RouteName>
  <OpenDate>2009-02-18T16:00:58.674Z</OpenDate>
  <CloseDate xsi:nil="true" />
  <LockSequence>1</LockSequence>
  <DispatchOrder>0</DispatchOrder>
  <ResultCode>0</ResultCode>
  <IfCloseSealDuress>0</IfCloseSealDuress>
  <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_LOCK_NOT_OPEN</ErrorCode>
    <Description>Lock not open.</Description>
  </ResultRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK016</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:18:27</StartDate>
    <LastUsedDate>2009-02-18T00:34:56</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>1</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>0</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532016</SerialNumber>
  </LockRecord>
</LockRecordAndRouteLockRecord>

```

```

<CloseSeal>132</CloseSeal>
<PreviousSeal>67</PreviousSeal>
<RouteSeal1>132</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>147</PreviousRouteSeal1>
<PreviousRouteSeal2>67</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>579901</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>986190</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>8573</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>729333</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>219975</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>930736</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>16</AuditCount>
<GroupName />
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1>rzjack</User2ID1>
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-18T00:15:32.645Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-02-18T00:34:56.672Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rbob</PreviousUser1ID1>
<PreviousUser1ID2>rbob</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1>rdave</PreviousUser2ID1>
<PreviousUser2ID2>rdave</PreviousUser2ID2>
<PreviousUser2ID3 />
<PreviousRouteName1>TestRoute1</PreviousRouteName1>
<PreviousRouteName2>TestRoute1</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2005-02-22T13:50:15.274Z</PreviousOpenTime1>
<PreviousOpenTime2>2005-02-22T13:50:16.564Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2005-02-22T14:41:44.278Z</PreviousCloseTime1>
<PreviousCloseTime2>2005-02-22T14:41:45.656Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK016</LockName>
  <User1ID>rzjill</User1ID>

```



```
<User2ID>rzjack</User2ID>
<RouteName>TestRte4</RouteName>
<OpenDate>2009-02-18T00:15:32</OpenDate>
<CloseDate>2009-02-18T00:34:56</CloseDate>
<LockSequence>1</LockSequence>
<DispatchOrder>0</DispatchOrder>
<ResultCode>0</ResultCode>
<IfCloseSealDuress>0</IfCloseSealDuress>
<IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_REASSIGN_ALL_LOCKS_ROUTE>
```

2.3.11 Route XML File Transactions - Reassign Locks On a Route

CenTran Programming Reference Manual

This transaction reassigns some locks on an existing route in the database. The locks to be reassigned are specified as route lock records (as defined in the schema) in the input transaction file. This transaction will work even if the route specified in the input transaction does not exist (because it has been deleted after dispatch). The route is determined by what locks are specified in the transaction.

Transaction information required:

- Route User ID 1
- Route User ID 2
- Array of Lock Records to be reassigned on the route:
 - Lock Name
 - Lock Sequence
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all locks on the route were reassigned successfully). In this case the error code for the transaction would be RC_OK.

PartialSuccess:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole.

Each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. The only exception to this rule is when an invalid lock name, invalid User ID or invalid lock sequence is specified as input for a route lock record and in this case only the result record is displayed for that particular route lock record.

NOTE: The result record for the whole transaction has as its result 'PartialSuccess' if the transaction is a partial success (some locks were reassigned successfully and the others failed). In the case of partial success, the error code for the transaction would be RC_ERR_REASSIGN_ROUTE_SOME_NOT_REASSIGNED.

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole. No route information is displayed if the transaction failed due to reasons like lack of authorization or failure of any other condition that needs to be satisfied before attempting to reassign the locks on a route.

If an attempt was made to reassign the locks, for each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. The only exception to this rule is when an invalid lock name, invalid User ID or invalid lock sequence is specified as input for a route lock record and in this case only the result record is displayed for that particular route lock record.

NOTE: The result record for the whole transaction has as its result 'Failure' if the transaction is a complete failure (none of the locks were reassigned on the route). In the case of complete failure, the error code for the transaction will vary depending on the error.

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Locks not open, or otherwise invalid.
- Locks don't exist.
- Users don't exist, or otherwise invalid.
- Route doesn't exist or otherwise invalid.
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_REASSIGN_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <UserID>rzjill</UserID>
  <User2ID>rzjack</User2ID>
  <RouteLockRecord>
    <LockName>VLKNoLock</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <RouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <RouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_REASSIGN_LOCKS_ROUTE>
```

Output Transaction:

In this example, route TestRte6 does not exist because it has been deleted after lock VLK016 was dispatched on it. The transaction nevertheless succeeds and the details of lock VLK016 are displayed after reassignment.

```
<RESPONSE_REASSIGN_LOCKS_ROUTE>
  <TRANSACTION_REASSIGN_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte6</RouteName>
    <RouteLockRecord>
      <LockName>VLK016</LockName>
```

```

        <LockSequence>1</LockSequence>
        <User1ID>rzsamegroup</User1ID>
        <User2ID>rjrb1</User2ID>
    </RouteLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION REASSIGN_LOCKS_ROUTE>
<ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Success in reassigning all the specified locks.</Description>
</ResultRecord>
<LockRecordAndRouteLockRecord>
    <ResultRecord>
        <Result>Success</Result>
        <ErrorCode>RC_OK</ErrorCode>
        <Description>Lock VLK016 reassigned successfully.</Description>
    </ResultRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK016</LockName>
        <RecordType>A</RecordType>
        <StartDate>2002-11-01T21:18:27</StartDate>
        <LastUsedDate>2009-02-18T19:06:15</LastUsedDate>
        <CustomerNumber>123456</CustomerNumber>
        <LockMode>R</LockMode>
        <IfDualMode>1</IfDualMode>
        <IfLockOpen>0</IfLockOpen>
        <IfForcedClosed>0</IfForcedClosed>
        <IfRoute1Issued>1</IfRoute1Issued>
        <IfRoute2Issued>0</IfRoute2Issued>
        <IfRoute3Issued>0</IfRoute3Issued>
        <IfNoAlarm>0</IfNoAlarm>
        <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
        <IfActivationCall>0</IfActivationCall>
        <SerialNumber>532016</SerialNumber>
        <CloseSeal>37</CloseSeal>
        <PreviousSeal>37</PreviousSeal>
        <RouteSeal1>103</RouteSeal1>
        <RouteSeal2>0</RouteSeal2>
        <RouteSeal3>0</RouteSeal3>
        <PreviousRouteSeal1>37</PreviousRouteSeal1>
        <PreviousRouteSeal2>0</PreviousRouteSeal2>
        <PreviousRouteSeal3>0</PreviousRouteSeal3>
        <OpenTries1>0</OpenTries1>
        <OpenTries2>0</OpenTries2>
        <OpenTries3>0</OpenTries3>
        <TransferReturnCode>0</TransferReturnCode>
        <IssuedComboUser1Seq1>915194</IssuedComboUser1Seq1>
        <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
        <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
        <IssuedComboUser2Seq1>174090</IssuedComboUser2Seq1>
        <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
        <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
        <PreviousComboUser1Seq1>471623</PreviousComboUser1Seq1>
        <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
        <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
        <PreviousComboUser2Seq1>730419</PreviousComboUser2Seq1>
        <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
        <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
        <AuditCount>17</AuditCount>
        <GroupName />
        <OriginalSerialNumber>0</OriginalSerialNumber>
        <Description1>aaaaaaaaaaaaaaaa</Description1>
        <Description2 />
        <Description3 />
        <Description4 />
        <CustomerID />
        <ATMSerialNumber />
        <UserDefined1 />
        <UserDefined2 />
        <UserDefined3 />
        <UserDefined4 />
        <Region>TestRegionD</Region>
        <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
        <IfLastRoute1Issued>1</IfLastRoute1Issued>
        <IfLastRoute2Issued>0</IfLastRoute2Issued>
        <IfLastRoute3Issued>0</IfLastRoute3Issued>
        <User1ID1>rzsamegroup</User1ID1>
        <User1ID2 />
        <User1ID3 />
        <User2ID1>rjrb1</User2ID1>
        <User2ID2 />
        <User2ID3 />
        <RouteName1>TestRte6</RouteName1>
        <RouteName2 />
        <RouteName3 />
        <DispatcherID1>MHG\agoverdhan</DispatcherID1>
        <DispatcherID2 />
        <DispatcherID3 />
        <OpenTime1>2009-02-18T19:06:15.344Z</OpenTime1>
        <OpenTime2 xsi:nil="true" />
        <OpenTime3 xsi:nil="true" />
        <CloseTime1 xsi:nil="true" />
        <CloseTime2 xsi:nil="true" />
        <CloseTime3 xsi:nil="true" />
        <IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
        <IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
    </LockRecord>

```

```

<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzsamegroup</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1>rjrb1</PreviousUser2ID1>
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte6</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-02-18T18:57:13.345Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-02-18T19:05:41.543Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_REASSIGN_LOCKS_ROUTE>

```

Example 2 - Partial Success

Input Transaction:

```

<TRANSACTION_REASSIGN_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <User1ID>rzjill</User1ID>
  <User2ID>rzjack</User2ID>
  <RouteLockRecord>
    <LockName>VLKNoLock</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <RouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <RouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_REASSIGN_LOCKS_ROUTE>

```

Output Transaction:

In this example, locks VLK014 and VLK015 are reassigned successfully, but lock VLKNoLock is not found. The transaction is returned as a partial success.

```

<RESPONSE_REASSIGN_LOCKS_ROUTE>
  <TRANSACTION_REASSIGN_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <User1ID>rzjill</User1ID>
    <User2ID>rzjack</User2ID>
    <RouteLockRecord>
      <LockName>VLKNoLock</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
      <LockName>VLK014</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
      <LockName>VLK015</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_REASSIGN_LOCKS_ROUTE>
  <ResultRecord>
    <Result>PartialSuccess</Result>
    <ErrorCode>RC_ERR_REASSIGN_ROUTE_SOME_NOT_REASSIGNED</ErrorCode>
    <Description>Failure in reassigning some of the specified locks.</Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_ERR_LOCK_NOT_FOUND</ErrorCode>
      <Description>Lock not found in lock table.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLKNoLock</LockName>

```

```

<User1ID>rzjill</User1ID>
<User2ID>rzjack</User2ID>
<RouteName />
<OpenDate xsi:nil="true" />
<CloseDate xsi:nil="true" />
<LockSequence>1</LockSequence>
<DispatchOrder>0</DispatchOrder>
<ResultCode>0</ResultCode>
<IfCloseSealDuress>0</IfCloseSealDuress>
<IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLK014 reassigned successfully.</Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <User1ID />
    <User2ID>rzjack</User2ID>
    <RouteName />
    <OpenDate xsi:nil="true" />
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:17:28</StartDate>
    <LastUsedDate>2009-08-05T15:22:40</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>1</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532214</SerialNumber>
    <Seal>48</Seal>
    <PreviousSeal>48</PreviousSeal>
    <RouteSeal1>82</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>48</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>724101</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>547868</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <AuditCount>16</AuditCount>
    <GroupName>some gro</GroupName>
    <OriginalSerialNumber>0</OriginalSerialNumber>
    <Description1>aaaaaaaaaaaaaaaa</Description1>
    <Description2>dddddddddddddd</Description2>
    <Description3>dddddddddddddd</Description3>
    <Description4>dddddddddddddd</Description4>
    <CustomerID>ACustomer</CustomerID>
    <ATMSerialNumber>asdfasd</ATMSerialNumber>
    <UserDefined1 />
    <UserDefined2 />
    <UserDefined3 />
    <UserDefined4 />
    <Region>TestRegionD</Region>
    <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
    <IfLastRoute1Issued>1</IfLastRoute1Issued>
    <IfLastRoute2Issued>0</IfLastRoute2Issued>
    <IfLastRoute3Issued>0</IfLastRoute3Issued>
    <User1ID1>rzjill</User1ID1>
    <User1ID2 />
    <User1ID3 />
    <User2ID1 />
    <User2ID2 />

```

```

<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-05T15:22:40.234Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-05T15:22:30.976Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-05T15:22:39.677Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLK015 reassigned successfully.</Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK015</LockName>
    <User1ID />
    <User2ID>rzjack</User2ID>
    <RouteName />
    <OpenDate xsi:nil="true" />
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK015</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T22:17:57</StartDate>
    <LastUsedDate>2009-08-05T15:22:19</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>1</IfRoute1Issued>
    <IfRoute2Issued>1</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532015</SerialNumber>
    <Seal>100</Seal>
    <PreviousSeal>100</PreviousSeal>
    <RouteSeal1>98</RouteSeal1>
    <RouteSeal2>104</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>96</PreviousRouteSeal1>
    <PreviousRouteSeal2>100</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>

```

```

<IssuedComboUser1Seq1>508848</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>255380</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>469956</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>489400</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>6</AuditCount>
<GroupName />
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>1</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2>rjrb1</User1ID2>
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2>TestRte4</RouteName2>
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2>CentranSS</DispatcherID2>
<DispatcherID3 />
<OpenTime1>2009-08-05T15:22:16.563Z</OpenTime1>
<OpenTime2>2009-08-05T15:22:19.674Z</OpenTime2>
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2>rzjill</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2>TestRte4</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-05T15:22:05.654Z</PreviousOpenTime1>
<PreviousOpenTime2>2009-08-05T15:22:05.654Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-05T15:22:09.234Z</PreviousCloseTime1>
<PreviousCloseTime2>2009-08-05T15:22:09.234Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch />
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_REASSIGN_LOCKS_ROUTE>

```


2.3.12 Route XML File Transactions - Close Locks on a Route

CenTran Programming Reference Manual

This transaction closes the specified locks on an existing route in the database. This transaction will work even if the route specified in the input transaction does not exist because it has been deleted after dispatch.

Transaction information required:

- Array of Lock Records to be closed on the route:
 - Lock Name
 - Lock Sequence
 - Close Seal
 - Force Close Flag
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all the locks were closed successfully). In this case the error code for the transaction would be RC_OK.

PartialSuccess:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'PartialSuccess' only if the transaction is a partial success (some locks on the route were closed successfully, and some locks failed). In this case the error code for the transaction would be RC_RC_ERR_CLOSE_ROUTE_NOT_ALL_CLOSED.

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole. No route information is displayed if the transaction failed due to reasons like lack of authorization, invalid route name, or failure of any other condition that needs to be satisfied before attempting to close a lock on the route.

If an attempt was made to close the locks, for each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. There are two exceptions to this rule -

a) If an invalid lock name, invalid lock sequence is specified in the input route lock record: In this case, only the result record is displayed.

b) If one of the locks on the route is to be force closed but is not a skipped route sequence: In this case, that particular lock's details (result record, lock record and route lock record) alone are displayed.

NOTE: The result record for the whole transaction has as its result 'Failure' if the transaction is a complete failure (none of the locks were closed). The error code for the transaction will vary depending on the reason for the failure.

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Locks not open, or otherwise invalid.
- Locks don't exist.
- Close seal invalid.
- Number of close attempts exceeded.
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Failure

Input Transaction:

```
<TRANSACTION_CLOSE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <CloseRouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>2</LockSequence>
    <CloseSeal>01</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <CloseRouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>1</LockSequence>
    <CloseSeal>0</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <CloseRouteLockRecord>
    <LockName></LockName>
    <LockSequence>1</LockSequence>
    <CloseSeal>0</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_CLOSE_LOCKS_ROUTE>
```

Output Transaction:

In this example, an attempt is made to close a lock with an incorrect close seal, close a lock that is not open, and close a lock with a blank name. The output consists of the details (result record, lock record, route lock record) of each lock.

```
<RESPONSE_CLOSE_LOCKS_ROUTE>
  <TRANSACTION_CLOSE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <CloseRouteLockRecord>
      <LockName>VLK015</LockName>
      <LockSequence>2</LockSequence>
```

```

        <CloseSeal>01</CloseSeal>
        <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <CloseRouteLockRecord>
        <LockName>VLK014</LockName>
        <LockSequence>1</LockSequence>
        <CloseSeal>0</CloseSeal>
        <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <CloseRouteLockRecord>
        <LockName></LockName>
        <LockSequence>1</LockSequence>
        <CloseSeal>0</CloseSeal>
        <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_CLOSE_LOCKS_ROUTE>
<ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_CLOSE_ROUTE_NOT_ALL_CLOSED</ErrorCode>
    <Description>Failure in closing any of the specified locks. Close route: Errors
closing some locks.</Description>
</ResultRecord>
<LockRecordAndRouteLockRecord>
    <ResultRecord>
        <Result>Failure</Result>
        <ErrorCode>RC_ERR_CLOSE_LOCK_SEAL_MISMATCH</ErrorCode>
        <Description>Seal numbers do not match for lock close.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK015</LockName>
        <User1ID>rjrb1</User1ID>
        <User2ID />
        <RouteName />
        <OpenDate xsi:nil="true" />
        <CloseDate xsi:nil="true" />
        <LockSequence>2</LockSequence>
        <DispatchOrder>0</DispatchOrder>
        <ResultCode>0</ResultCode>
        <IfCloseSealDuress>0</IfCloseSealDuress>
        <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK015</LockName>
        <RecordType>A</RecordType>
        <StartDate>2002-11-01T22:17:57.757Z</StartDate>
        <LastUsedDate>2009-08-10T18:58:42.153Z</LastUsedDate>
        <CustomerNumber>123456</CustomerNumber>
        <LockMode>R</LockMode>
        <IfDualMode>0</IfDualMode>
        <IfLockOpen>0</IfLockOpen>
        <IfForcedClosed>0</IfForcedClosed>
        <IfRoute1Issued>0</IfRoute1Issued>
        <IfRoute2Issued>1</IfRoute2Issued>
        <IfRoute3Issued>0</IfRoute3Issued>
        <IfNoAlarm>0</IfNoAlarm>
        <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
        <IfActivationCall>0</IfActivationCall>
        <SerialNumber>532015</SerialNumber>
        <Seal>100</Seal>
        <PreviousSeal>100</PreviousSeal>
        <RouteSeal1>98</RouteSeal1>
        <RouteSeal2>104</RouteSeal2>
        <RouteSeal3>0</RouteSeal3>
        <PreviousRouteSeal1>96</PreviousRouteSeal1>
        <PreviousRouteSeal2>100</PreviousRouteSeal2>
        <PreviousRouteSeal3>0</PreviousRouteSeal3>
        <OpenTries1>0</OpenTries1>
        <OpenTries2>1</OpenTries2>
        <OpenTries3>0</OpenTries3>
        <TransferReturnCode>0</TransferReturnCode>
        <IssuedComboUser1Seq1>508848</IssuedComboUser1Seq1>
        <IssuedComboUser1Seq2>255380</IssuedComboUser1Seq2>
        <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
        <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
        <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
        <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
        <PreviousComboUser1Seq1>469956</PreviousComboUser1Seq1>
        <PreviousComboUser1Seq2>489400</PreviousComboUser1Seq2>
        <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
        <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
        <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
        <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
        <AuditCount>6</AuditCount>
        <GroupName />
        <OriginalSerialNumber>0</OriginalSerialNumber>
        <Description1>aaaaaaaaaaaaaaaa</Description1>
        <Description2 />
        <Description3 />
        <Description4 />
        <CustomerID />
        <ATMSerialNumber />
        <UserDefined1 />
        <UserDefined2 />
        <UserDefined3 />

```

```

<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>1</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2>rjrb1</User1ID2>
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2>TestRte4</RouteName2>
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2>CentranSS</DispatcherID2>
<DispatcherID3 />
<OpenTime1>2009-08-10T18:57:53.657Z</OpenTime1>
<OpenTime2>2009-08-10T18:57:55.657Z</OpenTime2>
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-08-10T18:58:42.153Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2>rzjill</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2>TestRte4</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:57:41.167Z</PreviousOpenTime1>
<PreviousOpenTime2>2009-08-10T18:57:41.327Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:57:45.737Z</PreviousCloseTime1>
<PreviousCloseTime2>2009-08-10T18:57:45.880Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch />
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_LOCK_NOT_OPEN</ErrorCode>
    <Description>Lock not open.</Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <User1ID>rzjill</User1ID>
    <User2ID />
    <RouteName />
    <OpenDate xsi:nil="true" />
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:17:28.343Z</StartDate>
    <LastUsedDate>2009-08-10T18:58:40.217Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>0</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532214</SerialNumber>
    <Seal>82</Seal>
  </LockRecord>

```

```

<PreviousSeal>48</PreviousSeal>
<RouteSeal1>82</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>48</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>724101</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>547868</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>17</AuditCount>
<GroupName>some gro</GroupName>
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2>dddddddddddddd</Description2>
<Description3>dddddddddddddd</Description3>
<Description4>dddddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-10T18:58:21.950Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-08-10T18:58:40.217Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:58:10.370Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:58:21.057Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_INVALID_LOCKNAME</ErrorCode>
  </ResultRecord>
</LockRecordAndRouteLockRecord>

```

```

        <Description>Invalid lock name. The lock name is blank.</Description>
    </ResultRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_CLOSE_LOCKS_ROUTE>

```

Example 2 - PartialSuccess

Input Transaction:

```

<TRANSACTION_CLOSE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <CloseRouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>1</LockSequence>
    <CloseSeal>72</CloseSeal>
    <IfForcedClosed>1</IfForcedClosed>
  </CloseRouteLockRecord>
  <CloseRouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>2</LockSequence>
    <CloseSeal>0</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_CLOSE_LOCKS_ROUTE>

```

Output Transaction:

In this example, the first lock has the correct close seal and is closed successfully. The second lock is not open, so it fails.

```

<RESPONSE_CLOSE_LOCKS_ROUTE>
  <TRANSACTION_CLOSE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <CloseRouteLockRecord>
      <LockName>VLK015</LockName>
      <LockSequence>1</LockSequence>
      <CloseSeal>72</CloseSeal>
      <IfForcedClosed>1</IfForcedClosed>
    </CloseRouteLockRecord>
    <CloseRouteLockRecord>
      <LockName>VLK014</LockName>
      <LockSequence>2</LockSequence>
      <CloseSeal>0</CloseSeal>
      <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_CLOSE_LOCKS_ROUTE>
  <ResultRecord>
    <Result>PartialSuccess</Result>
    <ErrorCode>RC_ERR_CLOSE_ROUTE_NOT_ALL_CLOSED</ErrorCode>
    <Description>Failure in closing some or all of the specified locks. Close route:
Errors closing some locks.</Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <Description>Lock VLK015 closed successfully.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK015</LockName>
      <User1ID>rzjill</User1ID>
      <User2ID />
      <RouteName />
      <OpenDate xsi:nil="true" />
      <CloseDate xsi:nil="true" />
      <LockSequence>1</LockSequence>
      <DispatchOrder>0</DispatchOrder>
      <ResultCode>0</ResultCode>
      <IfCloseSealDuress>0</IfCloseSealDuress>
      <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK015</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T22:17:57.757Z</StartDate>
      <LastUsedDate>2009-08-10T18:57:55.657Z</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <IfLockOpen>0</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>1</IfRoute1Issued>
      <IfRoute2Issued>1</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
      <SerialNumber>532015</SerialNumber>
      <Seal>100</Seal>
    </LockRecord>
  </LockRecordAndRouteLockRecord>

```

```

<PreviousSeal>100</PreviousSeal>
<RouteSeal1>98</RouteSeal1>
<RouteSeal2>104</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>96</PreviousRouteSeal1>
<PreviousRouteSeal2>100</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>508848</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>255380</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>469956</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>489400</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>6</AuditCount>
<GroupName />
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>1</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2>rjrb1</User1ID2>
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2>TestRte4</RouteName2>
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2>CentranSS</DispatcherID2>
<DispatcherID3 />
<OpenTime1>2009-08-10T18:57:53.657Z</OpenTime1>
<OpenTime2>2009-08-10T18:57:55.657Z</OpenTime2>
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2>rzjill</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2>TestRte4</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:57:41.167Z</PreviousOpenTime1>
<PreviousOpenTime2>2009-08-10T18:57:41.327Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:57:45.737Z</PreviousCloseTime1>
<PreviousCloseTime2>2009-08-10T18:57:45.880Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch />
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_LOCK_NOT_OPEN</ErrorCode>
  </ResultRecord>
</LockRecordAndRouteLockRecord>

```



```

        <Description>Lock not open.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK014</LockName>
        <User1ID />
        <User2ID />
        <RouteName />
        <OpenDate xsi:nil="true" />
        <CloseDate xsi:nil="true" />
        <LockSequence>2</LockSequence>
        <DispatchOrder>0</DispatchOrder>
        <ResultCode>0</ResultCode>
        <IfCloseSealDuress>0</IfCloseSealDuress>
        <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK014</LockName>
        <RecordType>A</RecordType>
        <StartDate>2002-11-01T21:17:28.343Z</StartDate>
        <LastUsedDate>2009-08-10T18:58:40.217Z</LastUsedDate>
        <CustomerNumber>123456</CustomerNumber>
        <LockMode>R</LockMode>
        <IfDualMode>0</IfDualMode>
        <IfLockOpen>0</IfLockOpen>
        <IfForcedClosed>0</IfForcedClosed>
        <IfRoute1Issued>0</IfRoute1Issued>
        <IfRoute2Issued>0</IfRoute2Issued>
        <IfRoute3Issued>0</IfRoute3Issued>
        <IfNoAlarm>0</IfNoAlarm>
        <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
        <IfActivationCall>0</IfActivationCall>
        <SerialNumber>532214</SerialNumber>
        <Seal>82</Seal>
        <PreviousSeal>48</PreviousSeal>
        <RouteSeal1>82</RouteSeal1>
        <RouteSeal2>0</RouteSeal2>
        <RouteSeal3>0</RouteSeal3>
        <PreviousRouteSeal1>48</PreviousRouteSeal1>
        <PreviousRouteSeal2>0</PreviousRouteSeal2>
        <PreviousRouteSeal3>0</PreviousRouteSeal3>
        <OpenTries1>0</OpenTries1>
        <OpenTries2>0</OpenTries2>
        <OpenTries3>0</OpenTries3>
        <TransferReturnCode>0</TransferReturnCode>
        <IssuedComboUser1Seq1>724101</IssuedComboUser1Seq1>
        <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
        <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
        <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
        <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
        <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
        <PreviousComboUser1Seq1>547868</PreviousComboUser1Seq1>
        <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
        <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
        <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
        <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
        <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
        <AuditCount>17</AuditCount>
        <GroupName>some gro</GroupName>
        <OriginalSerialNumber>0</OriginalSerialNumber>
        <Description1>aaaaaaaaaaaaaaaa</Description1>
        <Description2>dddddddddddd</Description2>
        <Description3>dddddddddddd</Description3>
        <Description4>dddddddddddd</Description4>
        <CustomerID>ACustomer</CustomerID>
        <ATMSerialNumber>asdfasd</ATMSerialNumber>
        <UserDefined1 />
        <UserDefined2 />
        <UserDefined3 />
        <UserDefined4 />
        <Region>TestRegionD</Region>
        <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
        <IfLastRoute1Issued>1</IfLastRoute1Issued>
        <IfLastRoute2Issued>0</IfLastRoute2Issued>
        <IfLastRoute3Issued>0</IfLastRoute3Issued>
        <User1ID1>rzjill</User1ID1>
        <User1ID2 />
        <User1ID3 />
        <User2ID1 />
        <User2ID2 />
        <User2ID3 />
        <RouteName1>TestRte4</RouteName1>
        <RouteName2 />
        <RouteName3 />
        <DispatcherID1>CentranSS</DispatcherID1>
        <DispatcherID2 />
        <DispatcherID3 />
        <OpenTime1>2009-08-10T18:58:21.950Z</OpenTime1>
        <OpenTime2 xsi:nil="true" />
        <OpenTime3 xsi:nil="true" />
        <CloseTime1>2009-08-10T18:58:40.217Z</CloseTime1>
        <CloseTime2 xsi:nil="true" />
        <CloseTime3 xsi:nil="true" />
        <IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
        <IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
        <IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>

```

```

    <PreviousUser1ID1>rzjill</PreviousUser1ID1>
    <PreviousUser1ID2 />
    <PreviousUser1ID3 />
    <PreviousUser2ID1 />
    <PreviousUser2ID2 />
    <PreviousUser2ID3 />
    <PreviousRouteName1>TestRte4</PreviousRouteName1>
    <PreviousRouteName2 />
    <PreviousRouteName3 />
    <PreviousOpenTime1>2009-08-10T18:58:10.370Z</PreviousOpenTime1>
    <PreviousOpenTime2 xsi:nil="true" />
    <PreviousOpenTime3 xsi:nil="true" />
    <PreviousCloseTime1>2009-08-10T18:58:21.057Z</PreviousCloseTime1>
    <PreviousCloseTime2 xsi:nil="true" />
    <PreviousCloseTime3 xsi:nil="true" />
    <ServiceBranch>the new service branch</ServiceBranch>
    <Address1 />
    <Address2 />
    <City />
    <State />
    <ZIP />
    <Country />
    <KeyCloseSeal>0</KeyCloseSeal>
    <LockHardwareModel />
    <BankBranchName />
    <BankOpenDelay>0</BankOpenDelay>
    <BankOpenWindow>0</BankOpenWindow>
    <LockActivationStatus />
    <LockDispatchStatus />
  </LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_CLOSE_LOCKS_ROUTE>

```

Example 3 - Success

Input Transaction:

```

<TRANSACTION_CLOSE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <CloseRouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>2</LockSequence>
    <CloseSeal>78</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <CloseRouteLockRecord>
    <LockName>VLK016</LockName>
    <LockSequence>1</LockSequence>
    <CloseSeal>25</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <CloseRouteLockRecord>
    <LockName>VLKGrpID</LockName>
    <LockSequence>1</LockSequence>
    <CloseSeal>80</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_CLOSE_LOCKS_ROUTE>

```

Output Transaction:

In this example, all of the specified locks are closed successfully.

```

<RESPONSE_CLOSE_LOCKS_ROUTE>
  <TRANSACTION_CLOSE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <CloseRouteLockRecord>
      <LockName>VLK015</LockName>
      <LockSequence>2</LockSequence>
      <CloseSeal>78</CloseSeal>
      <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <CloseRouteLockRecord>
      <LockName>VLK016</LockName>
      <LockSequence>1</LockSequence>
      <CloseSeal>25</CloseSeal>
      <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <CloseRouteLockRecord>
      <LockName>VLKGrpID</LockName>
      <LockSequence>1</LockSequence>
      <CloseSeal>80</CloseSeal>
      <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_CLOSE_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>All the specified locks have been closed successfully.</Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Success</Result>
    </ResultRecord>
  </LockRecordAndRouteLockRecord>

```

```

        <ErrorCode>RC_OK</ErrorCode>
        <Description>Lock VLK015 closed successfully.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK015</LockName>
        <User1ID>rjrb1</User1ID>
        <User2ID />
        <RouteName />
        <OpenDate xsi:nil="true" />
        <CloseDate xsi:nil="true" />
        <LockSequence>2</LockSequence>
        <DispatchOrder>0</DispatchOrder>
        <ResultCode>0</ResultCode>
        <IfCloseSealDuress>0</IfCloseSealDuress>
        <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK015</LockName>
        <RecordType>A</RecordType>
        <StartDate>2002-11-01T22:17:57.757Z</StartDate>
        <LastUsedDate>2009-08-10T18:58:42.153Z</LastUsedDate>
        <CustomerNumber>123456</CustomerNumber>
        <LockMode>R</LockMode>
        <IfDualMode>0</IfDualMode>
        <IfLockOpen>0</IfLockOpen>
        <IfForcedClosed>0</IfForcedClosed>
        <IfRoute1Issued>0</IfRoute1Issued>
        <IfRoute2Issued>1</IfRoute2Issued>
        <IfRoute3Issued>0</IfRoute3Issued>
        <IfNoAlarm>0</IfNoAlarm>
        <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
        <IfActivationCall>0</IfActivationCall>
        <SerialNumber>532015</SerialNumber>
        <Seal>100</Seal>
        <PreviousSeal>100</PreviousSeal>
        <RouteSeal1>98</RouteSeal1>
        <RouteSeal2>104</RouteSeal2>
        <RouteSeal3>0</RouteSeal3>
        <PreviousRouteSeal1>96</PreviousRouteSeal1>
        <PreviousRouteSeal2>100</PreviousRouteSeal2>
        <PreviousRouteSeal3>0</PreviousRouteSeal3>
        <OpenTries1>0</OpenTries1>
        <OpenTries2>2</OpenTries2>
        <OpenTries3>0</OpenTries3>
        <TransferReturnCode>0</TransferReturnCode>
        <IssuedComboUser1Seq1>508848</IssuedComboUser1Seq1>
        <IssuedComboUser1Seq2>255380</IssuedComboUser1Seq2>
        <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
        <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
        <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
        <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
        <PreviousComboUser1Seq1>469956</PreviousComboUser1Seq1>
        <PreviousComboUser1Seq2>489400</PreviousComboUser1Seq2>
        <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
        <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
        <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
        <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
        <AuditCount>6</AuditCount>
        <GroupName />
        <OriginalSerialNumber>0</OriginalSerialNumber>
        <Description1>aaaaaaaaaaaaaaaa</Description1>
        <Description2 />
        <Description3 />
        <Description4 />
        <CustomerID />
        <ATMSerialNumber />
        <UserDefined1 />
        <UserDefined2 />
        <UserDefined3 />
        <UserDefined4 />
        <Region>TestRegionD</Region>
        <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
        <IfLastRoute1Issued>1</IfLastRoute1Issued>
        <IfLastRoute2Issued>1</IfLastRoute2Issued>
        <IfLastRoute3Issued>0</IfLastRoute3Issued>
        <User1ID1>rzjill</User1ID1>
        <User1ID2>rjrb1</User1ID2>
        <User1ID3 />
        <User2ID1 />
        <User2ID2 />
        <User2ID3 />
        <RouteName1>TestRte4</RouteName1>
        <RouteName2>TestRte4</RouteName2>
        <RouteName3 />
        <DispatcherID1>CentranSS</DispatcherID1>
        <DispatcherID2>CentranSS</DispatcherID2>
        <DispatcherID3 />
        <OpenTime1>2009-08-10T18:57:53.657Z</OpenTime1>
        <OpenTime2>2009-08-10T18:57:55.657Z</OpenTime2>
        <OpenTime3 xsi:nil="true" />
        <CloseTime1>2009-08-10T18:58:42.153Z</CloseTime1>
        <CloseTime2 xsi:nil="true" />
        <CloseTime3 xsi:nil="true" />
        <IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
        <IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>

```

```

<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2>rzjill</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2>TestRte4</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:57:41.167Z</PreviousOpenTime1>
<PreviousOpenTime2>2009-08-10T18:57:41.327Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:57:45.737Z</PreviousCloseTime1>
<PreviousCloseTime2>2009-08-10T18:57:45.880Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch />
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLK016 closed successfully.</Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK016</LockName>
    <User1ID>rjrb1</User1ID>
    <User2ID>rzjack</User2ID>
    <RouteName />
    <OpenDate xsi:nil="true" />
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK016</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:18:27.183Z</StartDate>
    <LastUsedDate>2009-08-10T18:57:55.480Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>1</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>1</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532016</SerialNumber>
    <Seal>37</Seal>
    <PreviousSeal>37</PreviousSeal>
    <RouteSeal1>53</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>37</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>249094</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>928197</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>631429</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>205616</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <AuditCount>21</AuditCount>
    <GroupName />
    <OriginalSerialNumber>0</OriginalSerialNumber>
  </LockRecord>
</LockRecordAndRouteLockRecord>

```

```

<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rjrb1</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1>rzjack</User2ID1>
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-10T18:57:55.480Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1>rzdiffgroup</PreviousUser2ID1>
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:57:41.733Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:57:46.023Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC OK</ErrorCode>
    <Description>Lock VLKGrpID closed successfully.</Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLKGrpID</LockName>
    <User1ID>rjrb1</User1ID>
    <User2ID>rzjack</User2ID>
    <RouteName />
    <OpenDate xsi:nil="true" />
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLKGrpID</LockName>
    <RecordType>A</RecordType>
    <StartDate>2004-11-24T19:47:18.000Z</StartDate>
    <LastUsedDate>2009-08-10T18:57:55.303Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>1</IfDualMode>
    <IfLockOpen>0</IfLockOpen>

```

```
<IfForcedClosed>0</IfForcedClosed>
<IfRoute1Issued>1</IfRoute1Issued>
<IfRoute2Issued>0</IfRoute2Issued>
<IfRoute3Issued>0</IfRoute3Issued>
<IfNoAlarm>0</IfNoAlarm>
<IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
<IfActivationCall>0</IfActivationCall>
<SerialNumber>823456</SerialNumber>
<Seal>1</Seal>
<PreviousSeal>1</PreviousSeal>
<RouteSeal1>144</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>1</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>921772</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>600975</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>481118</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>897306</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>3</AuditCount>
<GroupName>aabb</GroupName>
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>123456789_1_3456789_2_3456789_3_3456789</Description1>
<Description2>123456789_1_3456789_2_3456789_3_3456789</Description2>
<Description3>123456789_1_3456789_2_3456789_3_3456789</Description3>
<Description4>123456789_1_3456789_2_3456789_3_3456789</Description4>
```

<CustomerID>323456789_1_3456789_2_3456789_3_3456789_4_3456789_5_3456789_6_34</CustomerID>

<ATMSerialNumber>123456789_1_3456789_2_3456789_3_3456789_4_3456789_5_3456789_6_34</ATMSerialNumber>

<UserDefined1>123456789_1_3456789_2_3456789_3_3456789_4_3456789_5_3456789_6_34</UserDefined1>

<UserDefined2>123456789_1_3456789_2_3456789_3_3456789_4_3456789_5_3456789_6_34</UserDefined2>

<UserDefined3>123456789_1_3456789_2_3456789_3_3456789_4_3456789_5_3456789_6_34</UserDefined3>

<UserDefined4>123456789_1_3456789_2_3456789_3_3456789_4_3456789_5_3456789_6_34</UserDefined4>

```
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rjrb1</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1>rzjack</User2ID1>
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-10T18:57:55.303Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1>rzjack</PreviousUser2ID1>
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:57:42.937Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:57:46.177Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
```

```
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_CLOSE_LOCKS_ROUTE>
```


2.3.13 Route XML File Transactions - Route Table Query

CenTran Programming Reference Manual

This transaction queries the route table for a set of route records. The Input transaction file contains a query record which in turn contains a set of route fields to create a query from. The route query does not have a 'like search' option.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the route records in the route table are retrieved.

- Route Name
- Creation Date range (Creation Date Start and Creation Date End)
- Customer ID
- Region Name
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Note: Since the route query does not have a "search like" option, all search field values (except Creation Date range fields) must completely match the values of the fields in the database. If the record for route name TestRoute needs to be searched and retrieved, the value of the route name search field has to be TestRoute and not Test or Route or any other substring of TestRoute.

Note: If the Dispatcher belongs to a local region and region control is enabled, only those routes belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region even if a different value has already been provided in the query record.

Note: For the Creation Date Range search, both the lower and upper bounds for the search have to be specified i.e. both Creation Date Start and Creation Date End have to be specified. If only Creation Date Start is specified in the query record, that search field will not have any effect on the result.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the route records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open route table.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ROUTE_QUERY>
  <RouteQueryRecord>
    <!-- char string -->
    <RouteName>TestRte1</RouteName>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <Region>TestRegionA</Region>
    <!-- date -->
    <CreationDateStart>2004-12-21T00:00:01</CreationDateStart>
    <!-- date -->
    <CreationDateEnd>2005-01-21T00:00:01</CreationDateEnd>
  </RouteQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ROUTE_QUERY>
```

Output Transaction:

```
<RESPONSE_ROUTE_QUERY>
  <TRANSACTION_ROUTE_QUERY xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RouteQueryRecord>
      <RouteName>TestRte1</RouteName>
      <CustomerID>ACustomer</CustomerID>
      <Region>TestRegionA</Region>
      <CreationDateStart>2004-12-21T00:00:01</CreationDateStart>
      <CreationDateEnd>2005-01-21T00:00:01</CreationDateEnd>
    </RouteQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ROUTE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route record/s found satisfying the search condition.
  </Description>
</ResultRecord>
  <RouteRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <RouteName>TestRte1</RouteName>
    <CreationDate>2004-12-22T15:49:18</CreationDate>
    <CustomerID>ACustomer</CustomerID>
    <Region>TestRegionA</Region>
  </RouteRecord>
</RESPONSE_ROUTE_QUERY>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_ROUTE_QUERY>
  <RouteQueryRecord>
    <!-- char string -->
    <RouteName>Test</RouteName>
  </RouteQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ROUTE_QUERY>
```

Output Transaction:

```
<RESPONSE_ROUTE_QUERY>
  <TRANSACTION_ROUTE_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteQueryRecord>
      <RouteName>Test</RouteName>
    </RouteQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ROUTE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>No route record found satisfying the search condition.
  </Description>
  </ResultRecord>
</RESPONSE_ROUTE_QUERY>
```

2.3.14 Route XML File Transactions - Route Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the route table matching the given query condition. It operates in the same manner as the Route Table Query transaction.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ROUTE_QUERY_COUNT>
  <RouteQueryRecord>
    <!-- char string -->
    <Region>TestRegionA</Region>
  </RouteQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ROUTE_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_ROUTE_QUERY_COUNT>
  <TRANSACTION_ROUTE_QUERY_COUNT xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RouteQueryRecord>
      <Region>TestRegionA</Region>
    </RouteQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ROUTE_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of route records matching the given query: 2.</Description>
  </ResultRecord>
  <QueryCount>2</QueryCount>
</RESPONSE_ROUTE_QUERY_COUNT>
```

Example 2 - Success

Input Transaction:

```
<TRANSACTION_ROUTE_QUERY_COUNT>
  <RouteQueryRecord>
    <!-- char string -->
    <Region>TestRegionA</Region>
  </RouteQueryRecord>
  <!-- char string -->
  <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_ROUTE_QUERY_COUNT>
```

Output Transaction:

In this example, SuperUserTestRegionD belongs to a local region TestRegionD and therefore replaces TestRegionA as the search field for the query. Only one route in TestRegionD is found.

```
<RESPONSE_ROUTE_QUERY_COUNT>
  <TRANSACTION_ROUTE_QUERY_COUNT xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RouteQueryRecord>
      <Region>TestRegionA</Region>
    </RouteQueryRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_ROUTE_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of route records matching the given query: 1.
  </Description>
  </ResultRecord>
  <QueryCount>1</QueryCount>
</RESPONSE_ROUTE_QUERY_COUNT>
```

2.3.15 Route XML File Transactions - Route Lock Table Query

CenTran Programming Reference Manual

This transaction queries the route lock table for a set of route lock records. The Input transaction file contains a query record which in turn contains a set of route lock fields to create a query from. The route lock query does not have a "search like" option.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the route lock records in the route lock table are retrieved.

- Lock Name
- Route Name
- Lock Sequence
- User ID (searches for this User ID in both the FLM1ID and FLM2ID route lock record fields)
- Open Time Date range (Open Date Start and Open Date End)
- Close Time Date range (Close Date Start and Close Date End)
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Note: Since the route lock query does not have a 'like search' option, all search field values (except the Date range fields) must completely match the values of the fields in the database.

Note: If the Dispatcher belongs to a local region and region control is enabled, the search goes through 2 phases. In the first phase, only those route locks satisfying the search condition are retrieved. In the second phase, the region of each retrieved route lock's route is compared against the dispatcher's region and only those that match are displayed by CenTran.

Note: For the Open Date Range search and Close Date Range search, both the lower and upper bounds of the range have to be specified. If only the lower bound (Date Start) or if only the upper bound (Date End) is specified, that search field will be ignored.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the route lock records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error - failed to open route table.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ROUTE_LOCK_QUERY>
  <RouteLockQueryRecord>
    <!-- char string -->
    <RouteName>TestRtel</RouteName>
    <!-- char string -->
    <LockName>VLK020</LockName>
    <!-- char string -->
    <LockSequence>1</LockSequence>
    <!-- char string -->
    <UserID>rzjohn</UserID>
    <!-- date -->
    <OpenDateStart>2004-12-21T00:00:01</OpenDateStart>
    <!-- date -->
    <OpenDateEnd>2004-12-23T00:00:01</OpenDateEnd>
    <!-- date -->
    <CloseDateStart>2004-12-24T00:00:01</CloseDateStart>
    <!-- date -->
    <CloseDateEnd>2004-12-26T00:00:01</CloseDateEnd>
  </RouteLockQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ROUTE_LOCK_QUERY>
```

Output Transaction:

```
<RESPONSE_ROUTE_LOCK_QUERY>
  <TRANSACTION_ROUTE_LOCK_QUERY xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RouteLockQueryRecord>
      <RouteName>TestRtel</RouteName>
      <LockName>VLK020</LockName>
      <LockSequence>1</LockSequence>
      <UserID>rzjohn</UserID>
      <OpenDateStart>2004-12-21T00:00:01</OpenDateStart>
      <OpenDateEnd>2004-12-23T00:00:01</OpenDateEnd>
      <CloseDateStart>2004-12-24T00:00:01</CloseDateStart>
      <CloseDateEnd>2004-12-26T00:00:01</CloseDateEnd>
    </RouteLockQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ROUTE_LOCK_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC OK</ErrorCode>
    <Description>Route lock record/s found satisfying the search condition.
    </Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
```

```

    <LockName>VLK020</LockName>
    <User1ID>rzjane</User1ID>
    <User2ID>rzjohn</User2ID>
    <RouteName>TestRte1</RouteName>
    <OpenDate>2004-12-22T15:49:18</OpenDate>
    <CloseDate>2004-12-25T15:49:18</CloseDate>
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
</RESPONSE_ROUTE_LOCK_QUERY>

```

Example 2 - Success

Input Transaction:

```

<TRANSACTION_ROUTE_LOCK_QUERY>
  <!-- route lock query record -->
  <RouteLockQueryRecord>
  </RouteLockQueryRecord>
  <!-- char string -->
  <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_ROUTE_LOCK_QUERY>

```

Output Transaction:

In this case there are no search fields specified in the route lock query record but the dispatcher belongs to a local region 'TestRegionD'. Therefore, all the locks on routes which belong to TestRegionD are displayed. Here, only those locks on route TestRte4 are retrieved because only TestRte4 belongs to TestRegionD.

```

<RESPONSE_ROUTE_LOCK_QUERY>
  <TRANSACTION_ROUTE_LOCK_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteLockQueryRecord></RouteLockQueryRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_ROUTE_LOCK_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route lock record/s found satisfying the search condition.
    </Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <User1ID>rzjack</User1ID>
    <User2ID />
    <RouteName>TestRte4</RouteName>
    <OpenDate>2009-02-18T16:00:58</OpenDate>
    <CloseDate>2009-02-18T23:57:38</CloseDate>
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <User1ID>rzjill</User1ID>
    <User2ID />
    <RouteName>TestRte4</RouteName>
    <OpenDate>2009-02-18T23:18:29.342Z</OpenDate>
    <CloseDate xsi:nil="true" />
    <LockSequence>2</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
</RESPONSE_ROUTE_LOCK_QUERY>

```

2.3.16 Route XML File Transactions - Route Lock Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the route lock table matching the given query condition. It operates in the same manner as the Route Lock Table Query transaction.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ROUTE_LOCK_QUERY_COUNT>
  <!-- route lock query record -->
  <RouteLockQueryRecord>
    <!-- char string -->
    <RouteName>TestRte1</RouteName>
    <!-- char string -->
    <LockName>VLK018</LockName>
  </RouteLockQueryRecord>
  <!-- char string -->
  <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_ROUTE_LOCK_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_ROUTE_LOCK_QUERY_COUNT>
  <TRANSACTION_ROUTE_LOCK_QUERY_COUNT xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RouteLockQueryRecord></RouteLockQueryRecord>
    <!-- char string -->
    <RouteName>TestRte1</RouteName>
    <!-- char string -->
    <LockName>VLK018</LockName>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_ROUTE_LOCK_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of route lock records matching the given query: 2.
    </Description>
  </ResultRecord>
  <QueryCount>2</QueryCount>
</RESPONSE_ROUTE_LOCK_QUERY_COUNT>
```

2.4.1 User XML File Transactions - Change User Name

CenTran Programming Reference Manual

This transaction is used to change a user name, based off of the original name and a given new name.

This transaction renames a user. It is the equivalent of the 'Rename User' operation from a user report in Cencon. It adds a record into the user history table for the old user name. It updates records in the lock log table if the user is a route or flm lock key, and is currently dispatched to a lock. It also updates the route lock table if the user is currently dispatched on a route.

Transaction information required:

- Old User ID
- New User ID
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Old user name invalid.
- New user name invalid or already in use.
- Not authorized due to region (dispatcher region is local and does not match user region).
- Not authorized due to authorization role.
- User is a windows logon user and cannot be renamed because the name is linked to the logon.

Example 1 - Failure

Input Transaction:

```
<TRANSACTION_CHANGE_USER_NAME>
  <OldUserID>rzjill</OldUserID>
  <NewUserID>rzjane</NewUserID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_CHANGE_USER_NAME>
```

Output Transaction:

The transaction fails because the new User ID already exists in the user database.

```
<RESPONSE_CHANGE_USER_NAME>
  <TRANSACTION_CHANGE_USER_NAME xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <OldUserID>rzjill</OldUserID>
    <NewUserID>rzjane</NewUserID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CHANGE_USER_NAME>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FAILED_RENAME_USER_ID_
NEW_USER_ID_ALREADY_EXISTS</ErrorCode>
    <Description>Error in renaming user rzjill. Failed to rename user.
The new user ID already exists. A user can not be renamed to an already
existing user ID.
    </Description>
  </ResultRecord>
</RESPONSE_CHANGE_USER_NAME>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_CHANGE_USER_NAME>
  <!-- char string -->
  <OldUserID>MHG\Arch</OldUserID>
  <!-- char string -->
  <NewUserID>Arch</NewUserID>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_CHANGE_USER_NAME>
```

Output Transaction:

The transaction fails because the User ID to be renamed is a Windows Logon user.

```
<RESPONSE_CHANGE_USER_NAME>
  <TRANSACTION_CHANGE_USER_NAME xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <OldUserID>MHG\Arch</OldUserID>
    <NewUserID>Arch</NewUserID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CHANGE_USER_NAME>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FAILED_RENAME_USER_ID_IS
_WINDOWS_LOGON_USER</ErrorCode>
    <Description>Error in renaming user MHG\Arch.
Failed to rename user. The user is a Windows authentication logon user,
```



```
        and the user name must be the same as the Windows logon name to
        allow the user to be identified.
    </Description>
</ResultRecord>
</RESPONSE_CHANGE_USER_NAME>
```

Example 3 - Success

Input Transaction:

```
<TRANSACTION_CHANGE_USER_NAME>
  <OldUserID>rzjill</OldUserID>
  <NewUserID>rzgail</NewUserID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_CHANGE_USER_NAME>
```

Output Transaction:

```
<RESPONSE_CHANGE_USER_NAME>
  <TRANSACTION_CHANGE_USER_NAME xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <OldUserID>rzjill</OldUserID>
    <NewUserID>rzgail</NewUserID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CHANGE_USER_NAME>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>User rzjill has been successfully changed to rzgail.
  </Description>
  </ResultRecord>
</RESPONSE_CHANGE_USER_NAME>
```

2.4.2 User XML File Transactions - Read User Data

CenTran Programming Reference Manual

This transaction reads data for a user. The password field of a user record, if encrypted, is not displayed and is instead left blank.

Transaction information required:

- User ID (uniquely identifies a user record) or Can Type and Key ID (both these fields together uniquely identify a user record)
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the retrieved user record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- User doesn't exist.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

UserRecord:

UserRecordType	This record type contains user data from the Cencon system.												
UserID	Unique user ID identifying the user in the Cencon database.												
SecurityLevel	This is an integer identifying the generic user type. This can be one of the following values: <table border="1"> <tr><td>1</td><td>FLM mode lock key</td></tr> <tr><td>2</td><td>Route mode lock key</td></tr> <tr><td>4</td><td>Bank mode lock key</td></tr> <tr><td>8</td><td>Dispatcher software logon key</td></tr> <tr><td>64</td><td>Supervisor software logon key</td></tr> <tr><td>128</td><td>Special Supervisor software logon key</td></tr> </table>	1	FLM mode lock key	2	Route mode lock key	4	Bank mode lock key	8	Dispatcher software logon key	64	Supervisor software logon key	128	Special Supervisor software logon key
1	FLM mode lock key												
2	Route mode lock key												
4	Bank mode lock key												
8	Dispatcher software logon key												
64	Supervisor software logon key												
128	Special Supervisor software logon key												
KeyID	This is the 6 byte key ID for the key in the key reader. The combination of the key ID and the can type is a unique value.												
CanType	This is the can type of the key. This is a single byte value indicating the hardware model of the key. See below for possible values.												
NumberCombosIssued	This is the current number of combinations that have been issued to the user. This value will vary depending on if the user is currently dispatched to a lock or not. This value will be incremented as the user is dispatched to locks, and decremented as users are closed out from lock dispatches.												
CreationDate	This is data and time that the user was created in the Cencon database.												
DeletionDate	This is data and time that the user was deleted in the Cencon database. This value will be cleared (empty) for currently active users. This value will always be set for user records in the user history table.												
Nickname	This is a nickname that can be assigned to the user. It is used as desired for business operations involving the user.												
NicknameExpirationDate	This is a nickname expiration date that can be assigned to the user. It is used as desired for business operations involving the user.												
GroupName	This is the group name that the user is assigned to. The group name is kept for backwards compatibility only. It is no longer used by the Cencon / CenTran software.												
NumberTimeWindows	This is the number of time access windows to be defined for the user, both in the Cencon database and in the use key. You can define 0 to 3 time windows. If 0, then no time windows are defined to restrict the user access times and the user can open the lock at any time. If one or more time access windows are defined, then the user access to locks is restricted to those time access windows.												
Window1Start / Window2Start / Window3Start	These are the start times during the day that a time access window is starting. These are defined as intervals of 6 minutes starting from midnight. This value can be 0 to 240 (6 minute intervals for 1440 minutes in a day). For example, 8 A.M. would be the value 80. These values are cleared (empty) if the time window is not defined.												
Window1Duration / Window2Duration / Window3Duration	These are the duration that a time access window lasts. These are defined as intervals of 6 minutes starting from midnight. This value can be 0 to 240 (6 minute intervals for 1440 minutes in a day). For example, 5 hours would be the value 50. These values are cleared (empty) if the time window is not defined.												
IfWindow1Sun / IfWindow1Mon / IfWindow1Tue / IfWindow1Wed / IfWindow1Thu / IfWindow1Fri / IfWindow1Sat	These are the flags for what days of the week that the first time window would be applied. These can be true or false. These values are cleared (empty) if the time window is not defined.												
IfWindow2Sun / IfWindow2Mon / IfWindow2Tue / IfWindow2Wed / IfWindow2Thu / IfWindow2Fri / IfWindow2Sat	These are the flags for what days of the week that the first time window would be applied. These can be true or false. These values are cleared (empty) if the time window is not defined.												
IfWindow3Sun / IfWindow3Mon / IfWindow3Tue / IfWindow3Wed / IfWindow3Thu / IfWindow3Fri / IfWindow3Sat	These are the flags for what days of the week that the first time window would be applied. These can be true or false. These values are cleared (empty) if the time window is not defined.												

<i>Region</i>	This is the Cencon database region that the user is assigned to. If region control is set to be active in your Cencon database, then the user is restricted to being dispatched to locks with the same assigned region as the user. If region control is set to be active in your Cencon database, then you are required to assign a region to the user. If you attempt to assign a region that does not exist, then you will receive an error when trying to add the user.
<i>ServiceBranch</i>	This a descriptive field about the user for use with your business procedures as needed.
<i>FirstName</i>	This a descriptive field about the user for use with your business procedures as needed.
<i>MiddleName</i>	This a descriptive field about the user for use with your business procedures as needed.
<i>LastName</i>	This a descriptive field about the user for use with your business procedures as needed.
<i>LastUsedDate</i>	This is data and time that the user was last used. This is updated with dispatches and closes for FLM and Route mode. It is also updated when a Bank mode user is assigned to a lock. It is updated when a software logon user type logs onto the Cencon software. It is also updated when a software logon user type is used with a transaction with CenTran.
<i>AuthorizationRole</i>	This field contains the named role that the user is assigned to. This will be a predefined role for lock user keys, such as FLM, Route or Bank. This can be a predefined role for software logon keys, such as Dispatcher, Supervisor, or Special Supervisor. For software logon keys, it can also be a customer defined role with custom permissions defined.
<i>BankUserID</i>	This is the Bank Branch User ID that the user is assigned to. This applies to Bank mode users only. The combination of Bank Branch Name and Bank User ID must be unique. If another Bank mode user already has the same values you are trying to use, you will receive an error when adding the user key. The Bank Branch User ID is written to the user key. See the following notes on lock key models and lock model capabilities for details on the permitted ranges for Bank Branch User ID.
<i>TotalNumberCombosIssued</i>	This is a count of the total number of combinations that have been issued to a lock user key. This value is incremented each time that a lock user is dispatched. It is not decremented when the dispatch for the user is closed. It is decremented if the lock dispatch is reassigned to another user.
<i>MaximumNumberAllowedCombos</i>	This value is used to restrict the total number of dispatches that can be issued to a lock user key. If this value is not set, then there is no restriction on the number of times the lock user key can be dispatched. If this value is set, and the total number of combinations issued exceeds this value, then the lock user key is not permitted to be dispatched again.
<i>EnabledStartDate / EnabledEndDate</i>	This is the enabled start date and enabled end date for a user key. These values can be empty if there is no date restriction on the user key. These date / time values are used to set up user keys that are only permitted to be used for a limited amount of time. These values are valid for restricting dispatching of FLM and Route lock user keys. These values are also used for restricting how long a software logon user key is permitted to logon onto the Cencon software or be used in a transaction with CenTran. The <i>EnabledStartDate</i> value restricts when the key is permitted to start being used. The <i>EnabledEndDate</i> value restricts when the key is no longer permitted to be used.
<i>BankBranchName</i>	This is the assigned bank branch name for a bank mode user key. This value will be set for bank mode lock users. It will be cleared for any user type that is not a bank mode user key. Bank mode users can only be assigned to locks with the same bank branch name.
<i>CustomerID</i>	This is a descriptive field about the user for the assigned Customer ID. If this value is being set, it must be a Customer ID that exists in your Cencon database.
<i>UserCombo</i>	This is the initial user combination defined for Bank mode users. This value is used when adding Bank mode users to a Cencon Gen 2 lock. Setting an initial user combination is not supported by Cencon Gen 1 locks.
<i>IfMustChangeCombo</i>	This is a flag indicating that the initial combination defined for Bank mode users must be changed by the user before being permitted to open the lock. This value is used when adding Bank mode users to a Cencon Gen 2 lock. The flag indicating that the user must change their combination is not supported by Cencon Gen 1 locks. This value will be set to true if the user must change their combination prior to opening the lock. This value will be false if the user can use their initial combination to open the lock.
<i>IfLegacyImport</i>	This is a flag indicating that the user is an import from a legacy version of the CenBank software. The CenBank software handled security data differently than the Cencon / CenTran software. This flag indicates that the user key can not be reinitialized without losing the original security data on the key.

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C

202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Note

Cencon bank mode limitations differ between Cencon Gen 1 locks and Cencon Gen 2 locks. The following table summarizes the differences between the lock versions:

Feature	Cencon Gen 1	Cencon Gen 2
Number of Users On Lock	1-32	1-100
Bank Mode User ID Limit Per Bank Branch	1-79	0-2147483647
Bank Branch ID Limit	1-9999	1-2147483647
Initial Combinations	Bank mode user keys always have an initial default combination of 50-25-50 .	Bank mode user keys have an initial combination as set by the Cencon software.
Combination Valid To Open Lock	Must change bank mode user key initial combination before opening the lock.	Requirement to change the bank mode user key initial combination before opening the lock is set per bank mode user by the Cencon software.
Feature	DS1427 Bank Key	DS1963S Bank Key
Cencon Gen 1	Supported	Not Supported
Cencon Gen 2	Supported	Supported
Security	Legacy Cencon Security	Enhanced Security and Hardware Authentication
Bank Mode User ID Limit Per Bank Branch	1-79	0-2147483647
Bank Branch ID Limit	1-9999	1-2147483647

Example 1 - Success reading user by key serial number (Can Type / Key ID).

Input Transaction:

```
<TRANSACTION_READ_USER>
  <CanType>04</CanType>
  <KeyID>00000023F0D3</KeyID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_USER>
```

Output Transaction:

```
<RESPONSE_READ_USER>
  <TRANSACTION_READ_USER>
    <CanType>04</CanType>
    <KeyID>00000023F0D3</KeyID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_USER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>The user was successfully read from the database.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>rzjohn</UserID>
    <SecurityLevel>2</SecurityLevel>
    <KeyID>00000023F0D3</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>0</NumberCombosIssued>
    <CreationDate>2004-12-22T15:49:18Z</CreationDate>
    <DeletionDate/>
    <Nickname>Big John from Ohio</Nickname>
    <NicknameExpirationDate>1969-12-31T23:40:42Z</NicknameExpirationDate>
    <GroupName/>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Window1Start>0</Window1Start>
    <Window1Duration>0</Window1Duration>
    <IfWindow1Sun>false</IfWindow1Sun>
    <IfWindow1Mon>false</IfWindow1Mon>
    <IfWindow1Tue>false</IfWindow1Tue>
    <IfWindow1Wed>false</IfWindow1Wed>
    <IfWindow1Thu>false</IfWindow1Thu>
```

```

<IfWindow1Fri>false</IfWindow1Fri>
<IfWindow1Sat>false</IfWindow1Sat>
<Window2Start>0</Window2Start>
<Window2Duration>0</Window2Duration>
<IfWindow2Sun>false</IfWindow2Sun>
<IfWindow2Mon>false</IfWindow2Mon>
<IfWindow2Tue>false</IfWindow2Tue>
<IfWindow2Wed>false</IfWindow2Wed>
<IfWindow2Thu>false</IfWindow2Thu>
<IfWindow2Fri>false</IfWindow2Fri>
<IfWindow2Sat>false</IfWindow2Sat>
<Window3Start>0</Window3Start>
<Window3Duration>0</Window3Duration>
<IfWindow3Sun>false</IfWindow3Sun>
<IfWindow3Mon>false</IfWindow3Mon>
<IfWindow3Tue>false</IfWindow3Tue>
<IfWindow3Wed>false</IfWindow3Wed>
<IfWindow3Thu>false</IfWindow3Thu>
<IfWindow3Fri>false</IfWindow3Fri>
<IfWindow3Sat>false</IfWindow3Sat>
<Region/>
<ServiceBranch/>
<FirstName/>
<MiddleName/>
<LastName/>
<LastUsedDate>2009-04-03T21:42:27Z</LastUsedDate>
<AuthorizationRole>Route</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>1</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate/>
<EnabledEndDate/>
<BankBranchName/>
<CustomerID/>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>true</IfMustChangeCombo>
<IfLegacyImport>false</IfLegacyImport>
</UserRecord>
</RESPONSE_READ_USER>

```

Example 2 - Success reading user by User ID.

Input Transaction:

```

<TRANSACTION_READ_USER>
  <UserID>F12</UserID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_USER>

```

Output Transaction:

```

<RESPONSE_READ_USER>
  <TRANSACTION_READ_USER>
    <UserID>F12</UserID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_USER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>The user was successfully read from the database.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>F12</UserID>
    <SecurityLevel>2</SecurityLevel>
    <KeyID>0000006D5632</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>10</NumberCombosIssued>
    <CreationDate/>
    <DeletionDate/>
    <Nickname>Dave</Nickname>
    <NicknameExpirationDate/>
    <GroupName/>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Window1Start>0</Window1Start>
    <Window1Duration>0</Window1Duration>
    <IfWindow1Sun>false</IfWindow1Sun>
    <IfWindow1Mon>false</IfWindow1Mon>
    <IfWindow1Tue>false</IfWindow1Tue>
    <IfWindow1Wed>false</IfWindow1Wed>
    <IfWindow1Thu>false</IfWindow1Thu>
    <IfWindow1Fri>false</IfWindow1Fri>
    <IfWindow1Sat>false</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>false</IfWindow2Sun>
    <IfWindow2Mon>false</IfWindow2Mon>
    <IfWindow2Tue>false</IfWindow2Tue>
    <IfWindow2Wed>false</IfWindow2Wed>
    <IfWindow2Thu>false</IfWindow2Thu>
    <IfWindow2Fri>false</IfWindow2Fri>
    <IfWindow2Sat>false</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>false</IfWindow3Sun>

```

```

<IfWindow3Mon>false</IfWindow3Mon>
<IfWindow3Tue>false</IfWindow3Tue>
<IfWindow3Wed>false</IfWindow3Wed>
<IfWindow3Thu>false</IfWindow3Thu>
<IfWindow3Fri>false</IfWindow3Fri>
<IfWindow3Sat>false</IfWindow3Sat>
<Region>KENTUCKY</Region>
<ServiceBranch>North Bank Branch 22</ServiceBranch>
<FirstName>David</FirstName>
<MiddleName>K</MiddleName>
<LastName>Rockefeller</LastName>
<LastUsedDate/>
<AuthorizationRole>Route</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>0</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate>2009-04-12T08:00:00Z</EnabledStartDate>
<EnabledEndDate>2013-01-01T08:00:00Z</EnabledEndDate>
<BankBranchName/>
<CustomerID>ACustomer</CustomerID>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>false</IfMustChangeCombo>
<IfLegacyImport>false</IfLegacyImport>
</UserRecord>
</RESPONSE_READ_USER>

```

Example 3 - Failure

Input Transaction:

```

<TRANSACTION_READ_USER>
  <UserID>rzjoey</UserID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_USER>

```

Output Transaction:

In this example, user rzjoey does not exist in the database.

```

<RESPONSE_READ_USER>
  <TRANSACTION_READ_USER>
    <UserID>rzjoey</UserID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_USER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_USER_NOT_FOUND</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>User ID not found in database: rzjoey</Description>
  </ResultRecord>
</RESPONSE_READ_USER>

```

2.4.3 User XML File Transactions - Update User Data

CenTran Programming Reference Manual

This transaction is used to update the database information for a user based on the user name or the user key serial number (Can Type / Key ID).

This transaction updates data for a user. The user fields to be updated have to be specified in the input transaction. Those user fields that are not specified in the input transaction are not changed from their current values. Region for a special supervisor will not be updated because a special supervisor should not be assigned to any region.

Transaction information required:

- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.
- User ID (uniquely identifies a user record) or Can Type and Key ID (both these fields together uniquely identifies a user record)
- Nickname (Optional) - The new value for this field
- Nickname Expiration Date (Optional) - The new value for this field
- Region (Optional) - The new value for this field
- Service Branch (Optional) - The new value for this field
- First Name (Optional) - The new value for this field
- Middle Name (Optional) - The new value for this field
- Last Name (Optional) - The new value for this field
- Customer ID (Optional) - The new value for this field
- Maximum Number Allowed Combos (Optional) - The new value for this field
- Enabled Start Date (Optional) - The new value for this field
- Enabled End Date (Optional) - The new value for this field

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the entire updated user record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- User doesn't exist.
- Invalid Customer ID (Customer ID not found in database).
- Invalid Region (Region not found in database)
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Failure

Input Transaction:

```
<TRANSACTION_UPDATE_USER>
  <UpdateUserRecord>
    <Region>TestReg</Region>
    <Nickname>jill</Nickname>
    <UserID>rzjill</UserID>
  </UpdateUserRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_USER>
```

Output Transaction:

The transaction fails because the new region does not exist in the region table of the database.

```
<RESPONSE_UPDATE_USER>
  <TRANSACTION_UPDATE_USER>
    <UpdateUserRecord>
      <Region>TestReg</Region>
      <Nickname>jill</Nickname>
      <UserID>rzjill</UserID>
    </UpdateUserRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_USER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_CHANGE_REGION_DOESNT_EXIST</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to update user region. The specified region does not exist:
TestReg</Description>
  </ResultRecord>
</RESPONSE_UPDATE_USER>
```

Example 2 - Success updating user by User ID

Input Transaction:

```
<TRANSACTION_UPDATE_USER>
  <UpdateUserRecord>
    <EnabledEndDate>2013-01-01T08:00:00</EnabledEndDate>
    <EnabledStartDate>2009-04-12T08:00:00</EnabledStartDate>
    <CustomerID>ACustomer</CustomerID>
    <LastName>Rockefeller</LastName>
    <MiddleName>K</MiddleName>
    <FirstName>David</FirstName>
```



```

    <ServiceBranch>North Bank Branch 22</ServiceBranch>
    <Region>KENTUCKY</Region>
    <NicknameExpirationDate>2012-08-22T04:00:00</NicknameExpirationDate>
    <Nickname>Dave</Nickname>
    <UserID>F12</UserID>
  </UpdateUserRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_USER>

```

Output Transaction:

The transaction succeeds and the specified user fields are updated with new values.

```

<RESPONSE_UPDATE_USER>
  <TRANSACTION_UPDATE_USER>
    <UpdateUserRecord>
      <EnabledEndDate>2013-01-01T08:00:00</EnabledEndDate>
      <EnabledStartDate>2009-04-12T08:00:00</EnabledStartDate>
      <CustomerID>ACustomer</CustomerID>
      <LastName>Rockefeller</LastName>
      <MiddleName>K</MiddleName>
      <FirstName>David</FirstName>
      <ServiceBranch>North Bank Branch 22</ServiceBranch>
      <Region>KENTUCKY</Region>
      <NicknameExpirationDate>2012-08-22T04:00:00</NicknameExpirationDate>
      <Nickname>Dave</Nickname>
      <UserID>F12</UserID>
    </UpdateUserRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_USER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>The user update succeeded.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>F12</UserID>
    <SecurityLevel>2</SecurityLevel>
    <KeyID>0000006D5632</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>10</NumberCombosIssued>
    <CreationDate/>
    <DeletionDate/>
    <Nickname>Dave</Nickname>
    <NicknameExpirationDate>2012-08-22T04:00:00Z</NicknameExpirationDate>
    <GroupName/>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Window1Start>0</Window1Start>
    <Window1Duration>0</Window1Duration>
    <IfWindow1Sun>false</IfWindow1Sun>
    <IfWindow1Mon>false</IfWindow1Mon>
    <IfWindow1Tue>false</IfWindow1Tue>
    <IfWindow1Wed>false</IfWindow1Wed>
    <IfWindow1Thu>false</IfWindow1Thu>
    <IfWindow1Fri>false</IfWindow1Fri>
    <IfWindow1Sat>false</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>false</IfWindow2Sun>
    <IfWindow2Mon>false</IfWindow2Mon>
    <IfWindow2Tue>false</IfWindow2Tue>
    <IfWindow2Wed>false</IfWindow2Wed>
    <IfWindow2Thu>false</IfWindow2Thu>
    <IfWindow2Fri>false</IfWindow2Fri>
    <IfWindow2Sat>false</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>false</IfWindow3Sun>
    <IfWindow3Mon>false</IfWindow3Mon>
    <IfWindow3Tue>false</IfWindow3Tue>
    <IfWindow3Wed>false</IfWindow3Wed>
    <IfWindow3Thu>false</IfWindow3Thu>
    <IfWindow3Fri>false</IfWindow3Fri>
    <IfWindow3Sat>false</IfWindow3Sat>
    <Region>KENTUCKY</Region>
    <ServiceBranch>North Bank Branch 22</ServiceBranch>
    <FirstName>David</FirstName>
    <MiddleName>K</MiddleName>
    <LastName>Rockefeller</LastName>
    <LastUsedDate/>
    <AuthorizationRole>Route</AuthorizationRole>
    <BankUserID>0</BankUserID>
    <TotalNumberCombosIssued>0</TotalNumberCombosIssued>
    <MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
    <EnabledStartDate>2009-04-12T08:00:00Z</EnabledStartDate>
    <EnabledEndDate>2013-01-01T08:00:00Z</EnabledEndDate>
    <BankBranchName/>
    <CustomerID>ACustomer</CustomerID>
    <UserCombo>0</UserCombo>
    <IfMustChangeCombo>false</IfMustChangeCombo>
    <IfLegacyImport>false</IfLegacyImport>
  </UserRecord>
</RESPONSE_UPDATE_USER>

```


2.4.4 User XML File Transactions - User Change Bank Mode Default Combination

CenTran Programming Reference Manual

This transaction is used to update the database with a new bank mode default combination for a bank mode user based on the user name.

The new bank mode default combination is set only in the user record in the database. This new value for the user's bank mode default combination is used the next time the user is assigned to a Cencon Gen 2 lock. Existing locks that the user is already assigned to will have the old value, unless the user is deleted from and then assigned back to a lock.

Transaction information required:

- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.
- User ID (uniquely identifies a user record)
- User Combination - The new bank mode default combination for the user
- If Must Change Combo - Flag indicating if the user must change from the default combination to a new combination before being permitted to open the lock.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the entire updated user record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- User doesn't exist.
- Invalid Combination
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Failure

Input Transaction:

```
<TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
  <UserID>Not A Real User Name</UserID>
  <UserCombo>123456</UserCombo>
  <IfMustChangeCombo>>false</IfMustChangeCombo>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
```

Output Transaction:

The transaction fails because the new region does not exist in the region table of the database.

```
<RESPONSE_USER_CHANGE_BANK_MODE_COMBINATION>
  <TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
    <UserID>Not A Real User Name</UserID>
    <UserCombo>123456</UserCombo>
    <IfMustChangeCombo>>false</IfMustChangeCombo>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_USER_NOT_FOUND</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>User ID not found in database: Not A Real User Name</Description>
  </ResultRecord>
</RESPONSE_USER_CHANGE_BANK_MODE_COMBINATION>
```

Example 2 - Success updating user by User ID

Input Transaction:

```
<TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
  <UserID>Bank SHA Key 10004</UserID>
  <UserCombo>123456</UserCombo>
  <IfMustChangeCombo>>false</IfMustChangeCombo>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
```

Output Transaction:

The transaction succeeds and the specified user fields are updated with new values.

```
<RESPONSE_USER_CHANGE_BANK_MODE_COMBINATION>
  <TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
    <UserID>Bank SHA Key 10004</UserID>
    <UserCombo>123456</UserCombo>
    <IfMustChangeCombo>>false</IfMustChangeCombo>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>The user change bank mode default combination succeeded.</Description>
  </ResultRecord>
```

```

<UserRecord>
  <UserID>Bank SHA Key 10004</UserID>
  <SecurityLevel>4</SecurityLevel>
  <KeyID>0000006AA8FF</KeyID>
  <CanType>18</CanType>
  <NumberCombosIssued>0</NumberCombosIssued>
  <CreationDate>2013-03-18T13:13:17.677Z</CreationDate>
  <DeletionDate/>
  <Nickname/>
  <NicknameExpirationDate/>
  <GroupName/>
  <NumberTimeWindows>0</NumberTimeWindows>
  <Window1Start>0</Window1Start>
  <Window1Duration>0</Window1Duration>
  <IfWindow1Sun>>false</IfWindow1Sun>
  <IfWindow1Mon>>false</IfWindow1Mon>
  <IfWindow1Tue>>false</IfWindow1Tue>
  <IfWindow1Wed>>false</IfWindow1Wed>
  <IfWindow1Thu>>false</IfWindow1Thu>
  <IfWindow1Fri>>false</IfWindow1Fri>
  <IfWindow1Sat>>false</IfWindow1Sat>
  <Window2Start>0</Window2Start>
  <Window2Duration>0</Window2Duration>
  <IfWindow2Sun>>false</IfWindow2Sun>
  <IfWindow2Mon>>false</IfWindow2Mon>
  <IfWindow2Tue>>false</IfWindow2Tue>
  <IfWindow2Wed>>false</IfWindow2Wed>
  <IfWindow2Thu>>false</IfWindow2Thu>
  <IfWindow2Fri>>false</IfWindow2Fri>
  <IfWindow2Sat>>false</IfWindow2Sat>
  <Window3Start>0</Window3Start>
  <Window3Duration>0</Window3Duration>
  <IfWindow3Sun>>false</IfWindow3Sun>
  <IfWindow3Mon>>false</IfWindow3Mon>
  <IfWindow3Tue>>false</IfWindow3Tue>
  <IfWindow3Wed>>false</IfWindow3Wed>
  <IfWindow3Thu>>false</IfWindow3Thu>
  <IfWindow3Fri>>false</IfWindow3Fri>
  <IfWindow3Sat>>false</IfWindow3Sat>
  <Region>KENTUCKY</Region>
  <ServiceBranch>Service Branch 2</ServiceBranch>
  <FirstName/>
  <MiddleName/>
  <LastName/>
  <LastUsedDate>2013-03-18T13:13:17.677Z</LastUsedDate>
  <AuthorizationRole>Bank</AuthorizationRole>
  <BankUserID>10004</BankUserID>
  <TotalNumberCombosIssued>0</TotalNumberCombosIssued>
  <MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
  <EnabledStartDate/>
  <EnabledEndDate/>
  <BankBranchName>North Bank Branch</BankBranchName>
  <CustomerID>North Bank</CustomerID>
  <UserCombo>123456</UserCombo>
  <IfMustChangeCombo>>false</IfMustChangeCombo>
  <IfLegacyImport>>false</IfLegacyImport>
</UserRecord>
</RESPONSE_USER_CHANGE_BANK_MODE_COMBINATION>

```

2.4.5 User XML File Transactions - Add User Key

CenTran Programming Reference Manual

This transaction adds a user key to the Cencon database and initializes a user key using the specified keybox.

Note

CenTran is supporting only lock user key types for add key, edit key, and delete transactions. CenTran will not add, edit, or delete Cencon / CenTran logon key types. This is for security reasons. CenTran may be operating under a single token method of authorization (I.E. user name/password, etc). The Cencon / CenTran logon key types represent a dual token method of authorization.

Transaction information required:

- **IP Address** - Specifies the keybox to connect to from CenTran to read the key from.
- **Communications ID** - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- **Communications Method** - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

User information required:

- **UserID** - This is the unique User ID identifying the user in the Cencon database.
- **AuthorizationRole** - This is the type of user being added. This can be one of the following values:
 - **FLM** - Indicates the user is a lock user key for use with the Cencon lock FLM mode.
 - **Route** - Indicates the user is a lock user key for use with the Cencon lock Route mode.
 - **Bank** - Indicates the user is a lock user key for use with the Cencon lock Bank mode.
- **NumberTimeWindows** - This is the number of time access windows to be defined for the user, both in the Cencon database and in the use key. You can define 0 to 3 time windows. If 0, then no time windows are defined to restrict the user access times and the user can open the lock at any time. If one or more time access windows are defined, then the user access to locks is restricted to those time access windows.
- **Window1Start / Window2Start / Window3Start** - These are the start times during the day that a time access window is starting. These are defined as intervals of 6 minutes starting from midnight. This value can be 0 to 240 (6 minute intervals for 1440 minutes in a day). For example, 8 A.M. would be the value 80. These are optional if the time window is not being defined.
- **Window1Duration / Window2Duration / Window3Duration** - These are the duration that a time access window lasts. These are defined as intervals of 6 minutes starting from midnight. This value can be 0 to 240 (6 minute intervals for 1440 minutes in a day). For example, 5 hours would be the value 50. These are optional if the time window is not being defined.
- **IfWindow1Sun / IfWindow1Mon / IfWindow1Tue / IfWindow1Wed / IfWindow1Thu / IfWindow1Fri / IfWindow1Sat** - These are the flags for what days of the week that the first time window would be applied. These can be true or false. These are optional if the time window is not being defined.
- **IfWindow2Sun / IfWindow2Mon / IfWindow2Tue / IfWindow2Wed / IfWindow2Thu / IfWindow2Fri / IfWindow2Sat** - These are the flags for what days of the week that the second time window would be applied. These can be true or false. These are optional if the time window is not being defined.
- **IfWindow3Sun / IfWindow3Mon / IfWindow3Tue / IfWindow3Wed / IfWindow3Thu / IfWindow3Fri / IfWindow3Sat** - These are the flags for what days of the week that the third time window would be applied. These can be true or false. These are optional if the time window is not being defined.
- **Region** - This is the Cencon database region that the user is assigned to. If region control is set to be active in your Cencon database, then the user is restricted to being dispatched to locks with the same assigned region as the user. If region control is set to be active in your Cencon database, then you are required to assign a region to the user. If you attempt to assign a region that does not exist, then you will receive an error when trying to add the user.
- **ServiceBranch** - This is a descriptive field about the user for use with your business procedures as needed. It is optional.
- **CustomerID** - This is a descriptive field about the user for the assigned Customer ID. If this value is being set, it must be a Customer ID that exists in your Cencon database. It is optional.
- **FirstName** - This is a descriptive field about the user for use with your business procedures as needed. It is optional.
- **MiddleName** - This is a descriptive field about the user for use with your business procedures as needed. It is optional.
- **LastName** - This is a descriptive field about the user for use with your business procedures as needed. It is optional.
- **Nickname** - This is a descriptive field about the user for use with your business procedures as needed. It is optional.
- **NicknameExpirationDate** - This is an expiration date for the nickname for use with your business procedures as needed. It is optional.
- **MaximumNumberAllowedCombos** - This is the maximum number of allowed combinations that the user can be dispatched to simultaneously. This applies to FLM and Route lock users. Depending on your settings with the Cencon database, you can configure how many times an FLM or Route lock user can be dispatched. This sets a further restriction on the number of simultaneous dispatches on this specific user. This field does not apply to Bank mode lock users. A value of 0 sets that no restriction is being applied.
- **EnabledStartDate** - This is the starting date that the user can be assigned to locks or dispatched. It is optional.
- **EnabledEndDate** - This is the ending date that the user can be assigned to locks or dispatched. It is optional. This value is written to the user key as well as to the Cencon database.
- **BankBranchName** - This is the bank branch name that the user is assigned to. This applies to Bank mode users only. If you are adding a Bank mode user, then you must specify a Bank Branch Name. The Bank Branch Name must be one that exists in the Cencon database, or you will receive an error when adding the user key.
- **BankUserID** - This is the Bank Branch User ID that the user is assigned to. This applies to Bank mode users only. The combination of Bank Branch Name and Bank User ID must be unique. If another Bank mode user already has the same values you are trying to use, you will receive an error when adding the user key. The Bank Branch User ID is written to the user key. See the following notes on lock key models and lock capabilities for details on the permitted ranges for Bank Branch User ID.
- **UserCombo** - This is the default user combination that a Bank mode lock user key is assigned with. This applies to Bank mode users only. This is written to Bank mode lock user keys that are using DS1963 key model Can Types. It is not written to older DS1427 key model Can Types. This value is valid when used with a DS1963S key on a Cencon Gen 2 lock.
- **IfMustChangeCombo** - This flag specifies if a Bank mode lock user key must change their default combination at the lock before being allowed to open the lock. This is written to Bank mode lock user keys that are using DS1963 key model Can Types. It is not written to older DS1427 key model Can Types. This value is valid when used with a DS1963S key on a Cencon Gen 2 lock.

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Note

Cencon bank mode limitations differ between Cencon Gen 1 locks and Cencon Gen 2 locks. The following table summarizes the differences between the lock versions:

Feature	Cencon Gen 1	Cencon Gen 2
Number of Users On Lock	1-32	1-100
Bank Mode User ID Limit Per Bank Branch	1-79	0-2147483647
Bank Branch ID Limit	1-9999	1-2147483647
Initial Combinations	Bank mode user keys always have an initial default combination of 50-25-50 .	Bank mode user keys have an initial combination as set by the Cencon software.
Combination Valid To Open Lock	Must change bank mode user key initial combination before opening the lock.	Requirement to change the bank mode user key initial combination before opening the lock is set per bank mode user by the Cencon software.
Feature	DS1427 Bank Key	DS1963S Bank Key
Cencon Gen 1	Supported	Not Supported
Cencon Gen 2	Supported	Supported
Security	Legacy Cencon Security	Enhanced Security and Hardware Authentication
Bank Mode User ID Limit Per Bank Branch	1-79	0-2147483647
Bank Branch ID Limit	1-9999	1-2147483647

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the created user record..

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- User ID already exists in the Cencon database.
- User Key is already in use in the Cencon database.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Example 1 - Successful add of FLM user.

Input Transaction:

```
<TRANSACTION ADD_USER_KEY>
  <AddUserKeyRecord>
    <UserID>F13</UserID>
    <AuthorizationRole>FLM</AuthorizationRole>
    <NumberTimeWindows>2</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>40</Window1Duration>
    <IfWindow1Mon>true</IfWindow1Mon>
    <IfWindow1Tue>true</IfWindow1Tue>
```

```

<IfWindow1Wed>true</IfWindow1Wed>
<IfWindow1Thu>true</IfWindow1Thu>
<IfWindow1Fri>true</IfWindow1Fri>
<Window2Start>120</Window2Start>
<Window2Duration>40</Window2Duration>
<IfWindow2Sun>true</IfWindow2Sun>
<IfWindow2Sat>true</IfWindow2Sat>
<Region>KENTUCKY</Region>
<ServiceBranch>North Bank Branch 22</ServiceBranch>
<CustomerID>North Bank</CustomerID>
<FirstName>Janet</FirstName>
<MiddleName>Juliet</MiddleName>
<LastName>Justice</LastName>
<Nickname>JJJ</Nickname>
<NicknameExpirationDate>2013-04-12T00:00:00</NicknameExpirationDate>
<MaximumNumberAllowedCombos>10</MaximumNumberAllowedCombos>
<EnabledStartDate>2012-04-12T00:00:00</EnabledStartDate>
<EnabledEndDate>2014-02-01T00:00:00</EnabledEndDate>
</AddUserKeyRecord>
<IPAddress>10.108.6.102:53003</IPAddress>
<CommunicationsID/>
<CommunicationsMethod>Tcp</CommunicationsMethod>
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_USER_KEY>

```

Output Transaction:

```

<RESPONSE_ADD_USER_KEY>
  <TRANSACTION_ADD_USER_KEY>
    <AddUserKeyRecord>
      <UserID>F13</UserID>
      <AuthorizationRole>FLM</AuthorizationRole>
      <NumberTimeWindows>2</NumberTimeWindows>
      <Window1Start>80</Window1Start>
      <Window1Duration>40</Window1Duration>
      <IfWindow1Mon>true</IfWindow1Mon>
      <IfWindow1Tue>true</IfWindow1Tue>
      <IfWindow1Wed>true</IfWindow1Wed>
      <IfWindow1Thu>true</IfWindow1Thu>
      <IfWindow1Fri>true</IfWindow1Fri>
      <Window2Start>120</Window2Start>
      <Window2Duration>40</Window2Duration>
      <IfWindow2Sun>true</IfWindow2Sun>
      <IfWindow2Sat>true</IfWindow2Sat>
      <Region>KENTUCKY</Region>
      <ServiceBranch>North Bank Branch 22</ServiceBranch>
      <CustomerID>North Bank</CustomerID>
      <FirstName>Janet</FirstName>
      <MiddleName>Juliet</MiddleName>
      <LastName>Justice</LastName>
      <Nickname>JJJ</Nickname>
      <NicknameExpirationDate>2013-04-12T00:00:00</NicknameExpirationDate>
      <MaximumNumberAllowedCombos>10</MaximumNumberAllowedCombos>
      <EnabledStartDate>2012-04-12T00:00:00</EnabledStartDate>
      <EnabledEndDate>2014-02-01T00:00:00</EnabledEndDate>
    </AddUserKeyRecord>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_USER_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>The add user key succeeded.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>F13</UserID>
    <SecurityLevel>1</SecurityLevel>
    <KeyID>00000045F7B2</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>0</NumberCombosIssued>
    <CreationDate>2012-08-28T15:48:53.882Z</CreationDate>
    <DeletionDate/>
    <Nickname>JJJ</Nickname>
    <NicknameExpirationDate>2013-04-12T00:00:00Z</NicknameExpirationDate>
    <GroupName/>
    <NumberTimeWindows>2</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>40</Window1Duration>
    <IfWindow1Sun>false</IfWindow1Sun>
    <IfWindow1Mon>true</IfWindow1Mon>
    <IfWindow1Tue>true</IfWindow1Tue>
    <IfWindow1Wed>true</IfWindow1Wed>
    <IfWindow1Thu>true</IfWindow1Thu>
    <IfWindow1Fri>true</IfWindow1Fri>
    <IfWindow1Sat>false</IfWindow1Sat>
    <Window2Start>120</Window2Start>
    <Window2Duration>40</Window2Duration>
    <IfWindow2Sun>true</IfWindow2Sun>
    <IfWindow2Mon>false</IfWindow2Mon>
    <IfWindow2Tue>false</IfWindow2Tue>
    <IfWindow2Wed>false</IfWindow2Wed>
    <IfWindow2Thu>false</IfWindow2Thu>
    <IfWindow2Fri>false</IfWindow2Fri>
  </UserRecord>

```



```

<IfWindow2Sat>true</IfWindow2Sat>
<Window3Start>0</Window3Start>
<Window3Duration>0</Window3Duration>
<IfWindow3Sun>false</IfWindow3Sun>
<IfWindow3Mon>false</IfWindow3Mon>
<IfWindow3Tue>false</IfWindow3Tue>
<IfWindow3Wed>false</IfWindow3Wed>
<IfWindow3Thu>false</IfWindow3Thu>
<IfWindow3Fri>false</IfWindow3Fri>
<IfWindow3Sat>false</IfWindow3Sat>
<Region>KENTUCKY</Region>
<ServiceBranch>North Bank Branch 22</ServiceBranch>
<FirstName>Janet</FirstName>
<MiddleName>Juliet</MiddleName>
<LastName>Justice</LastName>
<LastUsedDate>2012-08-28T15:48:53.882Z</LastUsedDate>
<AuthorizationRole>FLM</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>0</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>10</MaximumNumberAllowedCombos>
<EnabledStartDate>2012-04-12T00:00:00Z</EnabledStartDate>
<EnabledEndDate>2014-02-01T00:00:00Z</EnabledEndDate>
<BankBranchName/>
<CustomerID>North Bank</CustomerID>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>true</IfMustChangeCombo>
<IfLegacyImport>false</IfLegacyImport>
</UserRecord>
</RESPONSE_ADD_USER_KEY>

```

Example 2 - Failure adding user key due to key in Cencon Keybox key reader slot already exists in Cencon database.

Input Transaction:

```

<TRANSACTION_ADD_USER_KEY>
  <AddUserKeyRecord>
    <UserID>ANewRouteUser</UserID>
    <AuthorizationRole>Route</AuthorizationRole>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Region>KENTUCKY</Region>
  </AddUserKeyRecord>
  <IPAddress>10.108.6.102:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_USER_KEY>

```

Output Transaction:

In this example, user rzjoey does not exist in the database.

```

<RESPONSE_ADD_USER_KEY>
  <TRANSACTION_ADD_USER_KEY>
    <AddUserKeyRecord>
      <UserID>ANewRouteUser</UserID>
      <AuthorizationRole>Route</AuthorizationRole>
      <NumberTimeWindows>0</NumberTimeWindows>
      <Region>KENTUCKY</Region>
    </AddUserKeyRecord>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_USER_KEY>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FAILED_ADD_USER_KEY_ALREADY_EXISTS</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to add user key. The user key in the key reader already exists in
the database.</Description>
  </ResultRecord>
</RESPONSE_ADD_USER_KEY>

```

2.4.6 User XML File Transactions - Edit User Key

CenTran Programming Reference Manual

This transaction updates time access data for a user key in the specified Cencon Keybox reader slot.

Note

CenTran is supporting only lock user key types for add key, edit key, and delete transactions. CenTran will not add, edit, or delete Cencon / CenTran logon key types. This is for security reasons. CenTran may be operating under a single token method of authorization (I.E. user name/password, etc). The Cencon / CenTran logon key types represent a dual token method of authorization.

Transaction information required:

- **IP Address** - Specifies the keybox to connect to from CenTran to update the key to.
- **Communications ID** - Specifies an alternate identification of a keybox to connect to from CenTran to update the key to. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- **Communications Method** - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

User information required:

- **UserID** - This is the unique User ID identifying the user in the Cencon database.
- **NumberTimeWindows** - This is the number of time access windows to be defined for the user, both in the Cencon database and in the use key. You can define 0 to 3 time windows. If 0, then no time windows are defined to restrict the user access times and the user can open the lock at any time. If one or more time access windows are defined, then the user access to locks is restricted to those time access windows.
- **Window1Start / Window2Start / Window3Start** - These are the start times during the day that a time access window is starting. These are defined as intervals of 6 minutes starting from midnight. This value can be 0 to 240 (6 minute intervals for 1440 minutes in a day). For example, 8 A.M. would be the value 80. These are optional if the time window is not being defined.
- **Window1Duration / Window2Duration / Window3Duration** - These are the duration that a time access window lasts. These are defined as intervals of 6 minutes starting from midnight. This value can be 0 to 240 (6 minute intervals for 1440 minutes in a day). For example, 5 hours would be the value 50. These are optional if the time window is not being defined.
- **IfWindow1Sun / IfWindow1Mon / IfWindow1Tue / IfWindow1Wed / IfWindow1Thu / IfWindow1Fri / IfWindow1Sat** - These are the flags for what days of the week that the first time window would be applied. These can be true or false. These are optional if the time window is not being defined.
- **IfWindow2Sun / IfWindow2Mon / IfWindow2Tue / IfWindow2Wed / IfWindow2Thu / IfWindow2Fri / IfWindow2Sat** - These are the flags for what days of the week that the first time window would be applied. These can be true or false. These are optional if the time window is not being defined.
- **IfWindow3Sun / IfWindow3Mon / IfWindow3Tue / IfWindow3Wed / IfWindow3Thu / IfWindow3Fri / IfWindow3Sat** - These are the flags for what days of the week that the first time window would be applied. These can be true or false. These are optional if the time window is not being defined.
- **EnabledStartDate** - This is the starting date that the user can be assigned to locks or dispatched. It is optional.
- **EnabledEndDate** - This is the ending date that the user can be assigned to locks or dispatched. It is optional. This value is written to the user key as well as to the Cencon database.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the updated user record..

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- User ID does not exist in the Cencon database.
- User Key in the Cencon keybox does not match the specified User ID.
- User Key is not present in the Cencon keybox key reader slot.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Example 1 - Success

Input Transaction:

```
<TRANSACTION_UPDATE_USER_KEY>
  <UpdateUserKeyRecord>
    <UserID>F13</UserID>
    <NumberTimeWindows>1</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>120</Window1Duration>
    <IfWindow1Mon>true</IfWindow1Mon>
    <IfWindow1Tue>true</IfWindow1Tue>
    <IfWindow1Wed>true</IfWindow1Wed>
    <IfWindow1Thu>true</IfWindow1Thu>
    <IfWindow1Fri>true</IfWindow1Fri>
    <EnabledStartDate>2010-04-12T00:00:00</EnabledStartDate>
    <EnabledEndDate>2013-04-12T00:00:00</EnabledEndDate>
  </UpdateUserKeyRecord>
  <IPAddress>10.108.6.102:53003</IPAddress>
  <CommunicationsID>/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_USER_KEY>
```

Output Transaction:

```

<RESPONSE_UPDATE_USER_KEY>
  <TRANSACTION_UPDATE_USER_KEY>
    <UpdateUserKeyRecord>
      <UserID>F13</UserID>
      <NumberTimeWindows>1</NumberTimeWindows>
      <Window1Start>80</Window1Start>
      <Window1Duration>120</Window1Duration>
      <IfWindow1Mon>true</IfWindow1Mon>
      <IfWindow1Tue>true</IfWindow1Tue>
      <IfWindow1Wed>true</IfWindow1Wed>
      <IfWindow1Thu>true</IfWindow1Thu>
      <IfWindow1Fri>true</IfWindow1Fri>
      <EnabledStartDate>2010-04-12T00:00:00</EnabledStartDate>
      <EnabledEndDate>2013-04-12T00:00:00</EnabledEndDate>
    </UpdateUserKeyRecord>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID>/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_USER_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>The user key update succeeded.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>F13</UserID>
    <SecurityLevel>1</SecurityLevel>
    <KeyID>00000045F7B2</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>0</NumberCombosIssued>
    <CreationDate>2012-08-28T15:48:53.883Z</CreationDate>
    <DeletionDate>/>
    <Nickname>JJJ</Nickname>
    <NicknameExpirationDate>2013-04-12T00:00:00Z</NicknameExpirationDate>
    <GroupName>/>
    <NumberTimeWindows>1</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>120</Window1Duration>
    <IfWindow1Sun>>false</IfWindow1Sun>
    <IfWindow1Mon>true</IfWindow1Mon>
    <IfWindow1Tue>true</IfWindow1Tue>
    <IfWindow1Wed>true</IfWindow1Wed>
    <IfWindow1Thu>true</IfWindow1Thu>
    <IfWindow1Fri>true</IfWindow1Fri>
    <IfWindow1Sat>>false</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>>false</IfWindow2Sun>
    <IfWindow2Mon>>false</IfWindow2Mon>
    <IfWindow2Tue>>false</IfWindow2Tue>
    <IfWindow2Wed>>false</IfWindow2Wed>
    <IfWindow2Thu>>false</IfWindow2Thu>
    <IfWindow2Fri>>false</IfWindow2Fri>
    <IfWindow2Sat>>false</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>>false</IfWindow3Sun>
    <IfWindow3Mon>>false</IfWindow3Mon>
    <IfWindow3Tue>>false</IfWindow3Tue>
    <IfWindow3Wed>>false</IfWindow3Wed>
    <IfWindow3Thu>>false</IfWindow3Thu>
    <IfWindow3Fri>>false</IfWindow3Fri>
    <IfWindow3Sat>>false</IfWindow3Sat>
    <Region>KENTUCKY</Region>
    <ServiceBranch>North Bank Branch 22</ServiceBranch>
    <FirstName>Janet</FirstName>
    <MiddleName>Juliet</MiddleName>
    <LastName>Justice</LastName>
    <LastUsedDate>2012-08-28T15:48:53.883Z</LastUsedDate>
    <AuthorizationRole>FLM</AuthorizationRole>
    <BankUserID>0</BankUserID>
    <TotalNumberCombosIssued>0</TotalNumberCombosIssued>
    <MaximumNumberAllowedCombos>10</MaximumNumberAllowedCombos>
    <EnabledStartDate>2010-04-12T00:00:00Z</EnabledStartDate>
    <EnabledEndDate>2013-04-12T00:00:00Z</EnabledEndDate>
    <BankBranchName>/>
    <CustomerID>North Bank</CustomerID>
    <UserCombo>0</UserCombo>
    <IfMustChangeCombo>true</IfMustChangeCombo>
    <IfLegacyImport>>false</IfLegacyImport>
  </UserRecord>
</RESPONSE_UPDATE_USER_KEY>

```

Example 2 - Failure

Input Transaction:

```

<TRANSACTION_UPDATE_USER_KEY>
  <UpdateUserKeyRecord>
    <UserID>BU01</UserID>
    <NumberTimeWindows>0</NumberTimeWindows>
  </UpdateUserKeyRecord>

```

```
<IPAddress>10.108.6.102:53003</IPAddress>
<CommunicationsID/>
<CommunicationsMethod>Tcp</CommunicationsMethod>
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_USER_KEY>
```

Output Transaction:

In this example, user BU01 does not match the key in the key reader.

```
<RESPONSE_UPDATE_USER_KEY>
  <TRANSACTION_UPDATE_USER_KEY>
    <UpdateUserKeyRecord>
      <UserID>BU01</UserID>
      <NumberTimeWindows>0</NumberTimeWindows>
    </UpdateUserKeyRecord>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_USER_KEY>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_UPDATE_USER_KEY_WRONG_KEY_IN_READER</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Key in key reader does not match the user: BU01</Description>
  </ResultRecord>
</RESPONSE_UPDATE_USER_KEY>
```

2.4.7 User XML File Transactions - Read Key Information

CenTran Programming Reference Manual

This transaction is used to read the key in the specified Cencon keybox and return key information such as key serial number.

Transaction information required:

- IP Address and Port - Specifies the keybox to connect to from CenTran to read the key from.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description), and an information record about the key.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- No key is present in the keybox reader slot.
- Not authorized due to authorization role.

Key Data:

KeyInformation

This record contains generic data read from the key.

CanType

This is the can type of the key. This is a single byte value indicating the hardware model of the key. See below for possible values.

KeyID

This is the 6 byte key ID for the key in the key reader. The combination of the key ID and the can type is a unique value.

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example 1 - Success

Input Transaction:

```
<TRANSACTION_READ_KEY>
  <IPAddress>10.108.6.108:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_KEY>
```

Output Transaction:

```
<RESPONSE_READ_KEY>
  <TRANSACTION_READ_KEY>
    <IPAddress>10.108.6.108:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_KEY>
  <ResultRecord>
```

```

    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>The key read information succeeded.</Description>
  </ResultRecord>
  <KeyInformation>
    <KeyID>0000003D6C33</KeyID>
    <CanType>18</CanType>
  </KeyInformation>
</RESPONSE_READ_KEY>

```

Example 2 - Failure: No key in reader

Input Transaction:

```

<TRANSACTION_READ_KEY>
  <IPAddress>10.108.6.108:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_KEY>

```

Output Transaction:

In this example, there is no key in the keybox reader slot.

```

<RESPONSE_READ_KEY>
  <TRANSACTION_READ_KEY>
    <IPAddress>10.108.6.108:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_KEY>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_PCIO_COMMS_TM_KEY_NOT_PRESENT</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to locate key in key reader: There is no key in the indicated key
reader slot.</Description>
  </ResultRecord>
</RESPONSE_READ_KEY>

```

2.4.8 User XML File Transactions - Read User Key

CenTran Programming Reference Manual

This transaction is used to read the key in the specified Cencon keybox and return the matching user data from the Cencon database.

Transaction information required:

- IP Address and Port - Specifies the keybox to connect to from CenTran to read the key from.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description), the retrieved user record, and an array of user key audits read from the user key.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- No user is assigned to the key.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

User Key Audit Data:

- Event Type - This is the text description of the type of event.
- Lock Mode - This is an identifier for the lock mode involved in the event. This will be F, R, B, or empty.
- Serial Number - This is the serial number for the lock involved in the event.
- Lock Name - This is the lock name matching the lock serial number, as looked up from the Cencon database.
- Event Date - This is the date / time of the event in UTC based time.
- Lock Open Time - This is the date / time of the lock open event in UTC based time. This will be empty of not applicable to the event.
- Lock Close Time - This is the date / time of the lock close event in UTC based time. This will be empty of not applicable to the event.
- Lock Close Seal Count - This is the close seal count for the lock mode being closed. This will be empty of not applicable to the event.
- Lock Close Seal - This is the close seal for the lock mode being closed. This will be empty of not applicable to the event.
- Is Duplicate Close Seal - This flag indicates that the close seal is from a #4 operation at the lock to get the last close seal. This is used when the lock close seal was not retrieved by the person to last open the lock.
- Is Key Audit Record CRC Invalid - This flag indicates that the CRC (Cyclic Redundancy Check) value was not correct. This means the audit data could be corrupted or the audit trail on the key has been tampered with.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_READ_USER_KEY>
  <IPAddress>10.108.6.102:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_USER_KEY>
```

Output Transaction:

```
<RESPONSE_READ_USER_KEY>
  <TRANSACTION_READ_USER_KEY>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_USER_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>The user key read succeeded.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>F3</UserID>
    <SecurityLevel>1</SecurityLevel>
    <KeyID>00000046107A</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>0</NumberCombosIssued>
    <CreationDate>2007-09-19T12:55:50Z</CreationDate>
    <DeletionDate/>
    <Nickname/>
    <NicknameExpirationDate/>
    <GroupName/>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Window1Start>0</Window1Start>
    <Window1Duration>0</Window1Duration>
    <IfWindow1Sun>false</IfWindow1Sun>
    <IfWindow1Mon>false</IfWindow1Mon>
```



```

<IfWindow1Tue>false</IfWindow1Tue>
<IfWindow1Wed>false</IfWindow1Wed>
<IfWindow1Thu>false</IfWindow1Thu>
<IfWindow1Fri>false</IfWindow1Fri>
<IfWindow1Sat>false</IfWindow1Sat>
<Window2Start>0</Window2Start>
<Window2Duration>0</Window2Duration>
<IfWindow2Sun>false</IfWindow2Sun>
<IfWindow2Mon>false</IfWindow2Mon>
<IfWindow2Tue>false</IfWindow2Tue>
<IfWindow2Wed>false</IfWindow2Wed>
<IfWindow2Thu>false</IfWindow2Thu>
<IfWindow2Fri>false</IfWindow2Fri>
<IfWindow2Sat>false</IfWindow2Sat>
<Window3Start>0</Window3Start>
<Window3Duration>0</Window3Duration>
<IfWindow3Sun>false</IfWindow3Sun>
<IfWindow3Mon>false</IfWindow3Mon>
<IfWindow3Tue>false</IfWindow3Tue>
<IfWindow3Wed>false</IfWindow3Wed>
<IfWindow3Thu>false</IfWindow3Thu>
<IfWindow3Fri>false</IfWindow3Fri>
<IfWindow3Sat>false</IfWindow3Sat>
<Region>KENTUCKY</Region>
<ServiceBranch/>
<FirstName/>
<MiddleName/>
<LastName/>
<LastUsedDate>2012-10-17T19:42:06.457Z</LastUsedDate>
<AuthorizationRole>FLM</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>13271</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate/>
<EnabledEndDate/>
<BankBranchName/>
<CustomerID/>
<UserCombo>1246576928</UserCombo>
<IfMustChangeCombo>false</IfMustChangeCombo>
<IfLegacyImport>false</IfLegacyImport>
</UserRecord>
<UserKeyAuditRecord>
  <EventType>Open Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>
  <LockName>Gen2Lock 1000107</LockName>
  <EventDate>2012-10-17T19:41:15Z</EventDate>
  <LockOpenTime>2012-10-17T19:41:15Z</LockOpenTime>
  <LockCloseTime/>
  <LockCloseSealCount>3</LockCloseSealCount>
  <LockCloseSeal/>
  <IsDuplicateCloseSeal>false</IsDuplicateCloseSeal>
  <IsKeyAuditRecordCRCInvalid>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
<UserKeyAuditRecord>
  <EventType>Open/Close Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>
  <LockName>Gen2Lock 1000107</LockName>
  <EventDate>2012-10-17T19:36:38Z</EventDate>
  <LockOpenTime>2012-10-17T19:36:38Z</LockOpenTime>
  <LockCloseTime>2012-10-17T19:36:38Z</LockCloseTime>
  <LockCloseSealCount>2</LockCloseSealCount>
  <LockCloseSeal>3413</LockCloseSeal>
  <IsDuplicateCloseSeal>false</IsDuplicateCloseSeal>
  <IsKeyAuditRecordCRCInvalid>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
<UserKeyAuditRecord>
  <EventType>Open Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>
  <LockName>Gen2Lock 1000107</LockName>
  <EventDate>2012-08-28T14:14:38Z</EventDate>
  <LockOpenTime>2012-08-28T14:14:38Z</LockOpenTime>
  <LockCloseTime/>
  <LockCloseSealCount>7</LockCloseSealCount>
  <LockCloseSeal/>
  <IsDuplicateCloseSeal>false</IsDuplicateCloseSeal>
  <IsKeyAuditRecordCRCInvalid>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
<UserKeyAuditRecord>
  <EventType>Open/Close Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>
  <LockName>Gen2Lock 1000107</LockName>
  <EventDate>2012-05-23T17:50:14Z</EventDate>
  <LockOpenTime>2012-05-23T17:50:14Z</LockOpenTime>
  <LockCloseTime>2012-05-23T17:50:46Z</LockCloseTime>
  <LockCloseSealCount>6</LockCloseSealCount>
  <LockCloseSeal>0686</LockCloseSeal>
  <IsDuplicateCloseSeal>false</IsDuplicateCloseSeal>
  <IsKeyAuditRecordCRCInvalid>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
<UserKeyAuditRecord>
  <EventType>Open Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>

```

```

<LockName>Gen2Lock 1000107</LockName>
<EventDate>2012-05-23T17:45:22Z</EventDate>
<LockOpenTime>2012-05-23T17:45:22Z</LockOpenTime>
<LockCloseTime/>
<LockCloseSealCount>5</LockCloseSealCount>
<LockCloseSeal/>
<IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
<IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
<UserKeyAuditRecord>
  <EventType>Open/Close Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>
  <LockName>Gen2Lock 1000107</LockName>
  <EventDate>2012-04-16T18:48:54Z</EventDate>
  <LockOpenTime>2012-04-16T18:48:54Z</LockOpenTime>
  <LockCloseTime>2012-04-16T18:51:34Z</LockCloseTime>
  <LockCloseSealCount>4</LockCloseSealCount>
  <LockCloseSeal>1745</LockCloseSeal>
  <IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
  <IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
<UserKeyAuditRecord>
  <EventType>Open/Close Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>
  <LockName>Gen2Lock 1000107</LockName>
  <EventDate>2012-04-16T17:14:28Z</EventDate>
  <LockOpenTime>2012-04-16T17:14:28Z</LockOpenTime>
  <LockCloseTime>2012-04-16T17:14:28Z</LockCloseTime>
  <LockCloseSealCount>3</LockCloseSealCount>
  <LockCloseSeal>4301</LockCloseSeal>
  <IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
  <IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
<UserKeyAuditRecord>
  <EventType>Open/Close Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>
  <LockName>Gen2Lock 1000107</LockName>
  <EventDate>2012-03-01T20:34:14Z</EventDate>
  <LockOpenTime>2012-03-01T20:34:14Z</LockOpenTime>
  <LockCloseTime>2012-03-01T20:34:14Z</LockCloseTime>
  <LockCloseSealCount>2</LockCloseSealCount>
  <LockCloseSeal>9913</LockCloseSeal>
  <IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
  <IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
<UserKeyAuditRecord>
  <EventType>Open Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>
  <LockName>Gen2Lock 1000107</LockName>
  <EventDate>2011-10-27T16:13:24Z</EventDate>
  <LockOpenTime>2011-10-27T16:13:24Z</LockOpenTime>
  <LockCloseTime/>
  <LockCloseSealCount>5</LockCloseSealCount>
  <LockCloseSeal/>
  <IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
  <IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
<UserKeyAuditRecord>
  <EventType>Open Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>
  <LockName>Gen2Lock 1000107</LockName>
  <EventDate>2011-10-27T15:51:36Z</EventDate>
  <LockOpenTime>2011-10-27T15:51:36Z</LockOpenTime>
  <LockCloseTime/>
  <LockCloseSealCount>3</LockCloseSealCount>
  <LockCloseSeal/>
  <IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
  <IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
<UserKeyAuditRecord>
  <EventType>Open Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>
  <LockName>Gen2Lock 1000107</LockName>
  <EventDate>2011-10-24T17:33:08Z</EventDate>
  <LockOpenTime>2011-10-24T17:33:08Z</LockOpenTime>
  <LockCloseTime/>
  <LockCloseSealCount>2</LockCloseSealCount>
  <LockCloseSeal/>
  <IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
  <IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
<UserKeyAuditRecord>
  <EventType>Open Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>
  <LockName>Gen2Lock 1000107</LockName>
  <EventDate>2011-10-24T17:22:12Z</EventDate>
  <LockOpenTime>2011-10-24T17:22:12Z</LockOpenTime>
  <LockCloseTime/>
  <LockCloseSealCount>2</LockCloseSealCount>
  <LockCloseSeal/>

```


[illegible]

```

    <LockCloseSeal>1866</LockCloseSeal>
    <IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
    <IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
  </UserKeyAuditRecord>
</RESPONSE_READ_USER_KEY>

```

Example 2 - Failure: Unknown key

Input Transaction:

```

<TRANSACTION_READ_USER_KEY>
  <IPAddress>10.108.6.102:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_USER_KEY>

```

Output Transaction:

In this example, the user key does not exist in the database.

```

<RESPONSE_READ_USER_KEY>
  <TRANSACTION_READ_USER_KEY>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_USER_KEY>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_USER_NOT_FOUND</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>User key serial number being read was not found in database.</Description>
  </ResultRecord>
</RESPONSE_READ_USER_KEY>

```

Example 3 - Failure: No key in reader

Input Transaction:

```

<TRANSACTION_READ_USER_KEY>
  <IPAddress>10.108.6.102:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_USER_KEY>

```

Output Transaction:

In this example, there is no key in the keybox reader slot.

```

<RESPONSE_READ_USER_KEY>
  <TRANSACTION_READ_USER_KEY>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_USER_KEY>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_PCIO_COMMS_TM_KEY_NOT_PRESENT</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Failed to locate key in key reader: There is no key in the indicated key
reader slot.</Description>
  </ResultRecord>
</RESPONSE_READ_USER_KEY>

```

2.4.9 User XML File Transactions - Delete User

CenTran Programming Reference Manual

This transaction is used to delete a user from the Cencon database based on the user name.

Note

CenTran is supporting only lock user key types for add key, edit key, and delete transactions. CenTran will not add, edit, or delete Cencon / CenTran logon key types. This is for security reasons. CenTran may be operating under a single token method of authorization (I.E. user name/password, etc). The Cencon / CenTran logon key types represent a dual token method of authorization.

Transaction information required:

- User ID - Uniquely identifies a user record to be deleted.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the deleted user record..

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- User doesn't exist.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Example 1 - Success

Input Transaction:

```
<TRANSACTION_DELETE_USER>
  <UserID>fbob</UserID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_USER>
```

Output Transaction:

```
<RESPONSE_DELETE_USER>
  <TRANSACTION_DELETE_USER>
    <UserID>fbob</UserID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_USER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>The user delete succeeded.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>fbob</UserID>
    <SecurityLevel>2</SecurityLevel>
    <KeyID>000000419428</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>0</NumberCombosIssued>
    <CreationDate></CreationDate>
    <DeletionDate>2012-08-28T18:06:06.276Z</DeletionDate>
    <Nickname>Bob Edw</Nickname>
    <NicknameExpirationDate>2003-03-28T08:55:44Z</NicknameExpirationDate>
    <GroupName></GroupName>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Window1Start>0</Window1Start>
    <Window1Duration>0</Window1Duration>
    <IfWindow1Sun>>false</IfWindow1Sun>
    <IfWindow1Mon>>false</IfWindow1Mon>
    <IfWindow1Tue>>false</IfWindow1Tue>
    <IfWindow1Wed>>false</IfWindow1Wed>
    <IfWindow1Thu>>false</IfWindow1Thu>
    <IfWindow1Fri>>false</IfWindow1Fri>
    <IfWindow1Sat>>false</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>>false</IfWindow2Sun>
    <IfWindow2Mon>>false</IfWindow2Mon>
    <IfWindow2Tue>>false</IfWindow2Tue>
    <IfWindow2Wed>>false</IfWindow2Wed>
    <IfWindow2Thu>>false</IfWindow2Thu>
    <IfWindow2Fri>>false</IfWindow2Fri>
    <IfWindow2Sat>>false</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>>false</IfWindow3Sun>
    <IfWindow3Mon>>false</IfWindow3Mon>
    <IfWindow3Tue>>false</IfWindow3Tue>
    <IfWindow3Wed>>false</IfWindow3Wed>
    <IfWindow3Thu>>false</IfWindow3Thu>
    <IfWindow3Fri>>false</IfWindow3Fri>
    <IfWindow3Sat>>false</IfWindow3Sat>
    <Region>KENTUCKY</Region>
    <ServiceBranch></ServiceBranch>
```

```

    <FirstName/>
    <MiddleName/>
    <LastName/>
    <LastUsedDate>2011-07-19T17:07:50.623Z</LastUsedDate>
    <AuthorizationRole>Route</AuthorizationRole>
    <BankUserID>0</BankUserID>
    <TotalNumberCombosIssued>3</TotalNumberCombosIssued>
    <MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
    <EnabledStartDate/>
    <EnabledEndDate/>
    <BankBranchName/>
    <CustomerID/>
    <UserCombo>0</UserCombo>
    <IfMustChangeCombo>true</IfMustChangeCombo>
    <IfLegacyImport>false</IfLegacyImport>
  </UserRecord>
</RESPONSE_DELETE_USER>

```

Example 2 - Failure

Input Transaction:

```

<TRANSACTION_DELETE_USER>
  <UserID>CDD</UserID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_USER>

```

Output Transaction:

In this example, user CDD that is being deleted is a dispatcher.

```

<RESPONSE_DELETE_USER>
  <TRANSACTION_DELETE_USER>
    <UserID>CDD</UserID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_USER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_NOT_AUTHORIZED_TO_DO_OPERATION</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>CenTran only supports deleting FLM, Route, and Bank mode lock users.
  </Description>
  </ResultRecord>
</RESPONSE_DELETE_USER>

```


2.4.10 User XML File Transactions - User Table Query

CenTran Programming Reference Manual

This transaction queries the user table for a set of user records. The query record in the input transaction file contains a set of user fields to create a query from. The query record also contains a flag indicating if to use like search or exact search. The query transaction attempts to work in a similar fashion as Cencon's 'Find Users' form to search for users to be displayed in a user report.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the user records in the user table are retrieved.

- User ID
- Nickname
- Group Name
- Key ID
- Array of user authorization roles (FLM, Supervisor etc)
- Combo Issued range (Combo Issued Minimum and Combo Issued Maximum)
- Has Time Window Set flag
- Has Group Name Access Check flag
- Creation Date range (Creation Date Start and Creation Date End)
- Deletion Date range (Deletion Date Start and Deletion Date End - applies to User History and User Archive Table search)
- Last Used Date range (Last Used Date Start and Last Used Date End)
- Enabled Start Date range (Enabled Start Date Start and Enabled Start Date End)
- Enabled End Date range (Enabled End Date Start and Enabled End Date End)
- Region Name
- Customer ID
- Service Branch
- First Name
- Middle Name
- Last Name
- Bank Branch Name
- Lock Serial Number - This specifies to search for users dispatched to a lock serial number.
- List Key Model - This specifies key models (can types) to search for.
- If Search Enabled Users - This specifies to return only enabled users.
- If Search Dispatches Exceeded - This specifies to return only users who have exceeded their permitted number of dispatches.
- If Has Time Window - This specifies to return only users who have a time window restriction defined.
- If Group Name Access Check - This specifies to do a comparison for group name access. Group based access restriction is no longer supported. This field is for backwards compatibility.
- Bank User ID - This specifies to search for a numeric bank user id.
- Bank Branch Name - This specifies to search for users assigned to the specified bank branch.
- If Legacy Import - This specifies to search for users that are a legacy import from an earlier version of the Cenbank software.
- If Search Exact Flag - This specifies that strings used in the search must be an exact match.
- If Post Fix Wild card Only - This specifies that approximate matches of strings are done against the start of the string.
- Dispatcher ID (Optional) - This is not part of the query record. If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Note: If the Dispatcher belongs to a local region and region control is enabled, only those users belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region even if a different value has already been provided in the query record.

Note: For the Creation Date Range, Deletion Date Range, Last Used Date Range and the Combo Issued Range, both the lower and upper bounds for the search have to be specified.

Note: If string fields such as Nickname or Customer ID are left blank, those fields are left out of the search query (CenTran does not search for user records having an empty Nickname or Customer ID field. This applies to all the query transactions.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the user records (with the encrypted password fields left blank) matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open user table.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_USER_QUERY>
<UserQueryRecord>
  <!-- char string -->
  <CustomerID>ACustomer</CustomerID>
  <!-- char string -->
  <ServiceBranch>Dieb</ServiceBranch>
  <!-- char string -->
  <FirstName>Query</FirstName>
  <!-- char string -->
  <MiddleName>Q</MiddleName>
  <!-- char string -->
  <LastName>User</LastName>
  <!-- char string -->
  <Nickname>Qu</Nickname>
```

```

<!-- long -->
<CombosIssuedMinimum>2</CombosIssuedMinimum>
<!-- long -->
<CombosIssuedMaximum>4</CombosIssuedMaximum>
<!-- date -->
<CreationDateStart>2004-12-21T15:00:00</CreationDateStart>
<!-- date -->
<CreationDateEnd>2004-12-23T16:00:00</CreationDateEnd>
<!-- date -->
<LastUsedDateStart>2005-03-01T15:00:00</LastUsedDateStart>
<!-- date -->
<LastUsedDateEnd>2005-04-02T16:00:00</LastUsedDateEnd>
<!-- boolean -->
<IfHasTimeWindow>1</IfHasTimeWindow>
<!-- char string -->
<Region>TestRegionD</Region>
<!-- boolean -->
<IfSearchExact>1</IfSearchExact>
</UserQueryRecord>
<!-- char string -->
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_QUERY>

```

Output Transaction:

```

<RESPONSE_USER_QUERY>
  <TRANSACTION_USER_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UserQueryRecord>
      <CustomerID>ACustomer</CustomerID>
      <ServiceBranch>Dieb</ServiceBranch>
      <FirstName>Query</FirstName>
      <MiddleName>Q</MiddleName>
      <LastName>User</LastName>
      <Nickname>Qu</Nickname>
      <CombosIssuedMinimum>2</CombosIssuedMinimum>
      <CombosIssuedMaximum>4</CombosIssuedMaximum>
      <CreationDateStart>2004-12-21T15:00:00</CreationDateStart>
      <CreationDateEnd>2004-12-23T16:00:00</CreationDateEnd>
      <LastUsedDateStart>2005-03-01T15:00:00</LastUsedDateStart>
      <LastUsedDateEnd>2005-04-02T16:00:00</LastUsedDateEnd>
      <IfHasTimeWindow>1</IfHasTimeWindow>
      <Region>TestRegionD</Region>
      <IfSearchExact>1</IfSearchExact>
    </UserQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>User record/s found satisfying the search condition.
    </Description>
  </ResultRecord>
  <UserRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <UserID>TestQueryUser1</UserID>
    <Nickname>Qu</Nickname>
    <GroupName>aa</GroupName>
    <KeyID>000000946CD8</KeyID>
    <CanType>04</CanType>
    <SecurityLevel>2</SecurityLevel>
    <NicknameExpirationDate>1969-12-31T23:40:42</NicknameExpirationDate>
    <NumberCombosIssued>3</NumberCombosIssued>
    <NumberTimeWindows>1</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>90</Window1Duration>
    <IfWindow1Sun>0</IfWindow1Sun>
    <IfWindow1Mon>1</IfWindow1Mon>
    <IfWindow1Tue>1</IfWindow1Tue>
    <IfWindow1Wed>0</IfWindow1Wed>
    <IfWindow1Thu>0</IfWindow1Thu>
    <IfWindow1Fri>0</IfWindow1Fri>
    <IfWindow1Sat>0</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>0</IfWindow2Sun>
    <IfWindow2Mon>0</IfWindow2Mon>
    <IfWindow2Tue>0</IfWindow2Tue>
    <IfWindow2Wed>0</IfWindow2Wed>
    <IfWindow2Thu>0</IfWindow2Thu>
    <IfWindow2Fri>0</IfWindow2Fri>
    <IfWindow2Sat>0</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>0</IfWindow3Sun>
    <IfWindow3Mon>0</IfWindow3Mon>
    <IfWindow3Tue>0</IfWindow3Tue>
    <IfWindow3Wed>0</IfWindow3Wed>
    <IfWindow3Thu>0</IfWindow3Thu>
    <IfWindow3Fri>0</IfWindow3Fri>
    <IfWindow3Sat>0</IfWindow3Sat>
    <CreationDate>2004-12-22T15:49:18.765Z</CreationDate>
    <DeletionDate xsi:nil="true" />
    <UserPassword />
    <Region>TestRegionD</Region>
    <ServiceBranch>Dieb</ServiceBranch>
    <FirstName>Query</FirstName>
  </UserRecord>
</RESPONSE_USER_QUERY>

```

```
<MiddleName>Q</MiddleName>
<LastName>User</LastName>
<LastUsedDate>2005-04-01T17:19:52.763Z</LastUsedDate>
<AuthorizationRole>Route</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>0</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate xsi:nil="true" />
<EnabledEndDate xsi:nil="true" />
<BankBranchName />
<CustomerID>ACustomer</CustomerID>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>1</IfMustChangeCombo>
</UserRecord>
</RESPONSE_USER_QUERY>
```

2.4.11 User XML File Transactions - User Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the user table matching the given query condition. This transaction uses the same format as the User Table Query transaction. Note that you can search for any of the user database columns. The specified search items are "anded" together for the query.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_USER_QUERY_COUNT>
  <UserQueryRecord>
    <!-- char string -->
    <Region>TestRegionD</Region>
    <!-- List of strings -->
    <ListAuthorizationRoles>
      <AuthorizationRole>FLM</AuthorizationRole>
      <AuthorizationRole>Bank</AuthorizationRole>
      <AuthorizationRole>Supervisor</AuthorizationRole>
    </ListAuthorizationRoles>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_QUERY_COUNT>
```

Output Transaction:

In this example, the output indicates that there are 4 FLM/Bank/Supervisor users in region TestRegionD.

```
<RESPONSE_USER_QUERY_COUNT>
  <TRANSACTION_USER_QUERY_COUNT xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <UserQueryRecord>
      <Region>TestRegionD</Region>
      <ListAuthorizationRoles>
        <AuthorizationRole>FLM</AuthorizationRole>
        <AuthorizationRole>Bank</AuthorizationRole>
        <AuthorizationRole>Supervisor</AuthorizationRole>
      </ListAuthorizationRoles>
    </UserQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of user records matching the given query: 4.
    </Description>
  </ResultRecord>
  <QueryCount>4</QueryCount>
</RESPONSE_USER_QUERY_COUNT>
```

2.4.12 User XML File Transactions - User History Table Query

CenTran Programming Reference Manual

This transaction operates in the same manner as the User Table Query, but is applied against the User History Table.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_USER_HISTORY_QUERY>
  <UserQueryRecord>
    <!-- char string -->
    <CustomerID>Cust</CustomerID>
    <!-- char string -->
    <ServiceBranch>D</ServiceBranch>
    <!-- date -->
    <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
    <!-- date -->
    <DeletionDateEnd>2007-04-02T16:00:00</DeletionDateEnd>
    <!-- bool -->
    <IfSearchExact>0</IfSearchExact>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_HISTORY_QUERY>
```

Output Transaction:

Here, all records in the user history table which have Customer ID like 'Cust' (If Search Exact flag is set to false), Service Branch like 'D' (If Search Exact flag is set to false) and Deletion Date between 2005-03-01 15:00:00 and 2007-04-02 16:00:00 are retrieved. There are two records which match the search condition. The actual Customer ID in these two records is 'ACustomer' and the actual service branch in these two records is 'Dieb'.

```
<RESPONSE_USER_HISTORY_QUERY>
  <TRANSACTION_USER_HISTORY_QUERY xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <UserQueryRecord>
      <CustomerID>Cust</CustomerID>
      <ServiceBranch>D</ServiceBranch>
      <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
      <DeletionDateEnd>2007-04-02T16:00:00</DeletionDateEnd>
      <IfSearchExact>0</IfSearchExact>
    </UserQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_HISTORY_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>User history record/s found satisfying the search condition.</Description>
  </ResultRecord>
  <UserRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <UserID>TestQueryUser1</UserID>
    <Nickname>Qu</Nickname>
    <GroupName>aa</GroupName>
    <KeyID>000000946CD8</KeyID>
    <CanType>04</CanType>
    <SecurityLevel>2</SecurityLevel>
    <NicknameExpirationDate>1969-12-31T23:40:42</NicknameExpirationDate>
    <NumberCombosIssued>3</NumberCombosIssued>
    <NumberTimeWindows>1</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>90</Window1Duration>
    <IfWindow1Sun>0</IfWindow1Sun>
    <IfWindow1Mon>1</IfWindow1Mon>
    <IfWindow1Tue>1</IfWindow1Tue>
    <IfWindow1Wed>0</IfWindow1Wed>
    <IfWindow1Thu>0</IfWindow1Thu>
    <IfWindow1Fri>0</IfWindow1Fri>
    <IfWindow1Sat>0</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>0</IfWindow2Sun>
    <IfWindow2Mon>0</IfWindow2Mon>
    <IfWindow2Tue>0</IfWindow2Tue>
    <IfWindow2Wed>0</IfWindow2Wed>
    <IfWindow2Thu>0</IfWindow2Thu>
    <IfWindow2Fri>0</IfWindow2Fri>
    <IfWindow2Sat>0</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>0</IfWindow3Sun>
    <IfWindow3Mon>0</IfWindow3Mon>
    <IfWindow3Tue>0</IfWindow3Tue>
    <IfWindow3Wed>0</IfWindow3Wed>
    <IfWindow3Thu>0</IfWindow3Thu>
    <IfWindow3Fri>0</IfWindow3Fri>
    <IfWindow3Sat>0</IfWindow3Sat>
    <CreationDate>2004-12-22T15:49:18</CreationDate>
    <DeletionDate>2005-12-22T15:49:18</DeletionDate>
    <UserPassword />
    <Region>TestRegionD</Region>
    <ServiceBranch>Dieb</ServiceBranch>
    <FirstName>Query</FirstName>
    <MiddleName>Q</MiddleName>
    <LastName>User</LastName>
```

```

<LastUsedDate>2005-04-01T17:19:52</LastUsedDate>
<AuthorizationRole>Route</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>0</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate xsi:nil="true" />
<EnabledEndDate xsi:nil="true" />
<BankBranchName />
<CustomerID>ACustomer</CustomerID>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>1</IfMustChangeCombo>
</UserRecord>
<UserRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <UserID>TestQueryUser1</UserID>
  <Nickname>Qu</Nickname>
  <GroupName>aa</GroupName>
  <KeyID>000000946CD8</KeyID>
  <CanType>04</CanType>
  <SecurityLevel>2</SecurityLevel>
  <NicknameExpirationDate>1969-12-31T23:40:42</NicknameExpirationDate>
  <NumberCombosIssued>3</NumberCombosIssued>
  <NumberTimeWindows>1</NumberTimeWindows>
  <Window1Start>80</Window1Start>
  <Window1Duration>90</Window1Duration>
  <IfWindow1Sun>0</IfWindow1Sun>
  <IfWindow1Mon>1</IfWindow1Mon>
  <IfWindow1Tue>1</IfWindow1Tue>
  <IfWindow1Wed>0</IfWindow1Wed>
  <IfWindow1Thu>0</IfWindow1Thu>
  <IfWindow1Fri>0</IfWindow1Fri>
  <IfWindow1Sat>0</IfWindow1Sat>
  <Window2Start>0</Window2Start>
  <Window2Duration>0</Window2Duration>
  <IfWindow2Sun>0</IfWindow2Sun>
  <IfWindow2Mon>0</IfWindow2Mon>
  <IfWindow2Tue>0</IfWindow2Tue>
  <IfWindow2Wed>0</IfWindow2Wed>
  <IfWindow2Thu>0</IfWindow2Thu>
  <IfWindow2Fri>0</IfWindow2Fri>
  <IfWindow2Sat>0</IfWindow2Sat>
  <Window3Start>0</Window3Start>
  <Window3Duration>0</Window3Duration>
  <IfWindow3Sun>0</IfWindow3Sun>
  <IfWindow3Mon>0</IfWindow3Mon>
  <IfWindow3Tue>0</IfWindow3Tue>
  <IfWindow3Wed>0</IfWindow3Wed>
  <IfWindow3Thu>0</IfWindow3Thu>
  <IfWindow3Fri>0</IfWindow3Fri>
  <IfWindow3Sat>0</IfWindow3Sat>
  <CreationDate>2005-04-02T15:49:18</CreationDate>
  <DeletionDate>2006-12-22T15:49:18</DeletionDate>
  <UserPassword />
  <Region>TestRegionD</Region>
  <ServiceBranch>Dieb</ServiceBranch>
  <FirstName>Query</FirstName>
  <MiddleName>Q</MiddleName>
  <LastName>User</LastName>
  <LastUsedDate>2005-04-02T17:19:52</LastUsedDate>
  <AuthorizationRole>Route</AuthorizationRole>
  <BankUserID>0</BankUserID>
  <TotalNumberCombosIssued>0</TotalNumberCombosIssued>
  <MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
  <EnabledStartDate xsi:nil="true" />
  <EnabledEndDate xsi:nil="true" />
  <BankBranchName />
  <CustomerID>ACustomer</CustomerID>
  <UserCombo>0</UserCombo>
  <IfMustChangeCombo>1</IfMustChangeCombo>
</UserRecord>
</RESPONSE_USER_HISTORY_QUERY>

```

2.4.13 User XML File Transactions - User History Table Query Record Count

CenTran Programming Reference Manual

This transaction operates in the same manner as the User Table Query Record Count, but is applied against the User History Table.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_USER_HISTORY_QUERY_COUNT>
  <UserQueryRecord>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ServiceBranch>D</ServiceBranch>
    <!-- date -->
    <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
    <!-- date -->
    <DeletionDateEnd>2007-04-02T16:00:00</DeletionDateEnd>
    <!-- bool -->
    <IfSearchExact>1</IfSearchExact>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_HISTORY_QUERY_COUNT>
```

Output Transaction:

In this transaction, the Search Exact Flag has been set to true and there are no user history records with Service Branch equal to 'D'. Therefore the query count is 0.

```
<RESPONSE_USER_HISTORY_QUERY_COUNT>
  <TRANSACTION_USER_HISTORY_QUERY_COUNT xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <UserQueryRecord>
      <CustomerID>ACustomer</CustomerID>
      <ServiceBranch>D</ServiceBranch>
      <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
      <DeletionDateEnd>2007-04-02T16:00:00</DeletionDateEnd>
      <IfSearchExact>1</IfSearchExact>
    </UserQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_HISTORY_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of user history records matching the given query: 0.
  </ResultRecord>
  <QueryCount>0</QueryCount>
</RESPONSE_USER_HISTORY_QUERY_COUNT>
```


2.4.14 User XML File Transactions - User Archive Table Query

CenTran Programming Reference Manual

This transaction operates in the same manner as the User Table Query, but is applied against the User Archive Table.

Example 1 - Success

Input Transaction:

```
<TRANSACTION USER_ARCHIVE_QUERY>
  <UserQueryRecord>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ServiceBranch>Dieb</ServiceBranch>
    <!-- date -->
    <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
    <!-- date -->
    <DeletionDateEnd>2006-04-02T16:00:00</DeletionDateEnd>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_ARCHIVE_QUERY>
```

Output Transaction:

```
<RESPONSE USER_ARCHIVE_QUERY>
  <TRANSACTION_USER_ARCHIVE_QUERY xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <UserQueryRecord>
      <CustomerID>ACustomer</CustomerID>
      <ServiceBranch>Dieb</ServiceBranch>
      <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
      <DeletionDateEnd>2006-04-02T16:00:00</DeletionDateEnd>
    </UserQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_ARCHIVE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC OK</ErrorCode>
    <Description>User archive record/s found satisfying the search condition.
    </Description>
  </ResultRecord>
  <UserRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <UserID>TestQueryUser1</UserID>
    <Nickname>Qu</Nickname>
    <GroupName>aa</GroupName>
    <KeyID>000000946CD8</KeyID>
    <CanType>04</CanType>
    <SecurityLevel>2</SecurityLevel>
    <NicknameExpirationDate>1969-12-31T23:40:42</NicknameExpirationDate>
    <NumberCombosIssued>3</NumberCombosIssued>
    <NumberTimeWindows>1</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>90</Window1Duration>
    <IfWindow1Sun>0</IfWindow1Sun>
    <IfWindow1Mon>1</IfWindow1Mon>
    <IfWindow1Tue>1</IfWindow1Tue>
    <IfWindow1Wed>0</IfWindow1Wed>
    <IfWindow1Thu>0</IfWindow1Thu>
    <IfWindow1Fri>0</IfWindow1Fri>
    <IfWindow1Sat>0</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>0</IfWindow2Sun>
    <IfWindow2Mon>0</IfWindow2Mon>
    <IfWindow2Tue>0</IfWindow2Tue>
    <IfWindow2Wed>0</IfWindow2Wed>
    <IfWindow2Thu>0</IfWindow2Thu>
    <IfWindow2Fri>0</IfWindow2Fri>
    <IfWindow2Sat>0</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>0</IfWindow3Sun>
    <IfWindow3Mon>0</IfWindow3Mon>
    <IfWindow3Tue>0</IfWindow3Tue>
    <IfWindow3Wed>0</IfWindow3Wed>
    <IfWindow3Thu>0</IfWindow3Thu>
    <IfWindow3Fri>0</IfWindow3Fri>
    <IfWindow3Sat>0</IfWindow3Sat>
    <CreationDate>2004-12-22T15:49:18</CreationDate>
    <DeletionDate>2005-12-22T15:49:18</DeletionDate>
    <UserPassword />
    <Region>TestRegionD</Region>
    <ServiceBranch>Dieb</ServiceBranch>
    <FirstName>Query</FirstName>
    <MiddleName>Q</MiddleName>
    <LastName>User</LastName>
    <LastUsedDate>2005-04-01T17:19:52</LastUsedDate>
    <AuthorizationRole>Route</AuthorizationRole>
    <BankUserID>0</BankUserID>
    <TotalNumberCombosIssued>0</TotalNumberCombosIssued>
    <MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
    <EnabledStartDate xsi:nil="true" />
    <EnabledEndDate xsi:nil="true" />
```

```

    <BankBranchName />
    <CustomerID>ACustomer</CustomerID>
    <UserCombo>0</UserCombo>
    <IfMustChangeCombo>1</IfMustChangeCombo>
  </UserRecord>
</RESPONSE_USER_ARCHIVE_QUERY>

```

Example 2 - Success

Input Transaction:

```

<TRANSACTION_USER_ARCHIVE_QUERY>
  <UserQueryRecord>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ServiceBranch>Dieb</ServiceBranch>
    <!-- date -->
    <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
    <!-- date -->
    <DeletionDateEnd>2006-04-02T16:00:00</DeletionDateEnd>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>SuperUserLocalRegion</DispatcherID>
</TRANSACTION_USER_ARCHIVE_QUERY>

```

Output Transaction:

The dispatcher's region is local in scope and does not match the region of the user TestQueryUser1 (see example 1). Therefore no records are returned by the search query.

```

<RESPONSE_USER_ARCHIVE_QUERY>
  <TRANSACTION_USER_ARCHIVE_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UserQueryRecord>
      <CustomerID>ACustomer</CustomerID>
      <ServiceBranch>Dieb</ServiceBranch>
      <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
      <DeletionDateEnd>2006-04-02T16:00:00</DeletionDateEnd>
    </UserQueryRecord>
    <DispatcherID>SuperUserLocalRegion</DispatcherID>
  </TRANSACTION_USER_ARCHIVE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>No user archive record found satisfying the search condition.
    </Description>
  </ResultRecord>
</RESPONSE_USER_ARCHIVE_QUERY>

```

2.4.15 User XML File Transactions - User Archive Table Query Record Count

CenTran Programming Reference Manual

This transaction operates in the same manner as the User Table Query Record Count, but is applied against the User Archive Table.

Example 1 - Success

Input Transaction:

```
<TRANSACTION USER_ARCHIVE_QUERY_COUNT>
  <UserQueryRecord>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ServiceBranch>Dieb</ServiceBranch>
    <!-- date -->
    <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
    <!-- date -->
    <DeletionDateEnd>2006-04-02T16:00:00</DeletionDateEnd>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_ARCHIVE_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE USER_ARCHIVE_QUERY_COUNT>
  <TRANSACTION_USER_ARCHIVE_QUERY_COUNT xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UserQueryRecord>
      <CustomerID>ACustomer</CustomerID>
      <ServiceBranch>Dieb</ServiceBranch>
      <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
      <DeletionDateEnd>2006-04-02T16:00:00</DeletionDateEnd>
    </UserQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_ARCHIVE_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC OK</ErrorCode>
    <Description>Number of user archive records matching the given query: 1.
    </Description>
  </ResultRecord>
  <QueryCount>1</QueryCount>
</RESPONSE_USER_ARCHIVE_QUERY_COUNT>
```

2.5.1 Customer XML File Transactions - Add Customer

CenTran Programming Reference Manual

This transaction adds a customer record to the Cencon database customer table. The customer ID for the new customer must be a unique value.

Transaction information required:

- Customer ID
- Customer Number (Optional)
- Name (Optional)
- Address 1 (Optional)
- Address 2 (Optional)
- City (Optional)
- State (Optional)
- ZIP Code (Optional)
- Service Branch (Optional)
- Line Branch (Optional)
- Country (Optional)
- Telephone Number (Optional)
- FAX Number (Optional)
- Cell Phone Number (Optional)
- Point Of Contact Information (Optional)
- Email Information (Optional)
- Description (Optional)
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Customer ID
- Customer already exists
- Not authorized due to authorization role

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ADD_CUSTOMER>
  <CustomerRecord>
    <CustomerID>2nd Eastern Regional Bank</CustomerID>
    <CustomerNumber>123456</CustomerNumber>
    <CustomerName>AG</CustomerName>
    <CustomerAddress1>805 Press Ave</CustomerAddress1>
    <CustomerAddress2>Suite #19</CustomerAddress2>
    <CustomerCity>Lexington</CustomerCity>
    <CustomerState>KY</CustomerState>
    <CustomerZIP>40508</CustomerZIP>
    <ServiceBranch>Newton Pike</ServiceBranch>
    <LineBranch>Pike Newton</LineBranch>
    <CustomerCountry>US</CustomerCountry>
    <Telephone>(234) 123-4567</Telephone>
    <Fax>(234) 123-1234</Fax>
    <Cell>(123) 123-1234</Cell>
    <PointOfContact>Kaba Mas</PointOfContact>
    <Email>abc@kml.kaba.com</Email>
    <Description>An Eastern Bank</Description>
  </CustomerRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_CUSTOMER>
```

Output Transaction:

The customer is added successfully to the customer table in the database. The output transaction has the original input transaction (TRANSACTION_ADD_CUSTOMER) and a result record (indicating success).

```
<RESPONSE_ADD_CUSTOMER>
  <TRANSACTION_ADD_CUSTOMER>
    <CustomerRecord>
      <CustomerID>2nd Eastern Regional Bank</CustomerID>
      <CustomerNumber>123456</CustomerNumber>
      <CustomerName>AG</CustomerName>
      <CustomerAddress1>805 Press Ave</CustomerAddress1>
      <CustomerAddress2>Suite #19</CustomerAddress2>
      <CustomerCity>Lexington</CustomerCity>
      <CustomerState>KY</CustomerState>
      <CustomerZIP>40508</CustomerZIP>
      <ServiceBranch>Newton Pike</ServiceBranch>
      <LineBranch>Pike Newton</LineBranch>
      <CustomerCountry>US</CustomerCountry>
      <Telephone>(234) 123-4567</Telephone>
      <Fax>(234) 123-1234</Fax>
      <Cell>(123) 123-1234</Cell>
      <PointOfContact>Kaba Mas</PointOfContact>
      <Email>abc@kml.kaba.com</Email>
    </CustomerRecord>
  </TRANSACTION_ADD_CUSTOMER>
```

```

        <Description>An Eastern Bank</Description>
    </CustomerRecord>
    <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_CUSTOMER>
<ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Customer 2nd Eastern Regional Bank successfully added to the database.
</Description>
</ResultRecord>
</RESPONSE_ADD_CUSTOMER>

```

Example 2 - Failure

Input Transaction:

```

<TRANSACTION_ADD_CUSTOMER>
  <CustomerRecord>
    <CustomerID>123456789</CustomerID>
    <CustomerNumber>777</CustomerNumber>
    <CustomerName>AG</CustomerName>
    <CustomerAddress1>888 Press Avenue</CustomerAddress1>
    <CustomerAddress2>Apt 121</CustomerAddress2>
    <CustomerCity>Lexington</CustomerCity>
    <CustomerState>KY</CustomerState>
    <CustomerZIP>40508</CustomerZIP>
    <ServiceBranch>Newton Pike</ServiceBranch>
    <LineBranch>Pike Newton</LineBranch>
    <CustomerCountry>US</CustomerCountry>
    <Telephone>(234) 123-4567</Telephone>
    <Fax>(234) 123-1234</Fax>
    <Cell>(123) 123-1234</Cell>
    <PointOfContact>Kaba Mas</PointOfContact>
    <Email>abc@kml.kaba.com</Email>
    <Description>Attempt at adding existing customer record</Description>
  </CustomerRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_CUSTOMER>

```

Output Transaction:

In this example, Customer ID 123456789 already exists in the customer table and therefore the transaction fails.

```

<RESPONSE_ADD_CUSTOMER>
  <TRANSACTION_ADD_CUSTOMER>
    <CustomerRecord>
      <CustomerID>123456789</CustomerID>
      <CustomerNumber>777</CustomerNumber>
      <CustomerName>AG</CustomerName>
      <CustomerAddress1>888 Press Avenue</CustomerAddress1>
      <CustomerAddress2>Apt 121</CustomerAddress2>
      <CustomerCity>Lexington</CustomerCity>
      <CustomerState>KY</CustomerState>
      <CustomerZIP>40508</CustomerZIP>
      <ServiceBranch>Newton Pike</ServiceBranch>
      <LineBranch>Pike Newton</LineBranch>
      <CustomerCountry>US</CustomerCountry>
      <Telephone>(234) 123-4567</Telephone>
      <Fax>(234) 123-1234</Fax>
      <Cell>(123) 123-1234</Cell>
      <PointOfContact>Kaba Mas</PointOfContact>
      <Email>abc@kml.kaba.com</Email>
      <Description>Attempt at adding existing customer record</Description>
    </CustomerRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_CUSTOMER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FAILED_ADD_CUSTOMER_ALREADY_EXISTS</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Customer 123456789 already exists.</Description>
  </ResultRecord>
</RESPONSE_ADD_CUSTOMER>

```

2.5.2 Customer XML File Transactions - Read Customer

CenTran Programming Reference Manual

This transaction reads a customer from the database.

Transaction information required:

- Customer ID
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the customer record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Customer does not exist
- Not authorized due to authorization role

Example 1 - Success

Input Transaction:

```
<TRANSACTION_READ_CUSTOMER>
  <CustomerID>2nd Eastern Regional Bank</CustomerID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_CUSTOMER>
```

Output Transaction:

```
<RESPONSE_READ_CUSTOMER>
  <TRANSACTION_READ_CUSTOMER>
    <CustomerID>2nd Eastern Regional Bank</CustomerID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_CUSTOMER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Success</Description>
  </ResultRecord>
  <CustomerRecord>
    <CustomerID>2nd Eastern Regional Bank</CustomerID>
    <CustomerNumber>123456</CustomerNumber>
    <CustomerName>AG</CustomerName>
    <CustomerAddress1>805 Press Ave</CustomerAddress1>
    <CustomerAddress2>Suite #19</CustomerAddress2>
    <CustomerCity>Lexington</CustomerCity>
    <CustomerState>KY</CustomerState>
    <CustomerZIP>40508</CustomerZIP>
    <ServiceBranch>Newton Pike</ServiceBranch>
    <LineBranch>Pike Newton</LineBranch>
    <CustomerCountry>US</CustomerCountry>
    <Telephone>(234) 123-4567</Telephone>
    <Fax>(234) 123-1234</Fax>
    <Cell>(123) 123-1234</Cell>
    <PointOfContact>Kaba Mas</PointOfContact>
    <Email>abc@kml.kaba.com</Email>
    <Description>An Eastern Bank</Description>
  </CustomerRecord>
</RESPONSE_READ_CUSTOMER>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_READ_CUSTOMER>
  <CustomerID>2nd Eastern Regional Bank</CustomerID>
  <DispatcherID>Auth test user</DispatcherID>
</TRANSACTION_READ_CUSTOMER>
```

Output Transaction:

Here, dispatcher rzjll is not authorized to read customer data.

```
<RESPONSE_READ_CUSTOMER>
  <TRANSACTION_READ_CUSTOMER>
    <CustomerID>2nd Eastern Regional Bank</CustomerID>
    <DispatcherID>Auth test user</DispatcherID>
  </TRANSACTION_READ_CUSTOMER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_NOT_AUTHORIZED_TO_DO_OPERATION</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Dispatcher not authorized to perform this operation: Read Customer Data.
  </Description>
</ResultRecord>
```

```
</RESPONSE_READ_CUSTOMER>
```

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2.5.3 Customer XML File Transactions - Update Customer

CenTran Programming Reference Manual

This transaction updates data for an existing customer in the database. The customer fields to be updated have to be specified in the input transaction. Those customer fields that are not specified in the input transaction will not be changed from their current values.

Transaction information required:

- Customer ID
- Customer Number (Optional) – The new value for this field
- Name (Optional) – The new value for this field
- Address 1 (Optional) – The new value for this field
- Address 2 (Optional) – The new value for this field
- City (Optional) – The new value for this field
- State (Optional) – The new value for this field
- ZIP Code (Optional) – The new value for this field
- Service Branch (Optional) – The new value for this field
- Line Branch (Optional) – The new value for this field
- Country (Optional) – The new value for this field
- Telephone Number (Optional) – The new value for this field
- FAX Number (Optional) – The new value for this field
- Cell Phone Number (Optional) – The new value for this field
- Point Of Contact Information (Optional) – The new value for this field
- Email Information (Optional) – The new value for this field
- Description (Optional) – The new value for this field
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the updated customer record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Customer ID
- Customer does not exist
- Not authorized due to authorization role

Example 1 - Success

Input Transaction:

```
<TRANSACTION_UPDATE_CUSTOMER>
  <UpdateCustomerRecord>
    <Description>Updating Customer Record</Description>
    <CustomerAddress2>Suite #13</CustomerAddress2>
    <CustomerAddress1>809 Transcript Ave</CustomerAddress1>
    <CustomerNumber>123321</CustomerNumber>
    <CustomerID>2nd Eastern Regional Bank</CustomerID>
  </UpdateCustomerRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_CUSTOMER>
```

Output Transaction:

The output transaction has the original input transaction (TRANSACTION_UPDATE_CUSTOMER), a result record (indicating success) and the updated customer record with new Customer Number, Address1, Address 2 and Description values.

```
<RESPONSE_UPDATE_CUSTOMER>
  <TRANSACTION_UPDATE_CUSTOMER>
    <UpdateCustomerRecord>
      <Description>Updating Customer Record</Description>
      <CustomerAddress2>Suite #13</CustomerAddress2>
      <CustomerAddress1>809 Transcript Ave</CustomerAddress1>
      <CustomerNumber>123321</CustomerNumber>
      <CustomerID>2nd Eastern Regional Bank</CustomerID>
    </UpdateCustomerRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_CUSTOMER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Customer 2nd Eastern Regional Bank successfully updated in the database.
  </ResultRecord>
  <CustomerRecord>
    <CustomerID>2nd Eastern Regional Bank</CustomerID>
    <CustomerNumber>123321</CustomerNumber>
    <CustomerName>AG</CustomerName>
    <CustomerAddress1>809 Transcript Ave</CustomerAddress1>
    <CustomerAddress2>Suite #13</CustomerAddress2>
    <CustomerCity>Lexington</CustomerCity>
    <CustomerState>KY</CustomerState>
    <CustomerZIP>40508</CustomerZIP>
    <ServiceBranch>Newton Pike</ServiceBranch>
    <LineBranch>Pike Newton</LineBranch>
    <CustomerCountry>US</CustomerCountry>
    <Telephone>(234) 123-4567</Telephone>
```

```

<Fax>(234)123-1234</Fax>
<Cell>(123)123-1234</Cell>
<PointOfContact>Kaba Mas</PointOfContact>
<Email>abc@kml.kaba.com</Email>
<Description>Updating Customer Record</Description>
</CustomerRecord>
</RESPONSE_UPDATE_CUSTOMER>

```

Example 2 - Failure

Input Transaction:

```

<TRANSACTION_UPDATE_CUSTOMER>
  <UpdateCustomerRecord>
    <Description>Failed attempt to update customer record.</Description>
    <CustomerAddress2>Suite #13</CustomerAddress2>
    <CustomerAddress1>809 Transcript Ave</CustomerAddress1>
    <CustomerNumber>123456</CustomerNumber>
  </UpdateCustomerRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_CUSTOMER>

```

Output Transaction:

The transaction fails because the Customer ID is invalid (empty).

```

<RESPONSE_UPDATE_CUSTOMER>
  <TRANSACTION_UPDATE_CUSTOMER>
    <UpdateCustomerRecord>
      <Description>Failed attempt to update customer record.</Description>
      <CustomerAddress2>Suite #13</CustomerAddress2>
      <CustomerAddress1>809 Transcript Ave</CustomerAddress1>
      <CustomerNumber>123456</CustomerNumber>
    </UpdateCustomerRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_CUSTOMER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_INVALID_CUSTOMERID_BLANK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Invalid customer ID. Customer ID is blank.</Description>
  </ResultRecord>
</RESPONSE_UPDATE_CUSTOMER>

```

2.5.4 Customer XML File Transactions - Delete Customer

CenTran Programming Reference Manual

This transaction deletes a customer from the database.

Transaction information required:

- Customer ID
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Customer ID
- Customer does not exist
- Customer is being referenced by one or more locks, users, route, or bank branch.
- Not authorized due to authorization role

Example 1 - Failure

Input Transaction:

```
<TRANSACTION_DELETE_CUSTOMER>
  <CustomerID>NoCustomer</CustomerID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_CUSTOMER>
```

Output Transaction:

```
<RESPONSE_DELETE_CUSTOMER>
  <TRANSACTION_DELETE_CUSTOMER>
    <CustomerID>NoCustomer</CustomerID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_CUSTOMER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_CUSTOMER_NOT_FOUND</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to find customer NoCustomer in the customer table.</Description>
  </ResultRecord>
</RESPONSE_DELETE_CUSTOMER>
```

Example 2 - Success

Input Transaction:

```
<TRANSACTION_DELETE_CUSTOMER>
  <CustomerID>Yet Another Customer 3</CustomerID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_CUSTOMER>
```

Output Transaction:

```
<RESPONSE_DELETE_CUSTOMER>
  <TRANSACTION_DELETE_CUSTOMER>
    <CustomerID>Yet Another Customer 3</CustomerID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_CUSTOMER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Customer Yet Another Customer 3 has been deleted successfully.
  </ResultRecord>
</RESPONSE_DELETE_CUSTOMER>
```

2.5.5 Customer XML File Transactions - Query Customer Table

CenTran Programming Reference Manual

This transaction queries a customer table for a set of customer records. The query record in the input transaction file contains a set of customer fields to create a query from. The query record also contains a flag indicating if 'like' search or 'exact' search is to be used. The query transaction attempts to work in a similar fashion as Cencon's 'Find Customers' form to search for customers to be displayed in a customer report.

Transaction information required:

- Customer ID (Optional)
- Search Exact flag for Customer ID (Optional)
- Customer Number (Optional)
- Name (Optional)
- Address 1 (Optional)
- Address 2 (Optional)
- City (Optional)
- State (Optional)
- ZIP Code (Optional)
- Service Branch (Optional)
- Line Branch (Optional)
- Country (Optional)
- Telephone Number (Optional)
- FAX Number (Optional)
- Cell Phone Number (Optional)
- Point Of Contact Information (Optional)
- Email Information (Optional)
- Description (Optional)
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Note: If string fields such as Name or Customer ID are left blank, those fields are left out of the search query (CenTran does not search for customer records in which Name or Customer ID field is empty).

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the customer records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error – failed to open customer table

Example 1 - Success

Input Transaction:

```
<TRANSACTION_CUSTOMER_QUERY>
  <CustomerQueryRecord>
    <CustomerCity>Lexington</CustomerCity>
    <CustomerName>AG</CustomerName>
  </CustomerQueryRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_CUSTOMER_QUERY>
```

Output Transaction:

By default, all fields except Customer Number are searched for values 'like' those given in the query record. For example, searching for Customer Name like 'Cust' will return all records whose Customer Name has 'Cust' as a substring. The search 'exact' option is available for the CustomerID field alone.

```
<RESPONSE_CUSTOMER_QUERY>
  <TRANSACTION_CUSTOMER_QUERY>
    <CustomerQueryRecord>
      <CustomerCity>Lexington</CustomerCity>
      <CustomerName>AG</CustomerName>
    </CustomerQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CUSTOMER_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of customer records matching the given query: 3.</Description>
  </ResultRecord>
  <CustomerRecord>
    <CustomerID>123456789</CustomerID>
    <CustomerNumber>123456</CustomerNumber>
    <CustomerName>AG</CustomerName>
    <CustomerAddress1>805 Press Ave #19</CustomerAddress1>
    <CustomerAddress2>Lexington Kentucky</CustomerAddress2>
    <CustomerCity>Lexington</CustomerCity>
    <CustomerState>KY</CustomerState>
    <CustomerZIP>40508</CustomerZIP>
    <ServiceBranch>Newton Pike</ServiceBranch>
    <LineBranch>Pike Newton</LineBranch>
    <CustomerCountry>US</CustomerCountry>
    <Telephone>(234) 123-4567</Telephone>
```

```

    <Fax>(234)123-1234</Fax>
    <Cell>(123)123-1234</Cell>
    <PointOfContact>Mas Hamilton</PointOfContact>
    <Email>abc@kml.kaba.com</Email>
    <Description>Attempt at updating customer record</Description>
  </CustomerRecord>
</CustomerRecord>
<CustomerID>123456789012345678901234567890123456789012345678901234</CustomerID>
  <CustomerNumber>777</CustomerNumber>
  <CustomerName>AG</CustomerName>
  <CustomerAddress1>805 Press Avenue</CustomerAddress1>
  <CustomerAddress2>Apt 18</CustomerAddress2>
  <CustomerCity>Lexington</CustomerCity>
  <CustomerState>KY</CustomerState>
  <CustomerZIP>40508</CustomerZIP>
  <ServiceBranch>Newton Pike</ServiceBranch>
  <LineBranch>Pike Newton</LineBranch>
  <CustomerCountry>US</CustomerCountry>
  <Telephone>(234)123-4567</Telephone>
  <Fax>(234)123-1234</Fax>
  <Cell>(123)123-1234</Cell>
  <PointOfContact>Mas Hamilton</PointOfContact>
  <Email>abc@kml.kaba.com</Email>
  <Description>Attempt at adding customer record</Description>
</CustomerRecord>
<CustomerRecord>
  <CustomerID>2nd Eastern Regional Bank</CustomerID>
  <CustomerNumber>123321</CustomerNumber>
  <CustomerName>AG</CustomerName>
  <CustomerAddress1>809 Transcript Ave</CustomerAddress1>
  <CustomerAddress2>Suite #13</CustomerAddress2>
  <CustomerCity>Lexington</CustomerCity>
  <CustomerState>KY</CustomerState>
  <CustomerZIP>40508</CustomerZIP>
  <ServiceBranch>Newton Pike</ServiceBranch>
  <LineBranch>Pike Newton</LineBranch>
  <CustomerCountry>US</CustomerCountry>
  <Telephone>(234)123-4567</Telephone>
  <Fax>(234)123-1234</Fax>
  <Cell>(123)123-1234</Cell>
  <PointOfContact>Kaba Mas</PointOfContact>
  <Email>abc@kml.kaba.com</Email>
  <Description>Updating Customer Record</Description>
</CustomerRecord>
</RESPONSE_CUSTOMER_QUERY>

```

2.5.6 Customer XML File Transactions - Query Customer Table Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the customer table matching the given query condition. This transaction uses the same format as the Customer Table Query transaction.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_CUSTOMER_QUERY_COUNT>
  <CustomerQueryRecord>
    <CustomerCity>Lexington</CustomerCity>
    <CustomerName>AG</CustomerName>
  </CustomerQueryRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_CUSTOMER_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_CUSTOMER_QUERY_COUNT>
  <TRANSACTION_CUSTOMER_QUERY_COUNT>
    <CustomerQueryRecord>
      <CustomerCity>Lexington</CustomerCity>
      <CustomerName>AG</CustomerName>
    </CustomerQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CUSTOMER_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of customer records matching the given query: 3.</Description>
  </ResultRecord>
  <QueryCount>5</QueryCount>
</RESPONSE_CUSTOMER_QUERY_COUNT>
```

2.6.1 Bank Branch XML File Transactions - Add Bank Branch

CenTran Programming Reference Manual

This transaction adds a bank branch to the database.

Transaction information required:

- Bank Branch Name (64 character string)
- Bank Branch ID (0-9999 for Gen 1, 0-2 Billion for Gen 2)
- Customer ID (64 character string that must match an existing customer.)
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid bank branch name
- Bank branch name already exists
- Not authorized due to authorization role

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ADD_BANK_BRANCH>
  <BankBranchRecord>
    <BankBranchName>North East Bank Branch</BankBranchName>
    <BankBranchID>1235</BankBranchID>
    <CustomerID>North Bank</CustomerID>
  </BankBranchRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_BANK_BRANCH>
```

Output Transaction:

The bank branch is added successfully to the bank branch table in the database. The output transaction has the original input transaction (TRANSACTION_ADD_BANK_BRANCH) and a result record (indicating success).

```
<RESPONSE_ADD_BANK_BRANCH>
  <TRANSACTION_ADD_BANK_BRANCH>
    <BankBranchRecord>
      <BankBranchName>North East Bank Branch</BankBranchName>
      <BankBranchID>1235</BankBranchID>
      <CustomerID>North Bank</CustomerID>
    </BankBranchRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_BANK_BRANCH>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>BankBranch North East Bank Branch successfully added to the database.
  </Description>
  </ResultRecord>
</RESPONSE_ADD_BANK_BRANCH>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_ADD_BANK_BRANCH>
  <BankBranchRecord>
    <BankBranchName>North Bank Branch</BankBranchName>
    <BankBranchID>1234</BankBranchID>
    <CustomerID>North Bank</CustomerID>
  </BankBranchRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_BANK_BRANCH>
```

Output Transaction:

In this example, Bank branch name **North Bank Branch** already exists in the bank branch table.

```
<RESPONSE_ADD_BANK_BRANCH>
  <TRANSACTION_ADD_BANK_BRANCH>
    <BankBranchRecord>
      <BankBranchName>North Bank Branch</BankBranchName>
      <BankBranchID>1234</BankBranchID>
      <CustomerID>North Bank</CustomerID>
    </BankBranchRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_BANK_BRANCH>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_ADD_BANK_BRANCH_ALREADY_EXISTS</ErrorCode>
```



```
<IfRetryValid>false</IfRetryValid>  
  <Description>Bank Branch North Bank Branch already exists.</Description>  
</ResultRecord>  
</RESPONSE_ADD_BANK_BRANCH>
```

2.6.2 Bank Branch XML File Transactions - Read a Bank Branch

CenTran Programming Reference Manual

This transaction reads a bank branch from the database.

Transaction information required:

- Bank Branch Name
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the bank branch record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Bank branch does not exist
- Not authorized due to authorization role

Example 1 - Success

Input Transaction:

```
<TRANSACTION_READ_BANK_BRANCH>
  <BankBranchName>North Bank Branch</BankBranchName>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_BANK_BRANCH>
```

Output Transaction:

```
<RESPONSE_READ_BANK_BRANCH>
  <TRANSACTION_READ_BANK_BRANCH>
    <BankBranchName>North Bank Branch</BankBranchName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_BANK_BRANCH>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Success</Description>
  </ResultRecord>
  <BankBranchRecord>
    <BankBranchName>North Bank Branch</BankBranchName>
    <BankBranchID>1234</BankBranchID>
    <CustomerID>North Bank</CustomerID>
  </BankBranchRecord>
</RESPONSE_READ_BANK_BRANCH>
```

Example 2 - Failure because bank branch does not exist

Input Transaction:

```
<TRANSACTION_READ_BANK_BRANCH>
  <BankBranchName>NoBankBranch</BankBranchName>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_BANK_BRANCH>
```

Output Transaction:

Here, the bank branch **NoBankBranch** does not exist.

```
<RESPONSE_READ_BANK_BRANCH>
  <TRANSACTION_READ_BANK_BRANCH>
    <BankBranchName>NoBankBranch</BankBranchName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_BANK_BRANCH>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_BANK_BRANCH_NOT_FOUND</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to find the bank branch in the database bank branch table. The
bank branch name is not in the database bank branch table.</Description>
  </ResultRecord>
</RESPONSE_READ_BANK_BRANCH>
```

Example 3 - Failure because dispatcher is not authorized for access

Input Transaction:

```
<TRANSACTION_READ_BANK_BRANCH>
  <BankBranchName>North Bank Branch</BankBranchName>
  <DispatcherID>Auth test user</DispatcherID>
</TRANSACTION_READ_BANK_BRANCH>
```

Output Transaction:

Here, the dispatcher is not authorized to log onto Cencon or CenTran.

```
<RESPONSE_READ_BANK_BRANCH>
  <TRANSACTION_READ_BANK_BRANCH>
    <BankBranchName>North Bank Branch</BankBranchName>
    <DispatcherID>Auth test user</DispatcherID>
  </TRANSACTION_READ_BANK_BRANCH>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_NOT_AUTHORIZED_TO_LOG_ON</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>The current dispatcher is not authorized to log onto Cencon or CenTran.
Log On authorization is required to have access to Cencon operations or CenTran transactions.
</Description>
  </ResultRecord>
</RESPONSE_READ_BANK_BRANCH>
```

2.6.3 Bank Branch XML File Transactions - Update a Bank Branch

CenTran Programming Reference Manual

This transaction updates data for an existing bank branch in the database. The bank branch fields to be updated have to be specified in the input transaction. Those bank branch fields that are not specified in the input transaction will not be changed from their current values. The numeric bank branch ID can not be changed because it is written as part of the security data to bank mode locks.

Transaction information required:

- Bank Branch Name
- Customer ID (Optional) – The new value for this field
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the updated bank branch record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Bank Branch Name
- Bank Branch does not exist
- Customer does not exist
- Not authorized due to authorization role

Example 1 - Success

Input Transaction:

```
<TRANSACTION_UPDATE_BANK_BRANCH>
  <UpdateBankBranchRecord>
    <CustomerID>Eastern Bank</CustomerID>
    <BankBranchName>North East Bank Branch</BankBranchName>
  </UpdateBankBranchRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_BANK_BRANCH>
```

Output Transaction:

The output transaction has the original input transaction (TRANSACTION_UPDATE_BANK_BRANCH), a result record (indicating success) and the updated bank branch record with the updated Customer ID value.

```
<RESPONSE_UPDATE_BANK_BRANCH>
  <TRANSACTION_UPDATE_BANK_BRANCH>
    <UpdateBankBranchRecord>
      <CustomerID>Eastern Bank</CustomerID>
      <BankBranchName>North East Bank Branch</BankBranchName>
    </UpdateBankBranchRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_BANK_BRANCH>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Bank Branch North East Bank Branch has been updated successfully.
  </Description>
</ResultRecord>
  <BankBranchRecord>
    <BankBranchName>North East Bank Branch</BankBranchName>
    <BankBranchID>1235</BankBranchID>
    <CustomerID>Eastern Bank</CustomerID>
  </BankBranchRecord>
</RESPONSE_UPDATE_BANK_BRANCH>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_UPDATE_BANK_BRANCH>
  <UpdateBankBranchRecord>
    <CustomerID>SomeInvalidCustomer</CustomerID>
    <BankBranchName>North East Bank Branch</BankBranchName>
  </UpdateBankBranchRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_BANK_BRANCH>
```

Output Transaction:

The transaction fails because the Customer ID is invalid (empty).

```
<RESPONSE_UPDATE_BANK_BRANCH>
  <TRANSACTION_UPDATE_BANK_BRANCH>
    <UpdateBankBranchRecord>
      <CustomerID>SomeInvalidCustomer</CustomerID>
      <BankBranchName>North East Bank Branch</BankBranchName>
    </UpdateBankBranchRecord>
    <DispatcherID>CentranSS</DispatcherID>
```

```
</TRANSACTION_UPDATE_BANK_BRANCH>
<ResultRecord>
  <Result>Failure</Result>
  <ErrorCode>RC_ERR_CUSTOMER_NOT_FOUND</ErrorCode>
  <IfRetryValid>false</IfRetryValid>
  <Description>New customer SomeInvalidCustomer does not exist in the customer table.
</Description>
</ResultRecord>
</RESPONSE_UPDATE_BANK_BRANCH>
```

2.6.4 Bank Branch XML File Transactions - Delete Bank Branch

CenTran Programming Reference Manual

This transaction deletes a bank branch from the database. The bank branch must not have any bank mode locks or users assigned to it.

Transaction information required:

- Bank Branch Name
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid bank branch name
- Bank branch does not exist
- Bank branch is still in use
- Not authorized due to authorization role

Example 1 - Success

Input Transaction:

```
<TRANSACTION_DELETE_BANK_BRANCH>
  <BankBranchName>North East Bank Branch</BankBranchName>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_BANK_BRANCH>
```

Output Transaction:

```
<RESPONSE_DELETE_BANK_BRANCH>
  <TRANSACTION_DELETE_BANK_BRANCH>
    <BankBranchName>North East Bank Branch</BankBranchName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_BANK_BRANCH>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Bank Branch North East Bank Branch has been deleted successfully.
  </Description>
  </ResultRecord>
</RESPONSE_DELETE_BANK_BRANCH>
```

Example 2 - Failure because bank branch does not exist.

Input Transaction:

```
<TRANSACTION_DELETE_BANK_BRANCH>
  <BankBranchName>NoBankBranch</BankBranchName>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_BANK_BRANCH>
```

Output Transaction:

```
<RESPONSE_DELETE_BANK_BRANCH>
  <TRANSACTION_DELETE_BANK_BRANCH>
    <BankBranchName>NoBankBranch</BankBranchName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_BANK_BRANCH>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_BANK_BRANCH_NOT_FOUND</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to find bank branch NoBankBranch in the bank branch table.
  </Description>
  </ResultRecord>
</RESPONSE_DELETE_BANK_BRANCH>
```

Example 3 - Failure because bank branch is still in use.

Input Transaction:

```
<TRANSACTION_DELETE_BANK_BRANCH>
  <BankBranchName>North Bank Branch</BankBranchName>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_BANK_BRANCH>
```

Output Transaction:

```
<RESPONSE_DELETE_BANK_BRANCH>
  <TRANSACTION_DELETE_BANK_BRANCH>
    <BankBranchName>North Bank Branch</BankBranchName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_BANK_BRANCH>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FAILED_DELETE_BANK_BRANCH_STILL_IN_USE</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to delete the bank branch from the database bank branch table. The
bank branch is still in use by one or more locks or users.</Description>
  </ResultRecord>
</RESPONSE_DELETE_BANK_BRANCH>
```


2.6.5 Bank Branch XML File Transactions - Query Bank Branch Table

CenTran Programming Reference Manual

This transaction queries a bank branch table for a set of bank branch records. The query record in the input transaction file contains a set of bank branch fields to create a query from. The query record also contains a flag indicating if 'like' search or 'exact' search is to be used. The query transaction attempts to work in a similar fashion as Cencon's 'Find Bank Branches' form to search for bank branches to be displayed in a bank branch report.

Transaction information required:

- Bank Branch Name
- Bank Branch ID minimum value (0-9999 for Gen 1, 0-2 Billion for Gen 2)
- Bank Branch ID maximum value (0-9999 for Gen 1, 0-2 Billion for Gen 2)
- Customer ID
- Search Exact flag
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Note: If string fields such as Bank Branch Name or Customer ID are left blank, those fields are left out of the search query (CenTran does not search for bank branch records in which Bank Branch Name or Customer ID field is empty).

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the bank branch records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error – failed to open bank branch table

Example 1 - Success

Input Transaction:

```
<TRANSACTION_BANK_BRANCH_QUERY>
  <BankBranchQueryRecord>
    <BankBranchIDMaximum>2900</BankBranchIDMaximum>
    <BankBranchIDMinimum>2800</BankBranchIDMinimum>
  </BankBranchQueryRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_BANK_BRANCH_QUERY>
```

Output Transaction:

```
<RESPONSE_BANK_BRANCH_QUERY>
  <TRANSACTION_BANK_BRANCH_QUERY>
    <BankBranchQueryRecord>
      <BankBranchIDMaximum>2900</BankBranchIDMaximum>
      <BankBranchIDMinimum>2800</BankBranchIDMinimum>
    </BankBranchQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_BANK_BRANCH_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of bank branch records matching the given query: 4.</Description>
  </ResultRecord>
  <BankBranchRecord>
    <BankBranchName>Bank of the West (2804)</BankBranchName>
    <BankBranchID>2804</BankBranchID>
    <CustomerID>Bank of the West</CustomerID>
  </BankBranchRecord>
  <BankBranchRecord>
    <BankBranchName>Bank of the West (2813)</BankBranchName>
    <BankBranchID>2813</BankBranchID>
    <CustomerID>Bank of the West</CustomerID>
  </BankBranchRecord>
  <BankBranchRecord>
    <BankBranchName>Bank of the West (2857)</BankBranchName>
    <BankBranchID>2857</BankBranchID>
    <CustomerID>Bank of the West</CustomerID>
  </BankBranchRecord>
  <BankBranchRecord>
    <BankBranchName>Bank of the West (2858)</BankBranchName>
    <BankBranchID>2858</BankBranchID>
    <CustomerID>Bank of the West</CustomerID>
  </BankBranchRecord>
</RESPONSE_BANK_BRANCH_QUERY>
```


2.6.6 Bank Branch XML File Transactions - Query Bank Branch Table Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the bank branch table matching the given query condition. This transaction uses the same format as the Bank Branch Table Query transaction.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_BANK_BRANCH_QUERY_COUNT>
  <BankBranchQueryRecord>
    <BankBranchIDMaximum>2900</BankBranchIDMaximum>
    <BankBranchIDMinimum>2600</BankBranchIDMinimum>
  </BankBranchQueryRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_BANK_BRANCH_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_BANK_BRANCH_QUERY_COUNT>
  <TRANSACTION_BANK_BRANCH_QUERY_COUNT>
    <BankBranchQueryRecord>
      <BankBranchIDMaximum>2900</BankBranchIDMaximum>
      <BankBranchIDMinimum>2600</BankBranchIDMinimum>
    </BankBranchQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_BANK_BRANCH_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of bank branch records matching the given query: 7.</Description>
  </ResultRecord>
  <QueryCount>7</QueryCount>
</RESPONSE_BANK_BRANCH_QUERY_COUNT>
```

2.7.1 Activity Log XML File Transactions - Activity Log Table Query

CenTran Programming Reference Manual

This transaction queries an activity log table for a set of activity log records. The query record passed contains a set of activity log fields to create a query from. The record also contains a flag indicating if 'like' search or 'exact' search is to be used. The query transaction attempts to work in a similar fashion as Cencon's 'Find Activity Data' form to search for audit or activity log records to be displayed in the activity log report.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the activity log records are retrieved from the activity log table.

- Event Time Date range (Event Time Start and Event Time End)
- Lock Name
- Route Name
- User ID
- Lock Mode
- Customer ID
- Serial Number Range (Serial Number Start and Serial Number End)
- ATM Serial Number
- Region
- Search Exact Flag
- Dispatcher ID (Optional) – This is not part of the query record. If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Note: If string fields such as Lock Name or Customer ID are left blank, those fields are left out of the search query (CenTran does not search for activity log records having an empty Lock Name or Customer ID field).

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the activity log records (with selected fields) matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error - failed to open activity log table

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ACTIVITY_QUERY>
  <AuditQueryRecord>
    <!-- char string -->
    <LockName>VLK014</LockName>
    <!-- char string -->
    <LockMode>F</LockMode>
    <!-- char string -->
    <RouteName></RouteName>
    <!-- char string -->
    <UserID>fjrb1</UserID>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ATMSerialNumber>asdfasd</ATMSerialNumber>
    <!-- char string -->
    <Region>TestRegionD</Region>
    <!-- long -->
    <SerialNumberMinimum>530000</SerialNumberMinimum>
    <SerialNumberMaximum>540000</SerialNumberMaximum>
    <!-- date -->
    <EventDateStart>2004-12-24T00:00:00</EventDateStart>
    <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
    <!-- bool -->
    <IfSearchExact>true</IfSearchExact>
  </AuditQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ACTIVITY_QUERY>
```

Output Transaction:

The transaction succeeds and returns a record which happens to be a reassign call event on lock VLK014.

```
<RESPONSE_ACTIVITY_QUERY>
  <TRANSACTION_ACTIVITY_QUERY xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <AuditQueryRecord>
      <LockName>VLK014</LockName>
      <LockMode>F</LockMode>
      <RouteName></RouteName>
      <UserID>fjrb1</UserID>
      <CustomerID>ACustomer</CustomerID>
      <ATMSerialNumber>asdfasd</ATMSerialNumber>
      <Region>TestRegionD</Region>
      <SerialNumberMinimum>530000</SerialNumberMinimum>
      <SerialNumberMaximum>540000</SerialNumberMaximum>
```

```

        <EventDateStart>2004-12-24T00:00:00</EventDateStart>
        <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
        <IfSearchExact>true</IfSearchExact>
    </AuditQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ACTIVITY_QUERY>
<ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Audit record/s found satisfying the search condition.
    </Description>
</ResultRecord>
<AuditRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <EventType>ENV_REASSIGN_CALL</EventType>
    <EventResult>0</EventResult>
    <EventDate>2004-12-24T19:47:18.234Z</EventDate>
    <PreviousDate xsi:nil="true" />
    <LogonUserID>CentranSS</LogonUserID>
    <LogonUser2ID />
    <LogonUser3ID />
    <UserID>fjrb1</UserID>
    <User2ID />
    <LockName>VLK014</LockName>
    <RouteName />
    <LockMode>F</LockMode>
    <CustomerID>ACustomer</CustomerID>
    <ATMSerialNumber>asdfasd</ATMSerialNumber>
    <Region>TestRegionD</Region>
    <SerialNumber>532214</SerialNumber>
    <BankBranchName />
    <BankUserID>0</BankUserID>
    <BankBranchID>0</BankBranchID>
</AuditRecord>
</RESPONSE_ACTIVITY_QUERY>

```

2.7.2 Activity Log XML File Transactions - Activity Log Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the activity log table query matching the given query condition. This transaction uses the same format as the Activity Log Table Query transaction.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ACTIVITY_QUERY_COUNT>
  <AuditQueryRecord>
    <!-- char string -->
    <LockName>VLK014</LockName>
    <!-- char string -->
    <LockMode>F</LockMode>
    <!-- char string -->
    <RouteName></RouteName>
    <!-- char string -->
    <UserID>fjrb1</UserID>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ATMSerialNumber>asdfasd</ATMSerialNumber>
    <!-- char string -->
    <Region>TestRegionD</Region>
    <!-- long -->
    <SerialNumberMinimum>530000</SerialNumberMinimum>
    <SerialNumberMaximum>540000</SerialNumberMaximum>
    <!-- date -->
    <EventDateStart>2004-12-24T00:00:00</EventDateStart>
    <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
    <!-- bool -->
    <IfSearchExact>true</IfSearchExact>
  </AuditQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ACTIVITY_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_ACTIVITY_QUERY_COUNT>
  <TRANSACTION_ACTIVITY_QUERY_COUNT xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <AuditQueryRecord>
      <LockName>VLK014</LockName>
      <LockMode>F</LockMode>
      <RouteName></RouteName>
      <UserID>fjrb1</UserID>
      <CustomerID>ACustomer</CustomerID>
      <ATMSerialNumber>asdfasd</ATMSerialNumber>
      <Region>TestRegionD</Region>
      <SerialNumberMinimum>530000</SerialNumberMinimum>
      <SerialNumberMaximum>540000</SerialNumberMaximum>
      <EventDateStart>2004-12-24T00:00:00</EventDateStart>
      <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
      <IfSearchExact>true</IfSearchExact>
    </AuditQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ACTIVITY_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC OK</ErrorCode>
    <Description>Number of audit record/s found satisfying the search condition: 1.
  </Description>
  </ResultRecord>
  <QueryCount>1</QueryCount>
</RESPONSE_ACTIVITY_QUERY_COUNT>
```

2.7.3 Activity Log XML File Transactions - Activity Log Archive Table Query

CenTran Programming Reference Manual

This transaction operates in the same manner as the Activity Log Table Query, but is applied against the Activity Archive Log Table.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ACTIVITY_ARCHIVE_QUERY>
  <AuditQueryRecord>
    <!-- char string -->
    <LockName>VLK</LockName>
    <!-- long -->
    <SerialNumberMinimum>530000</SerialNumberMinimum>
    <SerialNumberMaximum>540000</SerialNumberMaximum>
    <!-- date -->
    <EventDateStart>2004-12-24T00:00:00</EventDateStart>
    <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
    <!-- bool -->
    <IfSearchExact>0</IfSearchExact>
  </AuditQueryRecord>
  <!-- char string -->
  <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_ACTIVITY_ARCHIVE_QUERY>
```

Output Transaction:

The transaction returns all activity archive records matching the given search fields and also an additional search field – that of region being 'TestRegionD' because the dispatcher belongs to that local region.

```
<RESPONSE_ACTIVITY_ARCHIVE_QUERY>
  <TRANSACTION_ACTIVITY_ARCHIVE_QUERY xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <AuditQueryRecord>
      <LockName>VLK</LockName>
      <SerialNumberMinimum>530000</SerialNumberMinimum>
      <SerialNumberMaximum>540000</SerialNumberMaximum>
      <EventDateStart>2004-12-24T00:00:00</EventDateStart>
      <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
      <IfSearchExact>0</IfSearchExact>
    </AuditQueryRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_ACTIVITY_ARCHIVE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Audit archive record/s found satisfying the search condition.
    </Description>
  </ResultRecord>
  <AuditRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <EventType>ENV_REASSIGN_CALL</EventType>
    <EventResult>0</EventResult>
    <EventDate>2004-12-24T19:47:18.234Z</EventDate>
    <PreviousDate xsi:nil="true" />
    <LogonUser1ID>CentranSS</LogonUser1ID>
    <LogonUser2ID />
    <LogonUser3ID />
    <User1ID>fjrb1</User1ID>
    <User2ID />
    <LockName>VLK014</LockName>
    <RouteName />
    <LockMode>F</LockMode>
    <CustomerID>ACustomer</CustomerID>
    <ATMSerialNumber>asdfasd</ATMSerialNumber>
    <Region>TestRegionD</Region>
    <SerialNumber>532214</SerialNumber>
    <BankBranchName />
    <BankUserID>0</BankUserID>
    <BankBranchID>0</BankBranchID>
  </AuditRecord>
  <AuditRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <EventType>ENV_REASSIGN_CALL</EventType>
    <EventResult>0</EventResult>
    <EventDate>2004-12-24T19:47:18.456Z</EventDate>
    <PreviousDate xsi:nil="true" />
    <LogonUser1ID>CentranSS</LogonUser1ID>
    <LogonUser2ID />
    <LogonUser3ID />
    <User1ID>rzjack</User1ID>
    <User2ID>rzjill</User2ID>
    <LockName>VLK016</LockName>
    <RouteName>TestRte4</RouteName>
    <LockMode>R</LockMode>
    <CustomerID />
    <ATMSerialNumber />
    <Region>TestRegionD</Region>
    <SerialNumber>532016</SerialNumber>
    <BankBranchName />
    <BankUserID>0</BankUserID>
    <BankBranchID>0</BankBranchID>
  </AuditRecord>
</RESPONSE_ACTIVITY_ARCHIVE_QUERY>
```


2.7.4 Activity Log XML File Transactions - Activity Log Archive Table Query Record Count

CenTran Programming Reference Manual

This transaction operates in the same manner as the Activity Log Table Query Record Count, but is applied against the Activity Archive Log Table.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ACTIVITY_ARCHIVE_QUERY_COUNT>
  <AuditQueryRecord>
    <!-- char string -->
    <LockName>VLK</LockName>
    <!-- long -->
    <SerialNumberMinimum>530000</SerialNumberMinimum>
    <SerialNumberMaximum>540000</SerialNumberMaximum>
    <!-- date -->
    <EventDateStart>2004-12-24T00:00:00</EventDateStart>
    <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
    <!-- bool -->
    <IfSearchExact>0</IfSearchExact>
  </AuditQueryRecord>
  <!-- char string -->
  <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_ACTIVITY_ARCHIVE_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_ACTIVITY_ARCHIVE_QUERY_COUNT>
  <TRANSACTION_ACTIVITY_ARCHIVE_QUERY_COUNT xmlns="http://www.kaba-
mas.com/CenTranTransac.xsd">
    <AuditQueryRecord>
      <LockName>VLK</LockName>
      <SerialNumberMinimum>530000</SerialNumberMinimum>
      <SerialNumberMaximum>540000</SerialNumberMaximum>
      <EventDateStart>2004-12-24T00:00:00</EventDateStart>
      <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
      <IfSearchExact>0</IfSearchExact>
    </AuditQueryRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_ACTIVITY_ARCHIVE_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of audit archive record/s found satisfying the search condition: 2.
    </Description>
  </ResultRecord>
  <QueryCount>2</QueryCount>
</RESPONSE_ACTIVITY_ARCHIVE_QUERY_COUNT>
```

2.8.1 Authorization XML File Transactions - Authorization Roles Table Query

CenTran Programming Reference Manual

This transaction queries the Authorization Roles table for a set of Authorization Role records. The input transaction file contains a query record which in turn contains a set of authorization role fields to create a query from. The authorization role query does not have a 'search like' option.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the authorization role records in the role table are retrieved.

- Authorization Role
- Description
- Enabled flag
- If Exclude Special Roles - This excludes roles such as FLM, Route, and Bank that are placeholders for lock key roles.
- Dispatcher ID - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the role records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error - failed to open authorization role table

Example 1 - Success

Input Transaction:

```
<TRANSACTION_AUTHORIZATION_ROLE_QUERY>
  <AuthorizationRoleQueryRecord>
    <IfAuthorizationRoleEnabled>true</IfAuthorizationRoleEnabled>
    <AuthorizationRole>Dispatcher</AuthorizationRole>
  </AuthorizationRoleQueryRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_AUTHORIZATION_ROLE_QUERY>
```

Output Transaction:

The transaction succeeds in finding and retrieving an 'Enabled' authorization role named 'Dispatcher'.

```
<RESPONSE_AUTHORIZATION_ROLE_QUERY>
  <TRANSACTION_AUTHORIZATION_ROLE_QUERY>
    <AuthorizationRoleQueryRecord>
      <IfAuthorizationRoleEnabled>true</IfAuthorizationRoleEnabled>
      <AuthorizationRole>Dispatcher</AuthorizationRole>
    </AuthorizationRoleQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_AUTHORIZATION_ROLE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Number of authorization role records matching the given query: 1.
  </Description>
</ResultRecord>
  <AuthorizationRoleRecord>
    <AuthorizationRole>Dispatcher</AuthorizationRole>
    <AuthorizationRoleDescription>Used for normal dispatch and close operations.
  </AuthorizationRoleDescription>
    <IfAuthorizationRoleEnabled>true</IfAuthorizationRoleEnabled>
  </AuthorizationRoleRecord>
</RESPONSE_AUTHORIZATION_ROLE_QUERY>
```

2.8.2 Authorization XML File Transactions - Authorization Roles Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the authorization roles table matching the given query condition. This transaction uses the same format as the Authorization Roles Table Query transaction.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_AUTHORIZATION_ROLE_QUERY_COUNT>
  <AuthorizationRoleQueryRecord>
    <IfAuthorizationRoleEnabled>true</IfAuthorizationRoleEnabled>
    <AuthorizationRole>Dispatcher</AuthorizationRole>
  </AuthorizationRoleQueryRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_AUTHORIZATION_ROLE_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_AUTHORIZATION_ROLE_QUERY_COUNT>
  <TRANSACTION_AUTHORIZATION_ROLE_QUERY_COUNT>
    <AuthorizationRoleQueryRecord>
      <IfAuthorizationRoleEnabled>true</IfAuthorizationRoleEnabled>
      <AuthorizationRole>Dispatcher</AuthorizationRole>
    </AuthorizationRoleQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_AUTHORIZATION_ROLE_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of authorization role records matching the given query: 1.
  </Description>
  </ResultRecord>
  <QueryCount>1</QueryCount>
</RESPONSE_AUTHORIZATION_ROLE_QUERY_COUNT>
```

2.8.3 Authorization XML File Transactions - Authorization Operation Names Table Query

CenTran Programming Reference Manual

This transaction queries the authorization operation names table for a set of authorization operation name records. The query record passed contains a set of operation names fields to create a query from. This query does not have a 'search like' option.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the authorization operation names records in the operation names table are retrieved.

- Authorization Operation Name
- Authorization Operation Category
- Dispatcher ID - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the operation names records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error - failed to open authorization operation names table

Example 1 - Success

Input Transaction:

```
<TRANSACTION_AUTHORIZATION_OPERATION_QUERY>
  <AuthorizationOperationQueryRecord>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationQueryRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_AUTHORIZATION_OPERATION_QUERY>
```

Output Transaction:

The transaction succeeds and all Customer operations are retrieved.

```
<RESPONSE_AUTHORIZATION_OPERATION_QUERY>
  <TRANSACTION_AUTHORIZATION_OPERATION_QUERY>
    <AuthorizationOperationQueryRecord>
      <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
    </AuthorizationOperationQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_AUTHORIZATION_OPERATION_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of authorization operation name records matching the given query:
6.</Description>
  </ResultRecord>
  <AuthorizationOperationRecord>
    <AuthorizationOperationName>Add Customer</AuthorizationOperationName>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationRecord>
  <AuthorizationOperationRecord>
    <AuthorizationOperationName>Customer Table Query</AuthorizationOperationName>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationRecord>
  <AuthorizationOperationRecord>
    <AuthorizationOperationName>Delete Customer</AuthorizationOperationName>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationRecord>
  <AuthorizationOperationRecord>
    <AuthorizationOperationName>Read Customer Data</AuthorizationOperationName>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationRecord>
  <AuthorizationOperationRecord>
    <AuthorizationOperationName>Rename Customer</AuthorizationOperationName>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationRecord>
  <AuthorizationOperationRecord>
    <AuthorizationOperationName>Update Customer</AuthorizationOperationName>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationRecord>
</RESPONSE_AUTHORIZATION_OPERATION_QUERY>
```


2.8.4 Authorization XML File Transactions - Authorization Operation Names Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the operation names table matching the given query condition. This transaction uses the same format as the Authorization Operation Names Table Query transaction.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_AUTHORIZATION_OPERATION_QUERY_COUNT>
  <AuthorizationOperationQueryRecord>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationQueryRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_AUTHORIZATION_OPERATION_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_AUTHORIZATION_OPERATION_QUERY_COUNT>
  <TRANSACTION_AUTHORIZATION_OPERATION_QUERY_COUNT>
    <AuthorizationOperationQueryRecord>
      <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
    </AuthorizationOperationQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_AUTHORIZATION_OPERATION_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of authorization operation name records matching the given query:
6.</Description>
  </ResultRecord>
  <QueryCount>6</QueryCount>
</RESPONSE_AUTHORIZATION_OPERATION_QUERY_COUNT>
```

2.8.5 Authorization XML File Transactions - Authorization Definition Table Query

CenTran Programming Reference Manual

This transaction queries the authorization definition table for a set of authorization definition records. The query record passed contains a set of definition fields to create a query from. The authorization definition query does not have a 'search like' option.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the authorization definition records in the definition table are retrieved.

- Authority Role
- Operation Name
- Operation Type
- Operation Parameter 1
- Dispatcher ID - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the authorization definition records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error - failed to open authorization definition table

Example 1 - Success

Input Transaction:

```
<TRANSACTION_AUTHORIZATION_DEFINITION_QUERY>
  <AuthorizationDefinitionQueryRecord>
    <AuthorizationOperationType>FLM</AuthorizationOperationType>
    <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
  </AuthorizationDefinitionQueryRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_AUTHORIZATION_DEFINITION_QUERY>
```

Output Transaction:

The transaction successfully retrieves all the roles authorized to activate a lock in FLM mode.

```
<RESPONSE_AUTHORIZATION_DEFINITION_QUERY>
  <TRANSACTION_AUTHORIZATION_DEFINITION_QUERY>
    <AuthorizationDefinitionQueryRecord>
      <AuthorizationOperationType>FLM</AuthorizationOperationType>
      <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
    </AuthorizationDefinitionQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_AUTHORIZATION_DEFINITION_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of authorization definition records matching the given query: 3.
  </Description>
  </ResultRecord>
  <AuthorizationDefinitionRecord>
    <AuthorizationRole>Activate Only</AuthorizationRole>
    <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
    <AuthorizationOperationType>FLM</AuthorizationOperationType>
    <AuthorizationOperationParameter1/>
  </AuthorizationDefinitionRecord>
  <AuthorizationDefinitionRecord>
    <AuthorizationRole>F/R Mode Basic Functions</AuthorizationRole>
    <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
    <AuthorizationOperationType>FLM</AuthorizationOperationType>
    <AuthorizationOperationParameter1/>
  </AuthorizationDefinitionRecord>
  <AuthorizationDefinitionRecord>
    <AuthorizationRole>Supervisor</AuthorizationRole>
    <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
    <AuthorizationOperationType>FLM</AuthorizationOperationType>
    <AuthorizationOperationParameter1/>
  </AuthorizationDefinitionRecord>
</RESPONSE_AUTHORIZATION_DEFINITION_QUERY>
```


2.8.6 Authorization XML File Transactions - Authorization Definition Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the authorization definition table matching the given query condition. This transaction uses the same format as the Authorization Definition Table Query transaction.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_AUTHORIZATION_DEFINITION_QUERY_COUNT>
  <AuthorizationDefinitionQueryRecord>
    <AuthorizationOperationType>FLM</AuthorizationOperationType>
    <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
  </AuthorizationDefinitionQueryRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_AUTHORIZATION_DEFINITION_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_AUTHORIZATION_DEFINITION_QUERY_COUNT>
  <TRANSACTION_AUTHORIZATION_DEFINITION_QUERY_COUNT>
    <AuthorizationDefinitionQueryRecord>
      <AuthorizationOperationType>FLM</AuthorizationOperationType>
      <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
    </AuthorizationDefinitionQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_AUTHORIZATION_DEFINITION_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of audit records matching the given query: 3.</Description>
  </ResultRecord>
  <QueryCount>3</QueryCount>
</RESPONSE_AUTHORIZATION_DEFINITION_QUERY_COUNT>
```

2.9.1 Region XML File Transactions - Add Region

CenTran Programming Reference Manual

This transaction adds a region to the Cencon database region table. The region name must be a unique value.

Both locks and users can be assigned to a region. If a region has assigned locks and users, it can't be deleted.

If region control is set to be active in the Cencon system, then regions are used to restrict what data can be seen by those dispatch users without authorization to view information outside of their assigned region. Additionally, lock users can only be dispatched or assigned to locks within the same assigned region.

The Cencon system has two aspects of authorization. The first is the concept of authorization roles, which restricts what operations or transactions a user can do. The second is the concept of regions, which restricts what set of information a user has access to or what locks a lock user can be dispatched / assigned to. Region control can be set on or off, depending on your operational requirements.

There are two basic categories of users in the Cencon system. The first basic category is the lock users (FLM / Route / Bank) who are dispatched to open locks, or are assigned to be able to open a lock in bank mode. The second basic category is the Cencon / CenTran logon users, which can log onto either Cencon or access CenTran to do management and lock dispatch operations.

Region control affects the category of lock users by restricting what locks the users can be dispatched or assigned to.

Region control affects the category of Cencon / CenTran logon users by restricting what locks and users the log on user can view in Cencon or do operations to.

Individual regions have a flag associated with it, called region type. If the region type is 0, or regional, then the region affects both lock users and Cencon / CenTran logon users. If the region type is 1, or global, then the region affects lock users being dispatched / assigned to locks in the same region, but does not affect Cencon / CenTran logon users being able to view or manage information.

Having a region that is set as global, with a region type of 1, allows you to have a region assigned to Cencon / CenTran log on users at your corporate headquarters that are not restricted by region control. The region control affects lock users and locks in the same way, and affects Cencon / CenTran log on users in other regions in the same way, but your Cencon / CenTran log on users assigned to a region set as global are not affected.

Transaction information required:

- Region Name (Unique 64 character identifier)
- Region Type (1 is global, 0 is regional) (Optional, defaults to 0, regional)
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Region Name
- Region already exists
- Not authorized due to authorization role

Example 1 - Success

Input Transaction:

```
<TRANSACTION_ADD_REGION>
  <RegionRecord>
    <RegionName>Frankfort</RegionName>
  </RegionRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_REGION>
```

Output Transaction:

The region is added successfully to the customer table in the database. The output transaction has the original input transaction (TRANSACTION_ADD_REGION) and a result record (indicating success).

```
<RESPONSE_ADD_REGION>
  <TRANSACTION_ADD_REGION>
    <RegionRecord>
      <RegionName>Frankfort</RegionName>
    </RegionRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_REGION>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Region Frankfort successfully added to the database.</Description>
  </ResultRecord>
</RESPONSE_ADD_REGION>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_ADD_REGION>
  <RegionRecord>
```

```
<RegionName>Kentucky</RegionName>
</RegionRecord>
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_REGION>
```

Output Transaction:

In this example, the region Kentucky already exists in the region table and therefore the transaction fails.

```
<RESPONSE_ADD_REGION>
  <TRANSACTION_ADD_REGION>
    <RegionRecord>
      <RegionName>Kentucky</RegionName>
    </RegionRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_REGION>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_ADD_REGION_ALREADY_EXISTS</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Region Kentucky already exists.</Description>
  </ResultRecord>
</RESPONSE_ADD_REGION>
```

2.9.2 Region XML File Transactions - Read Region

CenTran Programming Reference Manual

This transaction reads a region from the database.

Transaction information required:

- Region Name
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the customer record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Region does not exist
- Not authorized due to authorization role

Example 1 - Success

Input Transaction:

```
<TRANSACTION_READ_REGION>
  <RegionName>Kentucky</RegionName>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_REGION>
```

Output Transaction:

```
<RESPONSE_READ_REGION>
  <TRANSACTION_READ_REGION>
    <RegionName>Kentucky</RegionName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_REGION>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Success</Description>
  </ResultRecord>
  <RegionRecord>
    <RegionName>KENTUCKY</RegionName>
    <RegionType>0</RegionType>
  </RegionRecord>
</RESPONSE_READ_REGION>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_READ_REGION>
  <RegionName>Kentucky</RegionName>
  <DispatcherID>Auth test user</DispatcherID>
</TRANSACTION_READ_REGION>
```

Output Transaction:

Here, dispatcher **Auth test user** is not authorized to read region data.

```
<RESPONSE_READ_REGION>
  <TRANSACTION_READ_REGION>
    <RegionName>Kentucky</RegionName>
    <DispatcherID>Auth test user</DispatcherID>
  </TRANSACTION_READ_REGION>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_NOT_AUTHORIZED_TO_DO_OPERATION</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Dispatcher not authorized to perform this operation: Read Region Data.
  </ResultRecord>
</RESPONSE_READ_REGION>
```


2.9.3 Region XML File Transactions - Update Region

CenTran Programming Reference Manual

This transaction updates data for an existing region in the database. The region fields to be updated have to be specified in the input transaction. Those region fields that are not specified in the input transaction will not be changed from their current values. The only region field that can be updated is the region type flag for global versus regional.

Transaction information required:

- Region Name
- Region Type (1 is global, 0 is regional) (Optional)
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the updated region record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Region Name
- Region does not exist
- Not authorized due to authorization role

Example 1 - Success

Input Transaction:

```
<TRANSACTION_UPDATE_REGION>
  <UpdateRegionRecord>
    <RegionName>Kentucky</RegionName>
    <RegionType>1</RegionType>
  </UpdateRegionRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_REGION>
```

Output Transaction:

The output transaction has the original input transaction (TRANSACTION_UPDATE_REGION), a result record (indicating success) and the updated region record with new region type value.

```
<RESPONSE_UPDATE_REGION>
  <TRANSACTION_UPDATE_REGION>
    <UpdateRegionRecord>
      <RegionName>Kentucky</RegionName>
      <RegionType>1</RegionType>
    </UpdateRegionRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_REGION>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Region KENTUCKY successfully updated in the database.</Description>
  </ResultRecord>
</RESPONSE_UPDATE_REGION>
```

Example 2 - Failure

Input Transaction:

```
<TRANSACTION_UPDATE_REGION>
  <UpdateRegionRecord>
    <RegionName>NoRegion</RegionName>
    <RegionType>1</RegionType>
  </UpdateRegionRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_UPDATE_REGION>
```

Output Transaction:

The transaction fails because the region NoRegion does not exist.

```
<RESPONSE_UPDATE_REGION>
  <TRANSACTION_UPDATE_REGION>
    <UpdateRegionRecord>
      <RegionName>NoRegion</RegionName>
      <RegionType>1</RegionType>
    </UpdateRegionRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_REGION>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_REGION_NOT_FOUND</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to find region NoRegion in the region table.</Description>
  </ResultRecord>
</RESPONSE_UPDATE_REGION>
```


2.9.4 Region XML File Transactions - Delete Region

CenTran Programming Reference Manual

This transaction deletes a region from the database.

Transaction information required:

- Region Name
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Region Name
- Region does not exist
- Not authorized due to authorization role

Example 1 - Failure

Input Transaction:

```
<TRANSACTION_DELETE_REGION>
  <RegionName>NoRegion</RegionName>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_REGION>
```

Output Transaction:

```
<RESPONSE_DELETE_REGION>
  <TRANSACTION_DELETE_REGION>
    <RegionName>NoRegion</RegionName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_REGION>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_REGION_NOT_FOUND</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to find region NoRegion in the region table.</Description>
  </ResultRecord>
</RESPONSE_DELETE_REGION>
```

Example 2 - Success

Input Transaction:

```
<TRANSACTION_DELETE_REGION>
  <RegionName>North East Bank Region</RegionName>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_REGION>
```

Output Transaction:

```
<RESPONSE_DELETE_REGION>
  <TRANSACTION_DELETE_REGION>
    <RegionName>North East Bank Region</RegionName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_REGION>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Region North East Bank Region has been deleted successfully.</Description>
  </ResultRecord>
</RESPONSE_DELETE_REGION>
```

2.9.5 Region XML File Transactions - Region Table Query

CenTran Programming Reference Manual

This transaction queries the region table for a set of region records. The query record passed contains a set of region fields to create a query from. The region query does not have a 'like search' option.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the region records are retrieved from the region table.

- Region Name
- Region Type
- Dispatcher ID: If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the region records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error - failed to open region table

Example 1 - Success

Input Transaction:

```
<TRANSACTION_REGION_QUERY>
  <RegionQueryRecord>
    <!-- int -->
    <RegionType>0</RegionType>
  </RegionQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_REGION_QUERY>
```

Output Transaction:

The transaction retrieves all regions of type global (as opposed to local).

```
<RESPONSE_REGION_QUERY>
  <TRANSACTION_REGION_QUERY xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RegionQueryRecord>
      <RegionType>0</RegionType>
    </RegionQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_REGION_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Region record/s found satisfying the search condition.
    </Description>
  </ResultRecord>
  <RegionRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <RegionName>Loomis</RegionName>
    <RegionType>0</RegionType>
  </RegionRecord>
  <RegionRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <RegionName>TestRegionA</RegionName>
    <RegionType>0</RegionType>
  </RegionRecord>
  <RegionRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <RegionName>TestRegionB</RegionName>
    <RegionType>0</RegionType>
  </RegionRecord>
</RESPONSE_REGION_QUERY>
```

2.9.6 Region XML File Transactions - Region Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the region table query matching the given query condition. This transaction uses the same format as the Region Table Query transaction.

Example 1 - Success

Input Transaction:

```
<TRANSACTION_REGION_QUERY_COUNT>
  <RegionQueryRecord>
    <!-- int -->
    <RegionType>0</RegionType>
  </RegionQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_REGION_QUERY_COUNT >
```

Output Transaction:

```
<RESPONSE_REGION_QUERY_COUNT>
  <TRANSACTION_REGION_QUERY_COUNT xmlns="http://www.kaba-mas.com/CenTranTransac.xsd">
    <RegionQueryRecord>
      <RegionType>0</RegionType>
    </RegionQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_REGION_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of region record/s found satisfying the search condition: 3.
  </Description>
  </ResultRecord>
  <QueryCount>3</QueryCount>
</RESPONSE_REGION_QUERY_COUNT>
```

2.10.1 Remote Lock Management XML File Transactions - Query Lock Status Across Network

CenTran Programming Reference Manual

This transaction is used to query the hardware and operational status of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- Lock IP Address and Port - Specifies the lock to connect to from Centran to read the lock status from.
- Lock Communications ID - Specifies an alternate identification of a lock to connect to from Centran to read the lock status. This is to support alternate methods of handling remote communications with locks for various network topologies.
- Lock Communications Method - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success
- Lock operational status record
- Lock hardware status record
- Up to three records with lock mode status record and matching lock record data from the Cencon database, for each mode of the lock you have security access to in your Cencon database.

Failure:

- Result record indicating failure

Example

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_STATUS>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_STATUS>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_STATUS>
  <TRANSACTION_LOCK_REMOTE_STATUS>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_STATUS>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock status queried from lock successfully.</Description>
  </ResultRecord>
  <LockRemoteStatusRecord>
    <ProductFamily>2</ProductFamily>
    <ProductCode>2</ProductCode>
    <MajorVersion>2</MajorVersion>
    <MinorVersion>0</MinorVersion>
    <BuildVersion>824</BuildVersion>
    <SerialNumber>001000107</SerialNumber>
    <IfDuressOpenInProgress>false</IfDuressOpenInProgress>
    <IfDelayedOpenInProgress>false</IfDelayedOpenInProgress>
    <IfBoltRetracted>false</IfBoltRetracted>
    <IfShelvedOpenInProgress>false</IfShelvedOpenInProgress>
    <IfLockOutInProgress>false</IfLockOutInProgress>
    <IfBoltExtendedDoorOpen>false</IfBoltExtendedDoorOpen>
    <IfRemoteDisable>false</IfRemoteDisable>
    <LockFLMModeActivationStatus>ActivateSingleUser</LockFLMModeActivationStatus>
    <IfLockFLMModeActive>true</IfLockFLMModeActive>
    <LockRouteModeActivationStatus>ActivateSingleUser</LockRouteModeActivationStatus>
    <IfLockRouteModeActive>true</IfLockRouteModeActive>
    <LockBankModeActivationStatus>ActivateSingleUser</LockBankModeActivationStatus>
    <IfLockBankModeActive>true</IfLockBankModeActive>
    <LockOpeningOdometer>104</LockOpeningOdometer>
    <IfAuditStatusWrapped>false</IfAuditStatusWrapped>
    <AuditEventCount>409</AuditEventCount>
    <ListLockRemoteStatusErrorHistoryRecord>
      <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
        <LockErrorMode>TM Key Error</LockErrorMode>
        <LockErrorDateTime>2017-01-11T14:02:10Z</LockErrorDateTime>
      </LockRemoteStatusErrorHistoryRecord>
    </ListLockRemoteStatusErrorHistoryRecord>
```

```

        <LockErrorTransaction>Reading Housekeeping Record</LockErrorTransaction>
        <LockErrorMode>TM Key Error</LockErrorMode>
        <LockErrorDateTime>2017-01-10T21:02:10Z</LockErrorDateTime>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
        <LockErrorMode>TM Key Error</LockErrorMode>
        <LockErrorDateTime>2017-01-10T11:10:10Z</LockErrorDateTime>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>iButton Activate DST record read
error</LockErrorTransaction>
        <LockErrorMode>TM Key Error</LockErrorMode>
        <LockErrorDateTime>2017-01-10T10:19:56Z</LockErrorDateTime>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>Reading Init/Shelve Record 1</LockErrorTransaction>
        <LockErrorMode>TM Key Error</LockErrorMode>
        <LockErrorDateTime>2017-01-10T10:08:31Z</LockErrorDateTime>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>iButton Activate DST record read
error</LockErrorTransaction>
        <LockErrorMode>TM Key Error</LockErrorMode>
        <LockErrorDateTime>2017-01-09T14:02:10Z</LockErrorDateTime>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>Key-type mismatch Error</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
        <LockErrorDateTime>2017-01-05T18:08:34Z</LockErrorDateTime>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
        <LockErrorDateTime>2016-12-07T21:48:43Z</LockErrorDateTime>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
        <LockErrorDateTime>2016-11-27T11:50:19Z</LockErrorDateTime>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
        <LockErrorDateTime>2016-11-20T19:52:08Z</LockErrorDateTime>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>Last Audit record not an 'Open'
Audit</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
        <LockErrorDateTime>2016-11-10T15:12:18Z</LockErrorDateTime>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
        <LockErrorDateTime>2016-10-11T14:02:10Z</LockErrorDateTime>
    </LockRemoteStatusErrorHistoryRecord>
</ListLockRemoteStatusErrorHistoryRecord>
<AuditEventOdometer>0</AuditEventOdometer>
<IfDoorSensorConnectedOnOpen>invalid</IfDoorSensorConnectedOnOpen>
<IfBoltWorksSensorConnectedOnOpen>invalid</IfBoltWorksSensorConnectedOnOpen>
<IfRemoteAdministrationEnabled>invalid</IfRemoteAdministrationEnabled>
</LockRemoteStatusRecord>
<LockRemoteHardwareStatusRecord>
    <LockKeyReaderStatus>NoKeyPresent</LockKeyReaderStatus>
    <LockKeyBoardStatus>KeyBoardPresent_NoKeysHeld</LockKeyBoardStatus>
    <LastKeyPressed>0</LastKeyPressed>
    <LockDisplayStatus>DisplaySuccessfullyCleared</LockDisplayStatus>
    <LockCamPositionSensorStatus>CamSwitchIsOpen</LockCamPositionSensorStatus>
    <SuperCapVoltage>5.8</SuperCapVoltage>
    <ClockBatteryVoltage>3.076</ClockBatteryVoltage>
    <LockDoorSensorStatus>DoorSensorNotConnected</LockDoorSensorStatus>
    <LockDisableInputStatus>LockEnabled</LockDisableInputStatus>
    <LockPowerSupplyStatus>PowerSupplyGood</LockPowerSupplyStatus>
    <LockSolenoidKickerCapStatus>KickerCapIsDischarged</LockSolenoidKickerCapStatus>
    <LockChangeKeyStatus>ChangeKeyIsNotPresent</LockChangeKeyStatus>
    <LockGPIO1Status>LineHigh</LockGPIO1Status>
    <LockGPIO2Status>LineHigh</LockGPIO2Status>
    <LockOnboardMemoryStatus>MemoryResponding</LockOnboardMemoryStatus>
    <LockOnboardClockStatus>ClockRespondingRunning</LockOnboardClockStatus>

<LockOnboardClockInterruptLineStatus>NoClockInterrupt</LockOnboardClockInterruptLineStatus>
    <LockOnboardClockDateTime>2012-08-28T13:56:50Z</LockOnboardClockDateTime>
    <LockOnboardClockDateTimeRead>2012-08-
28T13:56:34.4518948Z</LockOnboardClockDateTimeRead>
    <Temperature>23</Temperature>
    <VCCSystemVoltage>3.3</VCCSystemVoltage>
    <MemoryFormatVersion>0</MemoryFormatVersion>
    <LockControlCardStatus>invalid</LockControlCardStatus>
    <LockBreakOutBoxStatus>invalid</LockBreakOutBoxStatus>
    <LockBoltRetractedSwitchStatus>invalid</LockBoltRetractedSwitchStatus>
    <LockBoltExtendedSwitchStatus>invalid</LockBoltExtendedSwitchStatus>
    <LockBoltWorksExtendedSensorStatus>invalid</LockBoltWorksExtendedSensorStatus>
    <LockAlternateChangeKeyStatus>invalid</LockAlternateChangeKeyStatus>
    <LockAuxiliarySerialIO_Num0_Status>invalid</LockAuxiliarySerialIO_Num0_Status>
</LockRemoteHardwareStatusRecord>

```

```

<LockRemoteModeStatusAndDatabaseRecord>
  <LockRemoteModeStatusRecord>
    <LockModeStatus>Closed</LockModeStatus>
    <LockModeOpeningOdometer>6</LockModeOpeningOdometer>
    <LockCurrentUserCount>0</LockCurrentUserCount>
    <LockMaximumUserCount>0</LockMaximumUserCount>
    <TimeDelayBeforeOpenMinutes>0</TimeDelayBeforeOpenMinutes>
    <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
    <UnmodifiedOpeningCloseSeal>0686</UnmodifiedOpeningCloseSeal>
    <OpeningFirstUserID/>
    <OpeningFirstUserKeyInformation>
      <CanType>04</CanType>
      <KeyID>00000046107A</KeyID>
    </OpeningFirstUserKeyInformation>
    <OpeningFirstUserTimestamp>2012-05-23T17:50:14Z</OpeningFirstUserTimestamp>
    <OpeningSecondUserID/>
    <OpeningSecondUserKeyInformation/>
    <OpeningSecondUserTimestamp/>
    <IfDuressComboUsedOnOpen>false</IfDuressComboUsedOnOpen>
    <IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
    <ClosingUserID/>
    <ClosingUserKeyInformation>
      <CanType>04</CanType>
      <KeyID>00000046107A</KeyID>
    </ClosingUserKeyInformation>
    <ClosingUserTimestamp>2012-05-23T17:51:17Z</ClosingUserTimestamp>
    <ModifiedClosingCloseSeal>0686</ModifiedClosingCloseSeal>
    <LockModeClosingOdometer>6</LockModeClosingOdometer>
  </LockRemoteModeStatusRecord>
</LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-01-23T15:53:55.31Z</StartDate>
  <LastUsedDate>2012-05-23T17:51:24.93Z</LastUsedDate>
  <CustomerNumber>928503</CustomerNumber>
  <LockMode>F</LockMode>
  <IfDualMode>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
  <AuditCount>6</AuditCount>
  <IfLockOpen>false</IfLockOpen>
  <IfForcedClosed>false</IfForcedClosed>
  <IfRoute1Issued>false</IfRoute1Issued>
  <IfRoute2Issued>false</IfRoute2Issued>
  <IfRoute3Issued>false</IfRoute3Issued>
  <IfNoAlarm>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
  <Seal>5806</Seal>
  <PreviousSeal>37898</PreviousSeal>
  <RouteSeal1>5806</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>37898</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>862072</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>545776</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName>AA001</GroupName>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1>123-4567-8910</Description1>
  <Description2>2013-10-17</Description2>
  <Description3>#34</Description3>
  <Description4>Joe Bob Jr.</Description4>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1>Cylinder</UserDefined1>
  <UserDefined2>Joe Bob Sr.</UserDefined2>
  <UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
  <UserDefined4>Jane Bob</UserDefined4>
  <Region>KENTUCKY</Region>
  <IfLastRoute1Issued>false</IfLastRoute1Issued>
  <IfLastRoute2Issued>false</IfLastRoute2Issued>
  <IfLastRoute3Issued>false</IfLastRoute3Issued>
  <User1ID1>F3</User1ID1>
  <User1ID2/>
  <User1ID3/>
  <User2ID1/>
  <User2ID2/>
  <User2ID3/>
  <RouteName1/>
  <RouteName2/>
  <RouteName3/>

```

```

    <DispatcherID1>CentranSS</DispatcherID1>
    <DispatcherID2/>
    <DispatcherID3/>
    <OpenTime1>2012-05-23T17:49:50.83Z</OpenTime1>
    <OpenTime2/>
    <OpenTime3/>
    <CloseTime1>2012-05-23T17:51:24.93Z</CloseTime1>
    <CloseTime2/>
    <CloseTime3/>
    <IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
    <IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
    <IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
    <PreviousUser1ID1>F3</PreviousUser1ID1>
    <PreviousUser1ID2/>
    <PreviousUser1ID3/>
    <PreviousUser2ID1/>
    <PreviousUser2ID2/>
    <PreviousUser2ID3/>
    <PreviousRouteName1/>
    <PreviousRouteName2/>
    <PreviousRouteName3/>
    <PreviousOpenTime1>2012-05-23T17:44:40.247Z</PreviousOpenTime1>
    <PreviousOpenTime2/>
    <PreviousOpenTime3/>
    <PreviousCloseTime1>2012-05-23T17:48:55.653Z</PreviousCloseTime1>
    <PreviousCloseTime2/>
    <PreviousCloseTime3/>
    <ServiceBranch>My new service branch</ServiceBranch>
    <Address1>749 West Short Street</Address1>
    <Address2/>
    <City>Lexington</City>
    <State>Kentucky</State>
    <ZIP>40508-1200</ZIP>
    <Country>USA</Country>
    <KeyCloseSeal>1390</KeyCloseSeal>
    <BankBranchName/>
    <BankOpenDelay>0</BankOpenDelay>
    <BankOpenWindow>0</BankOpenWindow>
    <LockHardwareModel/>
    <LockActivationStatus>gen2</LockActivationStatus>
    <LockDispatchStatus/>
    <TimeZoneID>Eastern Standard Time</TimeZoneID>
    <LowBatteryDate/>
    <DuressDate/>
    <IfLegacyImport>>false</IfLegacyImport>
    <NetworkAddress>10.108.6.121</NetworkAddress>
    <NetworkPort>35005</NetworkPort>
    <DisplayIssuedComboUser1Seq1/>
    <DisplayIssuedComboUser1Seq2/>
    <DisplayIssuedComboUser1Seq3/>
    <DisplayIssuedComboUser2Seq1/>
    <DisplayIssuedComboUser2Seq2/>
    <DisplayIssuedComboUser2Seq3/>
    <CloseSealLength>4</CloseSealLength>
  </LockRecord>
</LockRemoteModeStatusAndDatabaseRecord>
<LockRemoteModeStatusAndDatabaseRecord>
  <LockRemoteModeStatusRecord>
    <LockModeStatus>Closed</LockModeStatus>
    <LockModeOpeningOdometer>3</LockModeOpeningOdometer>
    <LockCurrentUserCount>0</LockCurrentUserCount>
    <LockMaximumUserCount>0</LockMaximumUserCount>
    <TimeDelayBeforeOpenMinutes>0</TimeDelayBeforeOpenMinutes>
    <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
    <UnmodifiedOpeningCloseSeal>7914</UnmodifiedOpeningCloseSeal>
    <OpeningFirstUserID/>
    <OpeningFirstUserKeyInformation>
      <CanType>04</CanType>
      <KeyID>0000006D3288</KeyID>
    </OpeningFirstUserKeyInformation>
    <OpeningFirstUserTimestamp>2012-01-23T16:04:54Z</OpeningFirstUserTimestamp>
    <OpeningSecondUserID/>
    <OpeningSecondUserKeyInformation/>
    <OpeningSecondUserTimestamp/>
    <IfDuressComboUsedOnOpen>>false</IfDuressComboUsedOnOpen>
    <IfClockBatteryLowOrResetOnOpen>>false</IfClockBatteryLowOrResetOnOpen>
    <ClosingUserID/>
    <ClosingUserKeyInformation/>
    <ClosingUserTimestamp>2012-01-23T16:06:28Z</ClosingUserTimestamp>
    <ModifiedClosingCloseSeal>0000</ModifiedClosingCloseSeal>
    <LockModeClosingOdometer>1</LockModeClosingOdometer>
  </LockRemoteModeStatusRecord>
</LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-01-23T15:54:02.407Z</StartDate>
  <LastUsedDate>2012-01-23T16:06:28.397Z</LastUsedDate>
  <CustomerNumber>502460</CustomerNumber>
  <LockMode>R</LockMode>
  <IfDualMode>>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
  <AuditCount>3</AuditCount>
  <IfLockOpen>>false</IfLockOpen>
  <IfForcedClosed>>false</IfForcedClosed>
  <IfRoute1Issued>>false</IfRoute1Issued>
  <IfRoute2Issued>>false</IfRoute2Issued>
  <IfRoute3Issued>>false</IfRoute3Issued>

```



```
<IfNoAlarm>false</IfNoAlarm>
<IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
<IfActivationCall>false</IfActivationCall>
<IfUnassignedOpenCall>false</IfUnassignedOpenCall>
<Seal>26940</Seal>
<PreviousSeal>12603</PreviousSeal>
<RouteSeal1>26940</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>12603</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>310583</IssuedComboUser1Seq1>
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<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
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<PreviousComboUser1Seq1>812064</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName>AA001</GroupName>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>123-4567-8910</Description1>
<Description2>2013-10-17</Description2>
<Description3>#34</Description3>
<Description4>Joe Bob Jr.</Description4>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1>Cylinder</UserDefined1>
<UserDefined2>Joe Bob Sr.</UserDefined2>
<UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
<UserDefined4>Jane Bob</UserDefined4>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>false</IfLastRoute1Issued>
<IfLastRoute2Issued>false</IfLastRoute2Issued>
<IfLastRoute3Issued>false</IfLastRoute3Issued>
<User1ID1>rjrb8</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CENTRAN</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2012-01-23T16:04:26.653Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2012-01-23T16:06:28.397Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>rjrb8</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2012-01-23T15:59:55.307Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2012-01-23T16:03:10.77Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>38202</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
```



```

<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</LockRemoteModeStatusAndDatabaseRecord>
<LockRemoteModeStatusAndDatabaseRecord>
  <LockRemoteModeStatusRecord>
    <LockModeStatus>Closed</LockModeStatus>
    <LockModeOpeningOdometer>1</LockModeOpeningOdometer>
    <LockCurrentUserCount>9</LockCurrentUserCount>
    <LockMaximumUserCount>100</LockMaximumUserCount>
    <TimeDelayBeforeOpenMinutes>0</TimeDelayBeforeOpenMinutes>
    <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
    <UnmodifiedOpeningCloseSeal>0000</UnmodifiedOpeningCloseSeal>
    <OpeningFirstUserID>0003</OpeningFirstUserID>
    <OpeningFirstUserKeyInformation>
      <CanType>84</CanType>
      <KeyID>0000000DE164</KeyID>
    </OpeningFirstUserKeyInformation>
    <OpeningFirstUserTimestamp>2011-10-24T18:05:39Z</OpeningFirstUserTimestamp>
    <OpeningSecondUserID/>
    <OpeningSecondUserKeyInformation/>
    <OpeningSecondUserTimestamp/>
    <IfDuressComboUsedOnOpen>false</IfDuressComboUsedOnOpen>
    <IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
    <ClosingUserID>0000</ClosingUserID>
    <ClosingUserKeyInformation/>
    <ClosingUserTimestamp>2011-10-24T18:07:52Z</ClosingUserTimestamp>
    <ModifiedClosingCloseSeal>0000</ModifiedClosingCloseSeal>
    <LockModeClosingOdometer>2</LockModeClosingOdometer>
  </LockRemoteModeStatusRecord>
</LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-01-23T15:54:22.987Z</StartDate>
  <LastUsedDate/>
  <CustomerNumber>612083</CustomerNumber>
  <LockMode>B</LockMode>
  <IfDualMode>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
  <AuditCount>1</AuditCount>
  <IfLockOpen>false</IfLockOpen>
  <IfForcedClosed>false</IfForcedClosed>
  <IfRoute1Issued>false</IfRoute1Issued>
  <IfRoute2Issued>false</IfRoute2Issued>
  <IfRoute3Issued>false</IfRoute3Issued>
  <IfNoAlarm>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
  <Seal>0</Seal>
  <PreviousSeal>0</PreviousSeal>
  <RouteSeal1>0</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>0</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
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  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName>AA001</GroupName>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1>123-4567-8910</Description1>
  <Description2>2013-10-17</Description2>
  <Description3>#34</Description3>
  <Description4>Joe Bob Jr.</Description4>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1>Cylinder</UserDefined1>
  <UserDefined2>Joe Bob Sr.</UserDefined2>
  <UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
  <UserDefined4>Jane Bob</UserDefined4>
  <Region>KENTUCKY</Region>
  <IfLastRoute1Issued>false</IfLastRoute1Issued>
  <IfLastRoute2Issued>false</IfLastRoute2Issued>
  <IfLastRoute3Issued>false</IfLastRoute3Issued>

```

```

<User1ID1/>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1/>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1/>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>0</CloseSealLength>
<BankModeUserNameArray>
  <UserID>Bank User 1</UserID>
  <UserID>Bank User 2</UserID>
</BankModeUserNameArray>
</LockRecord>
</LockRemoteModeStatusAndDatabaseRecord>
</RESPONSE_LOCK_REMOTE_STATUS>

```

2.10.2 Remote Lock Management XML File Transactions - Query Lock Audits Across Network

CenTran Programming Reference Manual

This transaction is used to query the audits, hardware and operational status of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- Lock IP Address and Port - Specifies the lock to connect to from CenTran to read the lock audits from.
- Lock Communications ID - Specifies an alternate identification of a lock to connect to from CenTran to read the lock audits. This is to support alternate methods of handling remote communications with locks for various network topologies.
- Lock Communications Method - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success
- Lock operational status record
- Lock hardware status record
- Up to three records with lock mode status record and matching lock record data from the Cencon database, for each mode of the lock you have security access to in your Cencon database.
- All audit records read from the lock

See [Appendix E - Lock Audit Data](#) for details of the lock audit information returned by CenTran.

Failure:

- Result record indicating failure

Example

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_DOWNLOAD_AUDITS>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_DOWNLOAD_AUDITS>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_DOWNLOAD_AUDITS>
  <TRANSACTION_LOCK_REMOTE_DOWNLOAD_AUDITS>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_DOWNLOAD_AUDITS>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock audits queried from lock successfully.</Description>
  </ResultRecord>
  <LockRemoteStatusRecord>
    <ProductFamily>2</ProductFamily>
    <ProductCode>2</ProductCode>
    <MajorVersion>2</MajorVersion>
    <MinorVersion>0</MinorVersion>
    <BuildVersion>824</BuildVersion>
    <SerialNumber>001000107</SerialNumber>
    <IfDuressOpenInProgress>false</IfDuressOpenInProgress>
    <IfDelayedOpenInProgress>false</IfDelayedOpenInProgress>
    <IfBoltRetracted>false</IfBoltRetracted>
    <IfShelvedOpenInProgress>false</IfShelvedOpenInProgress>
    <IfLockOutInProgress>false</IfLockOutInProgress>
    <IfBoltExtendedDoorOpen>false</IfBoltExtendedDoorOpen>
    <IfRemoteDisable>false</IfRemoteDisable>
    <LockFLMModeActivationStatus>ActivateSingleUser</LockFLMModeActivationStatus>
    <IfLockFLMModeActive>true</IfLockFLMModeActive>
    <LockRouteModeActivationStatus>ActivateSingleUser</LockRouteModeActivationStatus>
    <IfLockRouteModeActive>true</IfLockRouteModeActive>
    <LockBankModeActivationStatus>ActivateSingleUser</LockBankModeActivationStatus>
    <IfLockBankModeActive>true</IfLockBankModeActive>
    <LockOpeningOdometer>104</LockOpeningOdometer>
    <IfAuditStatusWrapped>false</IfAuditStatusWrapped>
    <AuditEventCount>409</AuditEventCount>
    <ListLockRemoteStatusErrorHistoryRecord>
      <LockRemoteStatusErrorHistoryRecord>
```

```

        <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
        <LockErrorMode>TM Key Error</LockErrorMode>
        </LockRemoteStatusErrorHistoryRecord>
        <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>Reading Housekeeping Record</LockErrorTransaction>
        <LockErrorMode>TM Key Error</LockErrorMode>
        </LockRemoteStatusErrorHistoryRecord>
        <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
        <LockErrorMode>TM Key Error</LockErrorMode>
        </LockRemoteStatusErrorHistoryRecord>
        <LockRemoteStatusErrorHistoryRecord>
        <LockErrorMode>TM Key Error</LockErrorMode>
        </LockRemoteStatusErrorHistoryRecord>
        <LockRemoteStatusErrorHistoryRecord>
        <LockErrorMode>TM Key Error</LockErrorMode>
        </LockRemoteStatusErrorHistoryRecord>
        <LockRemoteStatusErrorHistoryRecord>
        <LockErrorMode>TM Key Error</LockErrorMode>
        </LockRemoteStatusErrorHistoryRecord>
        <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>Key-type mismatch Error</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
        </LockRemoteStatusErrorHistoryRecord>
        <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
        </LockRemoteStatusErrorHistoryRecord>
        <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
        </LockRemoteStatusErrorHistoryRecord>
        <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
        </LockRemoteStatusErrorHistoryRecord>
        <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>Last Audit record not an 'Open'
Audit</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
        </LockRemoteStatusErrorHistoryRecord>
        <LockRemoteStatusErrorHistoryRecord>
        <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
        </LockRemoteStatusErrorHistoryRecord>
</ListLockRemoteStatusErrorHistoryRecord>
<AuditEventOdometer>0</AuditEventOdometer>
<IfDoorSensorConnectedOnOpen>invalid</IfDoorSensorConnectedOnOpen>
<IfBoltWorksSensorConnectedOnOpen>invalid</IfBoltWorksSensorConnectedOnOpen>
<IfRemoteAdministrationEnabled>invalid</IfRemoteAdministrationEnabled>
</LockRemoteStatusRecord>
<LockRemoteHardwareStatusRecord>
        <LockKeyReaderStatus>NoKeyPresent</LockKeyReaderStatus>
        <LockKeyBoardStatus>KeyBoardPresent_NoKeysHeld</LockKeyBoardStatus>
        <LastKeyPressed>0</LastKeyPressed>
        <LockDisplayStatus>DisplaySuccessfullyCleared</LockDisplayStatus>
        <LockCamPositionSensorStatus>CamSwitchIsOpen</LockCamPositionSensorStatus>
        <SuperCapVoltage>5.8</SuperCapVoltage>
        <ClockBatteryVoltage>3.076</ClockBatteryVoltage>
        <LockDoorSensorStatus>DoorSensorNotConnected</LockDoorSensorStatus>
        <LockDisableInputStatus>LockEnabled</LockDisableInputStatus>
        <LockPowerSupplyStatus>PowerSupplyGood</LockPowerSupplyStatus>
        <LockSolenoidKickerCapStatus>KickerCapIsDischarged</LockSolenoidKickerCapStatus>
        <LockChangeKeyStatus>ChangeKeyIsNotPresent</LockChangeKeyStatus>
        <LockGPIO1Status>LineHigh</LockGPIO1Status>
        <LockGPIO2Status>LineHigh</LockGPIO2Status>
        <LockOnboardMemoryStatus>MemoryResponding</LockOnboardMemoryStatus>
        <LockOnboardClockStatus>ClockRespondingRunning</LockOnboardClockStatus>

<LockOnboardClockInterruptLineStatus>NoClockInterrupt</LockOnboardClockInterruptLineStatus>
        <LockOnboardClockDateTime>2012-08-28T14:08:22Z</LockOnboardClockDateTime>
        <LockOnboardClockDateTimeRead>2012-08-
28T14:08:05.6535099Z</LockOnboardClockDateTimeRead>
        <Temperature>23</Temperature>
        <VCCSystemVoltage>3.3</VCCSystemVoltage>
        <MemoryFormatVersion>0</MemoryFormatVersion>
        <LockControlCardStatus>invalid</LockControlCardStatus>
        <LockBreakOutBoxStatus>invalid</LockBreakOutBoxStatus>
        <LockBoltRetractedSwitchStatus>invalid</LockBoltRetractedSwitchStatus>
        <LockBoltExtendedSwitchStatus>invalid</LockBoltExtendedSwitchStatus>
        <LockBoltWorksExtendedSensorStatus>invalid</LockBoltWorksExtendedSensorStatus>
        <LockAlternateChangeKeyStatus>invalid</LockAlternateChangeKeyStatus>
        <LockAuxiliarySerialIO_Num0_Status>invalid</LockAuxiliarySerialIO_Num0_Status>
</LockRemoteHardwareStatusRecord>
<LockRemoteModeStatusAndDatabaseRecord>
        <LockRemoteModeStatusRecord>
                <LockModeStatus>Closed</LockModeStatus>
                <LockModeOpeningOdometer>6</LockModeOpeningOdometer>
                <LockCurrentUserCount>0</LockCurrentUserCount>
                <LockMaximumUserCount>0</LockMaximumUserCount>
                <TimeDelayBeforeOpenMinutes>0</TimeDelayBeforeOpenMinutes>
                <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
                <UnmodifiedOpeningCloseSeal>0686</UnmodifiedOpeningCloseSeal>
                <OpeningFirstUserID/>
                <OpeningFirstUserKeyInformation>

```

```

        <CanType>04</CanType>
        <KeyID>00000046107A</KeyID>
    </OpeningFirstUserKeyInformation>
    <OpeningFirstUserTimestamp>2012-05-23T17:50:14Z</OpeningFirstUserTimestamp>
    <OpeningSecondUserID/>
    <OpeningSecondUserKeyInformation/>
    <OpeningSecondUserTimestamp/>
    <IfDuressComboUsedOnOpen>false</IfDuressComboUsedOnOpen>
    <IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
    <ClosingUserID/>
    <ClosingUserKeyInformation>
        <CanType>04</CanType>
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  <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>false</IsLockCloseSealValid>
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  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID>BU02</User1ID>
  <User2ID/>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <RouteName/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <Region>KENTUCKY</Region>

```

```

<SerialNumber>001000107</SerialNumber>
<BankBranchName>North Bank Branch</BankBranchName>
<BankUserID>2</BankUserID>
<BankBranchID>1234</BankBranchID>
<GroupName>AA001</GroupName>
<Description>Gen2Lock 1000107 Lock Event: Change Combination</Description>
<auditPK>03a8c95d-12f2-44d6-ae9f-1740bcc09804</auditPK>
<User1Key>
  <CanType>84</CanType>
  <KeyID>0000000C5C95</KeyID>
</User1Key>
<User2Key/>
<LogonKey/>
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<LockCloseSeal/>
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<IsLockDuressComboUsed>>false</IsLockDuressComboUsed>
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  <LogonUser2ID/>
  <LogonUser3ID/>
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  <User2ID/>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <RouteName/>
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  <BankBranchName>North Bank Branch</BankBranchName>
  <BankUserID>999999</BankUserID>
  <BankBranchID>1234</BankBranchID>
  <GroupName>AA001</GroupName>
  <Description>Gen2Lock 1000107 Lock Event: Open/Close Lock</Description>
  <auditPK>8dd3986f-67aa-48a8-8b0b-1c27086da39e</auditPK>
  <User1Key>
    <CanType>18</CanType>
    <KeyID>0000003D710C</KeyID>
  </User1Key>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>0</LockTransactionCategory>
  <LockTransactionType>48</LockTransactionType>
  <LockTransactionEvent>3</LockTransactionEvent>
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  <IsLockCloseSealValid>>false</IsLockCloseSealValid>
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  <LockOpenTime>2010-03-24T18:12:21Z</LockOpenTime>
  <LockCloseTime>2010-03-24T18:12:30Z</LockCloseTime>
  <IsPossibleLockErrorOrIntrusion>>false</IsPossibleLockErrorOrIntrusion>
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  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
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  <LockMode>B</LockMode>
  <RouteName/>
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  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <SerialNumber>001000107</SerialNumber>
  <BankBranchName>North Bank Branch</BankBranchName>
  <BankUserID>0</BankUserID>
  <BankBranchID>1234</BankBranchID>
  <GroupName>AA001</GroupName>

```



```

<Description>Gen2Lock 1000107 Lock Event: Bank Mode Users Added</Description>
<auditPK>0ebe2dcc-a532-4e52-8c88-3febc2e5243e</auditPK>
<User1Key/>
<User2Key/>
<LogonKey/>
<LockTransactionCategory>161</LockTransactionCategory>
<LockTransactionType>0</LockTransactionType>
<LockTransactionEvent>1</LockTransactionEvent>
<LockCloseSeal/>
<LockFullSealCount>0</LockFullSealCount>
<IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
<IsLockDuressComboUsed>false</IsLockDuressComboUsed>
<IsLockCloseSealValid>false</IsLockCloseSealValid>
<LockAbbreviatedDeviceID/>
<LockOpenTime>2010-03-24T18:12:07Z</LockOpenTime>
<LockCloseTime/>
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<LockEventAuditRecord>
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  <EventResult>0</EventResult>
  <EventDate>2010-03-24T18:11:04Z</EventDate>
  <PreviousDate/>
  <LogonUser1ID/>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <RouteName/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <SerialNumber>001000107</SerialNumber>
  <BankBranchName>North Bank Branch</BankBranchName>
  <BankUserID>0</BankUserID>
  <BankBranchID>1234</BankBranchID>
  <GroupName>AA001</GroupName>
  <Description>Gen2Lock 1000107 Lock Event: Bank Mode Users Deleted</Description>
  <auditPK>3e17ea33-7b8b-4dcb-963d-72103a553275</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
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  <LockTransactionType>0</LockTransactionType>
  <LockTransactionEvent>2</LockTransactionEvent>
  <LockCloseSeal/>
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  <IsLockCloseSealValid>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime>2010-03-24T18:11:04Z</LockOpenTime>
  <LockCloseTime/>
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  <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
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<LockEventAuditRecord>
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  <EventResult>0</EventResult>
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  <LogonUser3ID/>
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  <User2ID/>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <RouteName/>
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  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <Region>KENTUCKY</Region>
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  <BankBranchName>North Bank Branch</BankBranchName>
  <BankUserID>999999</BankUserID>
  <BankBranchID>1234</BankBranchID>
  <GroupName>AA001</GroupName>
  <Description>Gen2Lock 1000107 Lock Event: Open/Close Lock</Description>
  <auditPK>d9142abd-82c8-4453-b1f7-d413950a9638</auditPK>
  <User1Key>
    <CanType>18</CanType>
    <KeyID>0000003D710C</KeyID>
  </User1Key>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>0</LockTransactionCategory>
  <LockTransactionType>48</LockTransactionType>
  <LockTransactionEvent>3</LockTransactionEvent>

```



```

<LockCloseSeal/>
<LockFullSealCount>2</LockFullSealCount>
<IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
<IsLockDuressComboUsed>false</IsLockDuressComboUsed>
<IsLockCloseSealValid>false</IsLockCloseSealValid>
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  <EventResult>0</EventResult>
  <EventDate>2010-03-24T17:59:52Z</EventDate>
  <PreviousDate/>
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  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <RouteName/>
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  <Region>KENTUCKY</Region>
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  <BankUserID>0</BankUserID>
  <BankBranchID>1234</BankBranchID>
  <GroupName>AA001</GroupName>
  <Description>Gen2Lock 1000107 Lock Event: Bank Mode Time Zone DST Table
Write</Description>
  <auditPK>b05a43ec-fa8a-4198-a839-01be61075289</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
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  <LockTransactionType>0</LockTransactionType>
  <LockTransactionEvent>3</LockTransactionEvent>
  <LockCloseSeal/>
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  <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime>2010-03-24T17:59:52Z</LockOpenTime>
  <LockCloseTime/>
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  <EventResult>0</EventResult>
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  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <RouteName/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <SerialNumber>001000107</SerialNumber>
  <BankBranchName>North Bank Branch</BankBranchName>
  <BankUserID>0</BankUserID>
  <BankBranchID>1234</BankBranchID>
  <GroupName>AA001</GroupName>
  <Description>Gen2Lock 1000107 Lock Event: Clock Write</Description>
  <auditPK>6765060b-a7bf-44b2-8813-9d34bbf0ffa1</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>161</LockTransactionCategory>
  <LockTransactionType>0</LockTransactionType>
  <LockTransactionEvent>0</LockTransactionEvent>
  <LockCloseSeal/>
  <LockFullSealCount>0</LockFullSealCount>
  <IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
  <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime>2010-03-24T17:59:51Z</LockOpenTime>
  <LockCloseTime>2010-03-24T17:59:52Z</LockCloseTime>
  <IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
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```

```

    <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
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    <EventResult>0</EventResult>
    <EventDate>2010-03-24T17:59:50Z</EventDate>
    <PreviousDate/>
    <LogonUserID/>
    <LogonUser2ID/>
    <LogonUser3ID/>
    <User1ID/>
    <User2ID/>
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    <LockMode>B</LockMode>
    <RouteName/>
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    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <Region>KENTUCKY</Region>
    <SerialNumber>001000107</SerialNumber>
    <BankBranchName>North Bank Branch</BankBranchName>
    <BankUserID>0</BankUserID>
    <BankBranchID>1234</BankBranchID>
    <GroupName>AA001</GroupName>
    <Description>Gen2Lock 1000107 Lock Event: Bank Mode Users Added</Description>
    <auditPK>f99d03f8-bc46-419d-8323-9bf89c8f7378</auditPK>
    <User1Key/>
    <User2Key/>
    <LogonKey/>
    <LockTransactionCategory>161</LockTransactionCategory>
    <LockTransactionType>0</LockTransactionType>
    <LockTransactionEvent>1</LockTransactionEvent>
    <LockCloseSeal/>
    <LockFullSealCount>0</LockFullSealCount>
    <IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
    <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
    <IsLockCloseSealValid>false</IsLockCloseSealValid>
    <LockAbbreviatedDeviceID/>
    <LockOpenTime>2010-03-24T17:59:50Z</LockOpenTime>
    <LockCloseTime/>
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    <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
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  <LockEventAuditRecord>
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    <EventResult>0</EventResult>
    <EventDate>2010-03-24T17:59:47Z</EventDate>
    <PreviousDate/>
    <LogonUserID/>
    <LogonUser2ID/>
    <LogonUser3ID/>
    <User1ID/>
    <User2ID/>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>B</LockMode>
    <RouteName/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <Region>KENTUCKY</Region>
    <SerialNumber>001000107</SerialNumber>
    <BankBranchName>North Bank Branch</BankBranchName>
    <BankUserID>0</BankUserID>
    <BankBranchID>1234</BankBranchID>
    <GroupName>AA001</GroupName>
    <Description>Gen2Lock 1000107 Lock Event: Activate Bank Mode</Description>
    <auditPK>4a73d43e-6a86-4d09-a60d-889183cea58a</auditPK>
    <User1Key/>
    <User2Key/>
    <LogonKey/>
    <LockTransactionCategory>157</LockTransactionCategory>
    <LockTransactionType>0</LockTransactionType>
    <LockTransactionEvent>9</LockTransactionEvent>
    <LockCloseSeal/>
    <LockFullSealCount>0</LockFullSealCount>
    <IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
    <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
    <IsLockCloseSealValid>false</IsLockCloseSealValid>
    <LockAbbreviatedDeviceID/>
    <LockOpenTime>2010-03-24T17:59:47Z</LockOpenTime>
    <LockCloseTime/>
    <IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
    <LockAuditIndex>0</LockAuditIndex>
    <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
    <ClientIPAddress/>
    <LockIPAddress>10.108.6.121:35005</LockIPAddress>
  </LockEventAuditRecord>
</RESPONSE_LOCK_REMOTE_DOWNLOAD_AUDITS>

```


2.10.3 Remote Lock Management XML File Transactions - Evaluate Lock Event Across Network

CenTran Programming Reference Manual

This transaction is used to evaluate an event that has occurred at a Cencon Gen 2 or higher lock that is connected to a network IP address. The operational and hardware status is read from the lock, as well as any new audits that have occurred at the lock since the last time audits were read.

Any new audits from the lock are added to the Cencon database audit table. If a dispatch to the lock has resulted in the lock being opened and closed, the lock dispatch is closed out in the Cencon database. Any audits that indicate a possible error or intrusion into the lock are flagged in the Cencon database.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- Lock IP Address and Port - Specifies the lock to connect to from CenTran to evaluate the lock events from.
- Lock Communications ID - Specifies an alternate identification of a lock to connect to from CenTran to evaluate the lock events. This is to support alternate methods of handling remote communications with locks for various network topologies.
- Lock Communications Method - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success
- Lock operational status record, prior to actions taken by CenTran
- Lock operational status record, following actions taken by CenTran
- Lock hardware status record
- Up to three records with lock mode status record and matching lock record data from the Cencon database, for each mode of the lock you have security access to in your Cencon database. This will include the lock mode status record prior to actions taken by CenTran and the lock mode status record following actions taken by CenTran.
- Any Cencon audits resulting from the action taken by CenTran to evaluate the lock event. This will generally be if a dispatch to the lock was closed out.
- Any new audits from the lock indicating the event that occurred.

See [Appendix E - Lock Audit Data](#) for details of the lock audit information returned by CenTran.

Failure:

- Result record indicating failure

Example 1: Evaluating a lock open event.

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
```

Output Transaction: Result of evaluating a lock open event.

```
<RESPONSE_LOCK_REMOTE_EVALUATE_EVENT>
  <TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock event evaluated from lock successfully.</Description>
  </ResultRecord>
  <LockRemoteStatusRecord>
    <ProductFamily>2</ProductFamily>
    <ProductCode>2</ProductCode>
    <MajorVersion>2</MajorVersion>
    <MinorVersion>0</MinorVersion>
    <BuildVersion>824</BuildVersion>
    <SerialNumber>001000107</SerialNumber>
    <IfDuressOpenInProgress>>false</IfDuressOpenInProgress>
    <IfDelayedOpenInProgress>>false</IfDelayedOpenInProgress>
    <IfBoltRetracted>>true</IfBoltRetracted>
    <IfShelvedOpenInProgress>>false</IfShelvedOpenInProgress>
    <IfLockOutInProgress>>false</IfLockOutInProgress>
    <IfBoltExtendedDoorOpen>>false</IfBoltExtendedDoorOpen>
    <IfRemoteDisable>>false</IfRemoteDisable>
```

```

<LockFLMModeActivationStatus>ActivateSingleUser PendingClose</LockFLMModeActivationStatus>
  <IfLockFLMModeActive>true</IfLockFLMModeActive>
  <LockRouteModeActivationStatus>ActivateSingleUser</LockRouteModeActivationStatus>
  <IfLockRouteModeActive>true</IfLockRouteModeActive>
  <LockBankModeActivationStatus>ActivateSingleUser</LockBankModeActivationStatus>
  <IfLockBankModeActive>true</IfLockBankModeActive>
  <LockOpeningOdometer>105</LockOpeningOdometer>
  <IfAuditStatusWrapped>false</IfAuditStatusWrapped>
  <AuditEventCount>410</AuditEventCount>
  <ListLockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>Reading Housekeeping Record</LockErrorTransaction>
      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
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      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Key-type mismatch Error</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Last Audit record not an 'Open'
Audit</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
</ListLockRemoteStatusErrorHistoryRecord>
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  <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
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  <OpeningFirstUserID>0003</OpeningFirstUserID>
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    <KeyID>0000000DE164</KeyID>
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  <OpeningFirstUserTimestamp>2011-10-24T18:05:39Z</OpeningFirstUserTimestamp>
  <OpeningSecondUserID/>
  <OpeningSecondUserKeyInformation/>
  <OpeningSecondUserTimestamp/>
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  <IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
  <ClosingUserID>0000</ClosingUserID>
  <ClosingUserKeyInformation/>
  <ClosingUserTimestamp>2011-10-24T18:07:52Z</ClosingUserTimestamp>
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  <LockModeClosingOdometer>2</LockModeClosingOdometer>
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<LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-01-23T15:54:22.987Z</StartDate>
  <LastUsedDate/>
  <CustomerNumber>612083</CustomerNumber>
  <LockMode>B</LockMode>
  <IfDualMode>false</IfDualMode>
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  <AuditCount>1</AuditCount>
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  <IfRoute1Issued>false</IfRoute1Issued>
  <IfRoute2Issued>false</IfRoute2Issued>
  <IfRoute3Issued>false</IfRoute3Issued>
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  <IfActivationCall>false</IfActivationCall>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
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  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
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  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
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  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
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  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
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  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
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  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName>AA001</GroupName>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1>123-4567-8910</Description1>
  <Description2>2013-10-17</Description2>
  <Description3>#34</Description3>
  <Description4>Joe Bob Jr.</Description4>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1>Cylinder</UserDefined1>
  <UserDefined2>Joe Bob Sr.</UserDefined2>
  <UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
  <UserDefined4>Jane Bob</UserDefined4>
  <Region>KENTUCKY</Region>
  <IfLastRoute1Issued>false</IfLastRoute1Issued>
  <IfLastRoute2Issued>false</IfLastRoute2Issued>
  <IfLastRoute3Issued>false</IfLastRoute3Issued>
  <User1ID1/>
  <User1ID2/>
  <User1ID3/>
  <User2ID1/>
  <User2ID2/>
  <User2ID3/>
  <RouteName1/>
  <RouteName2/>
  <RouteName3/>
  <DispatcherID1/>
  <DispatcherID2/>
  <DispatcherID3/>

```

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        <OpenTime2/>
        <OpenTime3/>
        <CloseTime1/>
        <CloseTime2/>
        <CloseTime3/>
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        <IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
        <IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
        <PreviousUser1ID1/>
        <PreviousUser1ID2/>
        <PreviousUser1ID3/>
        <PreviousUser2ID1/>
        <PreviousUser2ID2/>
        <PreviousUser2ID3/>
        <PreviousRouteName1/>
        <PreviousRouteName2/>
        <PreviousRouteName3/>
        <PreviousOpenTime1/>
        <PreviousOpenTime2/>
        <PreviousOpenTime3/>
        <PreviousCloseTime1/>
        <PreviousCloseTime2/>
        <PreviousCloseTime3/>
        <ServiceBranch>North Bank Service</ServiceBranch>
        <Address1>749 West Short Street</Address1>
        <Address2/>
        <City>Lexington</City>
        <State>Kentucky</State>
        <ZIP>40508-1200</ZIP>
        <Country>USA</Country>
        <KeyCloseSeal>0</KeyCloseSeal>
        <BankBranchName>North Bank Branch</BankBranchName>
        <BankOpenDelay>0</BankOpenDelay>
        <BankOpenWindow>0</BankOpenWindow>
        <LockHardwareModel/>
        <LockActivationStatus>gen2</LockActivationStatus>
        <LockDispatchStatus/>
        <TimeZoneID>Eastern Standard Time</TimeZoneID>
        <LowBatteryDate/>
        <DuressDate/>
        <IfLegacyImport>false</IfLegacyImport>
        <NetworkAddress>10.108.6.121</NetworkAddress>
        <NetworkPort>35005</NetworkPort>
        <DisplayIssuedComboUser1Seq1/>
        <DisplayIssuedComboUser1Seq2/>
        <DisplayIssuedComboUser1Seq3/>
        <DisplayIssuedComboUser2Seq1/>
        <DisplayIssuedComboUser2Seq2/>
        <DisplayIssuedComboUser2Seq3/>
    </LockRecord>
</LockRemoteEvaluateModeStatusAndDatabaseRecord>
<CenconResponseAuditRecord>
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    <EventResult>0</EventResult>
    <EventDate>2012-08-28T14:23:19.234Z</EventDate>
    <PreviousDate/>
    <LogonUser1ID>CentranSS</LogonUser1ID>
    <LogonUser2ID/>
    <LogonUser3ID/>
    <User1ID/>
    <User2ID/>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>F</LockMode>
    <RouteName/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <Region>KENTUCKY</Region>
    <SerialNumber>001000107</SerialNumber>
    <BankBranchName/>
    <BankUserID>0</BankUserID>
    <BankBranchID>0</BankBranchID>
    <GroupName>AA001</GroupName>
    <Description>CentTran transaction to evaluate a lock event at IP address:
10.108.6.121:35005</Description>
    <auditPK>2da27085-18a4-46d6-a970-fb25e57ba0d1</auditPK>
    <User1Key/>
    <User2Key/>
    <LogonKey/>
    <LockTransactionCategory/>
    <LockTransactionType/>
    <LockTransactionEvent/>
    <LockCloseSeal/>
    <LockFullSealCount/>
    <IsLockClockBatteryIsLow/>
    <IsLockDuressComboUsed/>
    <IsLockCloseSealValid/>
    <LockAbbreviatedDeviceID/>
    <LockOpenTime/>
    <LockCloseTime/>
    <IsPossibleLockErrorOrIntrusion/>
    <LockAuditIndex/>
    <DatabaseLockAuditIndex/>
    <ClientIPAddress>10.108.1.80:26213</ClientIPAddress>
    <LockIPAddress>10.108.6.121:35005</LockIPAddress>
</CenconResponseAuditRecord>
<LockEventAuditRecord>

```

```

<EventType>ENV_LOCK_EVENT</EventType>
<EventResult>0</EventResult>
<EventDate>2012-08-28T14:14:38Z</EventDate>
<PreviousDate/>
<LogonUser1ID/>
<LogonUser2ID/>
<LogonUser3ID/>
<User1ID>F3</User1ID>
<User2ID/>
<LockName>Gen2Lock 1000107</LockName>
<LockMode>F</LockMode>
<RouteName/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<Region>KENTUCKY</Region>
<SerialNumber>001000107</SerialNumber>
<BankBranchName/>
<BankUserID>0</BankUserID>
<BankBranchID>0</BankBranchID>
<GroupName>AA001</GroupName>
<Description>Gen2Lock 1000107 Lock Event: Open Lock</Description>
<auditPK>c342b995-989a-43d2-9dea-b3590406fb63</auditPK>
<User1Key>
  <CanType>04</CanType>
  <KeyID>00000046107A</KeyID>
</User1Key>
<User2Key/>
<LogonKey/>
<LockTransactionCategory>0</LockTransactionCategory>
<LockTransactionType>16</LockTransactionType>
<LockTransactionEvent>1</LockTransactionEvent>
<LockCloseSeal/>
<LockFullSealCount>7</LockFullSealCount>
<IsLockClockBatteryIsLow>>false</IsLockClockBatteryIsLow>
<IsLockDuressComboUsed>>false</IsLockDuressComboUsed>
<IsLockCloseSealValid>>false</IsLockCloseSealValid>
<LockAbbreviatedDeviceID/>
<LockOpenTime>2012-08-28T14:14:38Z</LockOpenTime>
<LockCloseTime/>
<IsPossibleLockErrorOrIntrusion>>false</IsPossibleLockErrorOrIntrusion>
<LockAuditIndex>0</LockAuditIndex>
<DatabaseLockAuditIndex>410</DatabaseLockAuditIndex>
<ClientIPAddress/>
<LockIPAddress>10.108.6.121:35005</LockIPAddress>
</LockEventAuditRecord>
</RESPONSE_LOCK_REMOTE_EVALUATE_EVENT>

```

Example 2: Evaluating a lock close event.

Example Input Transaction:

```

<TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>

```

Output Transaction: Result of evaluating a lock close event.

```

<RESPONSE_LOCK_REMOTE_EVALUATE_EVENT>
  <TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock event evaluated from lock successfully.</Description>
  </ResultRecord>
  <LockRemoteStatusRecord>
    <ProductFamily>2</ProductFamily>
    <ProductCode>2</ProductCode>
    <MajorVersion>2</MajorVersion>
    <MinorVersion>0</MinorVersion>
    <BuildVersion>824</BuildVersion>
    <SerialNumber>001000107</SerialNumber>
    <IfDuressOpenInProgress>>false</IfDuressOpenInProgress>
    <IfDelayedOpenInProgress>>false</IfDelayedOpenInProgress>
    <IfBoltRetracted>>false</IfBoltRetracted>
    <IfShelvedOpenInProgress>>false</IfShelvedOpenInProgress>
    <IfLockOutInProgress>>false</IfLockOutInProgress>
    <IfBoltExtendedDoorOpen>>false</IfBoltExtendedDoorOpen>
    <IfRemoteDisable>>false</IfRemoteDisable>
  </LockRemoteStatusRecord>
  <LockFLMModeActivationStatus>ActivateSingleUser_PendingClose</LockFLMModeActivationStatus>
  <IfLockFLMModeActive>true</IfLockFLMModeActive>
  <LockRouteModeActivationStatus>ActivateSingleUser</LockRouteModeActivationStatus>

```



```

<IfLockRouteModeActive>true</IfLockRouteModeActive>
<LockBankModeActivationStatus>ActivateSingleUser</LockBankModeActivationStatus>
<IfLockBankModeActive>true</IfLockBankModeActive>
<LockOpeningOdometer>105</LockOpeningOdometer>
<IfAuditStatusWrapped>>false</IfAuditStatusWrapped>
<AuditEventCount>410</AuditEventCount>
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error</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Reading Housekeeping Record</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
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  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Key-type mismatch Error</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
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  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Last Audit record not an 'Open'
Audit</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
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<IfRemoteAdministrationEnabled>invalid</IfRemoteAdministrationEnabled>
</LockRemoteStatusRecord>
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  <ProductCode>2</ProductCode>
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  <MinorVersion>0</MinorVersion>
  <BuildVersion>824</BuildVersion>
  <SerialNumber>001000107</SerialNumber>
  <IfDuressOpenInProgress>>false</IfDuressOpenInProgress>
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  <IfBoltRetracted>>false</IfBoltRetracted>
  <IfShelvedOpenInProgress>>false</IfShelvedOpenInProgress>
  <IfLockOutInProgress>>false</IfLockOutInProgress>
  <IfBoltExtendedDoorOpen>>false</IfBoltExtendedDoorOpen>
  <IfRemoteDisable>>false</IfRemoteDisable>
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  <IfAuditStatusWrapped>>false</IfAuditStatusWrapped>
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error</LockErrorTransaction>
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    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>Reading Housekeeping Record</LockErrorTransaction>
      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>

```



```

        <LockErrorMode>TM Key Error</LockErrorMode>
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    </LockRemoteStatusErrorHistoryRecord>
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    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
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        <LockErrorMode>Lock</LockErrorMode>
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    <LockRemoteStatusErrorHistoryRecord>
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Audit</LockErrorTransaction>
        <LockErrorMode>Lock</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
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<AuditEventOdometer>0</AuditEventOdometer>
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<IfBoltWorksSensorConnectedOnOpen>invalid</IfBoltWorksSensorConnectedOnOpen>
<IfRemoteAdministrationEnabled>invalid</IfRemoteAdministrationEnabled>
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    <LockKeyBoardStatus>KeyBoardPresent_NoKeysHeld</LockKeyBoardStatus>
    <LastKeyPressed>0</LastKeyPressed>
    <LockDisplayStatus>DisplaySuccessfullyCleared</LockDisplayStatus>
    <LockCamPositionSensorStatus>CamSwitchIsClosed</LockCamPositionSensorStatus>
    <SuperCapVoltage>5.8</SuperCapVoltage>
    <ClockBatteryVoltage>3.076</ClockBatteryVoltage>
    <LockDoorSensorStatus>DoorSensorNotConnected</LockDoorSensorStatus>
    <LockDisableInputStatus>LockEnabled</LockDisableInputStatus>
    <LockPowerSupplyStatus>PowerSupplyGood</LockPowerSupplyStatus>
    <LockSolenoidKickerCapStatus>KickerCapIsCharged</LockSolenoidKickerCapStatus>
    <LockChangeKeyStatus>ChangeKeyIsNotPresent</LockChangeKeyStatus>
    <LockGPIO1Status>LineHigh</LockGPIO1Status>
    <LockGPIO2Status>LineHigh</LockGPIO2Status>
    <LockOnboardMemoryStatus>MemoryResponding</LockOnboardMemoryStatus>
    <LockOnboardClockStatus>ClockRespondingRunning</LockOnboardClockStatus>

<LockOnboardClockInterruptLineStatus>NoClockInterrupt</LockOnboardClockInterruptLineStatus>
    <LockOnboardClockDateTime>2012-08-28T14:29:13Z</LockOnboardClockDateTime>
    <LockOnboardClockDateTimeRead>2012-08-
28T14:28:57.3674282Z</LockOnboardClockDateTimeRead>
    <Temperature>23.5</Temperature>
    <VCCSystemVoltage>3.3</VCCSystemVoltage>
    <MemoryFormatVersion>0</MemoryFormatVersion>
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    <LockBreakOutBoxStatus>invalid</LockBreakOutBoxStatus>
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    <LockBoltExtendedSwitchStatus>invalid</LockBoltExtendedSwitchStatus>
    <LockBoltWorksExtendedSensorStatus>invalid</LockBoltWorksExtendedSensorStatus>
    <LockAlternateChangeKeyStatus>invalid</LockAlternateChangeKeyStatus>
    <LockAuxiliarySerialIO_Num0_Status>invalid</LockAuxiliarySerialIO_Num0_Status>
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    <LockRemoteModeStatusRecord>
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        <LockMaximumUserCount>0</LockMaximumUserCount>
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        <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
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        <OpeningFirstUserKeyInformation>
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            <KeyID>00000046107A</KeyID>
        </OpeningFirstUserKeyInformation>
        <OpeningFirstUserTimestamp>2012-08-28T14:14:38Z</OpeningFirstUserTimestamp>
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        <OpeningSecondUserKeyInformation/>
        <OpeningSecondUserTimestamp/>
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        <IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
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        <ClosingUserKeyInformation>

```

```

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    <LockMaximumUserCount>0</LockMaximumUserCount>
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    <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
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        <KeyID>00000046107A</KeyID>
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    <ClosingUserKeyInformation/>
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<LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-01-23T15:53:55.31Z</StartDate>
    <LastUsedDate>2012-08-28T14:28:58.339Z</LastUsedDate>
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    <LockMode>F</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
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    <IfForcedClosed>false</IfForcedClosed>
    <IfRoute1Issued>false</IfRoute1Issued>
    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
    <Seal>26701</Seal>
    <PreviousSeal>5806</PreviousSeal>
    <RouteSeal1>26701</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>5806</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
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  <LockName>Gen2Lock_1000107</LockName>
  <LockMode>F</LockMode>
  <RouteName/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <SerialNumber>001000107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName>AA001</GroupName>
  <Description>Gen2Lock_1000107 Lock Event: Confirm FLM Mode Dispatched Call
Closed</Description>
  <auditPK>db2b82ba-e20c-4dbd-8d23-9004ae4a9fdd</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>159</LockTransactionCategory>
  <LockTransactionType>0</LockTransactionType>
  <LockTransactionEvent>6</LockTransactionEvent>
  <LockCloseSeal>0000</LockCloseSeal>
  <LockFullSealCount>1</LockFullSealCount>
  <IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
  <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>true</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime/>
  <LockCloseTime>2012-08-28T14:29:15Z</LockCloseTime>
  <IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
  <LockAuditIndex>0</LockAuditIndex>
  <DatabaseLockAuditIndex>411</DatabaseLockAuditIndex>
  <ClientIPAddress/>
  <LockIPAddress>10.108.6.121:35005</LockIPAddress>
</LockEventAuditRecord>
</RESPONSE_LOCK_REMOTE_EVALUATE_EVENT>

```


2.10.4 Remote Lock Management XML File Transactions - Activate Lock Across Network

CenTran Programming Reference Manual

This transaction is used to activate a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to activate.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to activate. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.
- **Activate Lock Serial Record** - Specifies the information to used activate the lock.

Activate Lock Serial Record:

- **Lock Name** - Lock name and mode is a unique identifier for a lock record. The lock name can be up to 64 characters. This is a required field.
- **Lock Mode** - The lock mode identifies a mode on a lock. This is a required field. It can be one of the following values:
 - **F** - This indicates FLM (First Line Maintenance) mode. This is a dispatched lock mode, supporting a single dispatch at a time. FLM lock users are dispatched a one time combination to open the lock with a specific electronic key.
 - **R** - This indicates Route mode. This is a dispatched lock mode, supporting up to three dispatches at a time. Route lock users are dispatched a one time combination to open the lock with a specific electronic key.
 - **B** - This indicates Bank mode. This lock mode uses a table of up to 100 bank mode users for a Cencon Gen 2 lock. Bank lock users must be added to the lock user table to be allowed to open the lock. Each Bank lock user can set their own fixed combination for opening the lock.
- **Serial Number** - This is the serial number of the lock being activated. This serial number must match the lock being activated, or the activation will not be permitted. This value can be retrieved from the lock by remote communications or by doing a #2 keypad command at the lock. This is a required field. Serial number and mode is another unique identifier for a lock record.
- **If Dual Mode** - This flag indicates if the lock requires a single user or dual users to open the lock. This setting can be changed after lock activation using the Lock Remote Set Single Dual Access transaction. This is a required field. Possible values for this field are 1, true, 0, false.
- **Customer ID** - This is a 64 character field to identify a customer ID. The customer ID is a unique identifier for a customer record in the Cencon database. This field can be left blank. If this value is set, it must match a valid Customer ID entry in the Cencon database Customer table.
- **ATM Serial Number** - This is a 64 character field to identify an ATM serial number. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Description 1** - This is a 40 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Description 2** - This is a 40 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Description 3** - This is a 40 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Description 4** - This is a 40 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **User Defined 1** - This is a 64 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **User Defined 2** - This is a 64 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **User Defined 3** - This is a 64 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **User Defined 4** - This is a 64 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Region** - This is a 64 character field to associate a region with the lock and mode. The region name must match an existing region record in the Cencon database. If region control is set to active for the Cencon system, then region is used to restrict what Cencon/CenTran dispatch users can view the lock in reports. It also restricts what lock users can be dispatched or assigned to the lock. If an FLM or Route lock user is associated with a different region, then they are not permitted to be dispatched to the lock. If a Bank lock user is associated with a different region, then they are not permitted to be added to the lock user table for Bank mode. This is an optional field, however if region control is active you will need to specify a region.
- **Service Branch** - This is a 64 character field to identify a service branch for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Address 1** - This is a 128 character field to allow an address to be set for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Address 2** - This is a 128 character field to allow an address to be set for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **City** - This is a 64 character field to allow a city to be set for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **State** - This is a 32 character field to allow a state to be set for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **ZIP** - This is a 16 character field to allow a postal service ZIP code to be set for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Country** - This is a 32 character field to allow a country to be set for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Time Zone ID** - This is a 64 character field to set the time zone ID for the lock. This field can be left blank. If this field is populated, the time zone ID must exactly match an operating system time zone ID, or an error will occur. If this field is left blank, the CenTran server local time zone will automatically be used. This field is used to identify the time zone ID for the lock. The lock time zone ID is used to generate the daylight savings time transition table for the lock when the lock time is set. It is used for the lock to determine local time depending on the current daylight savings time offset. This affects lock user time windows, if any, in relation to the current local time. The daylight savings time transition table is initialized by lock

mode, so it can be different for each lock mode. The lock daylight savings time transition table covers a period of 20 years. It is updated whenever the lock time is set. The lock daylight savings time transition table is generated from time zone information from the operating system, so if the operating system is out of date, the daylight savings time settings may be affected.

- **Bank Branch Name** - The bank branch name only applies to bank mode of the lock. If you are activating the bank mode of a lock, then this field must be set to match an existing Bank Branch in the Cencon database. The bank mode users you assign to the lock must also be assigned to the same bank branch as the lock.
- **Bank Mode User Name Array** - The bank mode user name array only applies to bank mode of the lock. The bank mode user name array is an array of user names for bank mode lock users to be assigned the the lock. If you are activating a bank mode lock, you must provide at least two users to be initially assigned to the lock. The user names specified must match valid bank mode lock user keys that are assigned to the same bank branch as the lock. If region control is active, then the bank mode lock users must also be assigned to the same region as the lock.
- **Bank Open Delay** - The bank open delay only applies to bank mode of the lock. This is the number of minutes (from 1 to 99) that a user will have to wait, after entering a combination and inserting the Personal Identifier Key before the lock will open. If no Time Delay to Open is desired, set this field to 0. It is an optional field, and will default to 0 (no delay) if not set. The Bank Open Delay and Bank Open Window values must be either both zero or both non-zero.
- **Bank Open Window** - The bank open window only applies to bank mode of the lock. The second part of activating with Time Delay is the Window to Open. This specifies the amount of time, in minutes (from 1 to 99), in which a user must re-insert their key to open the lock after the Time Delay has expired. If the lock is not opened before the Window to Open elapses, the lock resets and the combination(s) and key(s) must be repeated, the time delay elapsed and then the lock opened. It is an optional field, and will default to 0 (no delay) if not set. The Bank Open Delay and Bank Open Window values must be either both zero or both non-zero.

Transaction information returned:

Success:

- Result record indicating success
- Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Note

The Cencon Gen 2 lock supports daylight savings time changes through the use of a time offset transition table. This table contains up to 40 entries, which is sufficient for 20 years of operation with two transitions a year. This table is initialized for each lock mode when the lock mode is activated. It is also updated when the time is updated on the lock.

The daylight savings time transition table for the Cencon Gen 2 lock is generated from the selected time zone, using daylight saving time information from the host computer. If the time zone ID is not specified when activating a lock, then the currently set time zone on the host computer is used.

The following is a table of available time zone IDs for the Windows operating system using English. Other language installations may make use of different language time zone IDs.

Windows Time Zone IDs:

UTC Offset	Time Zone ID
-12:00:00	Dateline Standard Time
-11:00:00	UTC-11
-10:00:00	Hawaiian Standard Time
-09:00:00	Alaskan Standard Time
-08:00:00	Pacific Standard Time (Mexico)
-08:00:00	Pacific Standard Time
-07:00:00	US Mountain Standard Time
-07:00:00	Mountain Standard Time (Mexico)
-07:00:00	Mountain Standard Time
-06:00:00	Central America Standard Time
-06:00:00	Central Standard Time
-06:00:00	Central Standard Time (Mexico)
-06:00:00	Canada Central Standard Time
-05:00:00	SA Pacific Standard Time
-05:00:00	Eastern Standard Time
-05:00:00	US Eastern Standard Time
-04:30:00	Venezuela Standard Time
-04:00:00	Paraguay Standard Time
-04:00:00	Atlantic Standard Time
-04:00:00	Central Brazilian Standard Time
-04:00:00	SA Western Standard Time
-04:00:00	Pacific SA Standard Time
-03:30:00	Newfoundland Standard Time

-03:00:00	E. South America Standard Time
-03:00:00	Argentina Standard Time
-03:00:00	SA Eastern Standard Time
-03:00:00	Greenland Standard Time
-03:00:00	Montevideo Standard Time
-03:00:00	Bahia Standard Time
-02:00:00	UTC-02
-02:00:00	Mid-Atlantic Standard Time
-01:00:00	Azores Standard Time
-01:00:00	Cape Verde Standard Time
00:00:00	Morocco Standard Time
00:00:00	UTC
00:00:00	GMT Standard Time
00:00:00	Greenwich Standard Time
01:00:00	W. Europe Standard Time
01:00:00	Central Europe Standard Time
01:00:00	Romance Standard Time
01:00:00	Central European Standard Time
01:00:00	W. Central Africa Standard Time
01:00:00	Namibia Standard Time
02:00:00	Jordan Standard Time
02:00:00	GTB Standard Time
02:00:00	Middle East Standard Time
02:00:00	Egypt Standard Time
02:00:00	Syria Standard Time
02:00:00	E. Europe Standard Time
02:00:00	South Africa Standard Time
02:00:00	FLE Standard Time
02:00:00	Turkey Standard Time
02:00:00	Israel Standard Time
02:00:00	Kaliningrad Standard Time
02:00:00	Libya Standard Time
03:00:00	Arabic Standard Time
03:00:00	Arab Standard Time
03:00:00	Belarus Standard Time
03:00:00	Russian Standard Time
03:00:00	E. Africa Standard Time
03:30:00	Iran Standard Time
04:00:00	Arabian Standard Time
04:00:00	Azerbaijan Standard Time
04:00:00	Russia Time Zone 3
04:00:00	Mauritius Standard Time
04:00:00	Georgian Standard Time
04:00:00	Caucasus Standard Time
04:30:00	Afghanistan Standard Time
05:00:00	West Asia Standard Time
05:00:00	Ekaterinburg Standard Time
05:00:00	Pakistan Standard Time
05:30:00	India Standard Time
05:30:00	Sri Lanka Standard Time
05:45:00	Nepal Standard Time
06:00:00	Central Asia Standard Time
06:00:00	Bangladesh Standard Time
06:00:00	N. Central Asia Standard Time
06:30:00	Myanmar Standard Time
07:00:00	SE Asia Standard Time
07:00:00	North Asia Standard Time
08:00:00	China Standard Time
08:00:00	North Asia East Standard Time
08:00:00	Singapore Standard Time
08:00:00	W. Australia Standard Time
08:00:00	Taipei Standard Time
08:00:00	Ulaanbaatar Standard Time
09:00:00	Tokyo Standard Time
09:00:00	Korea Standard Time
09:00:00	Yakutsk Standard Time
09:30:00	Cen. Australia Standard Time
09:30:00	AUS Central Standard Time
10:00:00	E. Australia Standard Time
10:00:00	AUS Eastern Standard Time
10:00:00	West Pacific Standard Time
10:00:00	Tasmania Standard Time
10:00:00	Magadan Standard Time
10:00:00	Vladivostok Standard Time
11:00:00	Russia Time Zone 10

11:00:00	Central Pacific Standard Time
12:00:00	Russia Time Zone 11
12:00:00	New Zealand Standard Time
12:00:00	UTC+12
12:00:00	Fiji Standard Time
12:00:00	Kamchatka Standard Time
13:00:00	Tonga Standard Time
13:00:00	Samoa Standard Time
14:00:00	Line Islands Standard Time

Example - Activate FLM Mode

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_ACTIVATE>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <ActivateLockSerialRecord>
    <Country>USA</Country>
    <ZIP>40508-1200</ZIP>
    <State>Kentucky</State>
    <City>Lexington</City>
    <Address1>749 West Short Street</Address1>
    <ServiceBranch>North Service Branch</ServiceBranch>
    <Region>KENTUCKY</Region>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <CustomerID>North Bank</CustomerID>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>1000107</SerialNumber>
    <LockMode>F</LockMode>
    <LockName>Gen2Lock 1000107</LockName>
  </ActivateLockSerialRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_ACTIVATE>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_ACTIVATE>
  <TRANSACTION_LOCK_REMOTE_ACTIVATE>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <ActivateLockSerialRecord>
      <Country>USA</Country>
      <ZIP>40508-1200</ZIP>
      <State>Kentucky</State>
      <City>Lexington</City>
      <Address1>749 West Short Street</Address1>
      <ServiceBranch>North Service Branch</ServiceBranch>
      <Region>KENTUCKY</Region>
      <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
      <CustomerID>North Bank</CustomerID>
      <IfDualMode>>false</IfDualMode>
      <SerialNumber>1000107</SerialNumber>
      <LockMode>F</LockMode>
      <LockName>Gen2Lock 1000107</LockName>
    </ActivateLockSerialRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_ACTIVATE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock mode activated successfully.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-10-18T19:42:49.541Z</StartDate>
    <LastUsedDate/>
    <CustomerNumber>964592</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>1</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>21260</Seal>
    <PreviousSeal>0</PreviousSeal>
    <RouteSeal1>0</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
```

```

<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>0</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1/>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1/>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1/>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Service Branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>21260</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>

```



```
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</RESPONSE_LOCK_REMOTE_ACTIVATE>
```

Example - Activate Bank Mode

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_ACTIVATE>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <ActivateLockSerialRecord>
    <BankOpenWindow>5</BankOpenWindow>
    <BankOpenDelay>5</BankOpenDelay>
    <BankModeUserNameArray>
      <UserID>BU01</UserID>
      <UserID>BU02</UserID>
      <UserID>BU03</UserID>
      <UserID>BU04</UserID>
      <UserID>BU05</UserID>
    </BankModeUserNameArray>
    <BankBranchName>North Bank Branch</BankBranchName>
    <TimeZoneID>Eastern Standard Time</TimeZoneID>
    <Country>USA</Country>
    <ZIP>40508-1200</ZIP>
    <State>Kentucky</State>
    <City>Lexington</City>
    <Address1>749 West Short Street</Address1>
    <ServiceBranch>North Bank Service</ServiceBranch>
    <Region>KENTUCKY</Region>
    <UserDefined1>ATM Model #3</UserDefined1>
    <Description2>Serviced by Fred and John</Description2>
    <Description1>Truck #1</Description1>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <CustomerID>North Bank</CustomerID>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>1000107</SerialNumber>
    <LockMode>B</LockMode>
    <LockName>Gen2Lock 1000107</LockName>
  </ActivateLockSerialRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_ACTIVATE>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_ACTIVATE>
  <TRANSACTION_LOCK_REMOTE_ACTIVATE>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <ActivateLockSerialRecord>
      <BankOpenWindow>5</BankOpenWindow>
      <BankOpenDelay>5</BankOpenDelay>
      <BankModeUserNameArray>
        <UserID>BU01</UserID>
        <UserID>BU02</UserID>
        <UserID>BU03</UserID>
        <UserID>BU04</UserID>
        <UserID>BU05</UserID>
      </BankModeUserNameArray>
      <BankBranchName>North Bank Branch</BankBranchName>
      <TimeZoneID>Eastern Standard Time</TimeZoneID>
      <Country>USA</Country>
      <ZIP>40508-1200</ZIP>
      <State>Kentucky</State>
      <City>Lexington</City>
      <Address1>749 West Short Street</Address1>
      <ServiceBranch>North Bank Service</ServiceBranch>
      <Region>KENTUCKY</Region>
      <UserDefined1>ATM Model #3</UserDefined1>
      <Description2>Serviced by Fred and John</Description2>
      <Description1>Truck #1</Description1>
      <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
      <CustomerID>North Bank</CustomerID>
      <IfDualMode>false</IfDualMode>
      <SerialNumber>1000107</SerialNumber>
      <LockMode>B</LockMode>
      <LockName>Gen2Lock 1000107</LockName>
    </ActivateLockSerialRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_ACTIVATE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock mode activated successfully.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
```

```
<StartDate>2012-10-19T12:32:58.56Z</StartDate>
<LastUsedDate/>
<CustomerNumber>424853</CustomerNumber>
<LockMode>B</LockMode>
<IfDualMode>>false</IfDualMode>
<SerialNumber>001000107</SerialNumber>
<AuditCount>1</AuditCount>
<IfLockOpen>>false</IfLockOpen>
<IfForcedClosed>>false</IfForcedClosed>
<IfRoute1Issued>>false</IfRoute1Issued>
<IfRoute2Issued>>false</IfRoute2Issued>
<IfRoute3Issued>>false</IfRoute3Issued>
<IfNoAlarm>>false</IfNoAlarm>
<IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
<IfActivationCall>>false</IfActivationCall>
<IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
<Seal>0</Seal>
<PreviousSeal>0</PreviousSeal>
<RouteSeal1>0</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>0</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>Truck #1</Description1>
<Description2>Serviced by Fred and John</Description2>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1>ATM Model #3</UserDefined1>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1/>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1/>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1/>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
```

```
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>5</BankOpenDelay>
<BankOpenWindow>5</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<BankModeUserNameArray>
  <UserID>BU01</UserID>
  <UserID>BU02</UserID>
  <UserID>BU03</UserID>
  <UserID>BU04</UserID>
  <UserID>BU05</UserID>
</BankModeUserNameArray>
</LockRecord>
</RESPONSE_LOCK_REMOTE_ACTIVATE>
```

2.10.5 Remote Lock Management XML File Transactions - Add Users To Bank Mode Lock Across Network

CenTran Programming Reference Manual

This transaction is used to add users to the bank mode of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to add users to.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to add users to. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to add users to.
- **Lock Mode** - This is the lock mode of the lock that you are going to add users to. This transaction currently only applies to bank mode locks.
- **Bank Mode User Name Array** - This is an array of user IDs specifying what bank mode lock users to add to the lock. These must be valid existing bank mode lock users in the Cencon database. They must be assigned to the same bank branch as the lock. If region control is active, they must be assigned to the same region as the lock. They must not already be assigned to the lock. Additionally, the bank mode lock user table must have sufficient space for the added users. The Cencon Gen 2 bank mode can have up to 100 users assigned to it.
- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_ADD_USERS>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <BankModeUserNameArray>
    <UserID>BU06</UserID>
    <UserID>BU07</UserID>
    <UserID>BU1000</UserID>
  </BankModeUserNameArray>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_ADD_USERS>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_ADD_USERS>
  <TRANSACTION_LOCK_REMOTE_ADD_USERS>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>B</LockMode>
    <BankModeUserNameArray>
      <UserID>BU06</UserID>
      <UserID>BU07</UserID>
      <UserID>BU1000</UserID>
    </BankModeUserNameArray>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_ADD_USERS>
  <ResultRecord>
    <Result>Success</Result>
```

```

<ErrorCode>RC_OK</ErrorCode>
<IfRetryValid>>false</IfRetryValid>
<Description>Users added to the lock successfully.</Description>
</ResultRecord>
<LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-10-19T12:32:58.56Z</StartDate>
  <LastUsedDate>2012-10-19T12:41:14.102Z</LastUsedDate>
  <CustomerNumber>424853</CustomerNumber>
  <LockMode>B</LockMode>
  <IfDualMode>>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
  <AuditCount>1</AuditCount>
  <IfLockOpen>>false</IfLockOpen>
  <IfForcedClosed>>false</IfForcedClosed>
  <IfRoute1Issued>>false</IfRoute1Issued>
  <IfRoute2Issued>>false</IfRoute2Issued>
  <IfRoute3Issued>>false</IfRoute3Issued>
  <IfNoAlarm>>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
  <Seal>0</Seal>
  <PreviousSeal>0</PreviousSeal>
  <RouteSeal1>0</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>0</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName/>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1>Truck #1</Description1>
  <Description2>Serviced by Fred and John</Description2>
  <Description3/>
  <Description4/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1>ATM Model #3</UserDefined1>
  <UserDefined2/>
  <UserDefined3/>
  <UserDefined4/>
  <Region>KENTUCKY</Region>
  <IfLastRoute1Issued>>false</IfLastRoute1Issued>
  <IfLastRoute2Issued>>false</IfLastRoute2Issued>
  <IfLastRoute3Issued>>false</IfLastRoute3Issued>
  <User1ID1/>
  <User1ID2/>
  <User1ID3/>
  <User2ID1/>
  <User2ID2/>
  <User2ID3/>
  <RouteName1/>
  <RouteName2/>
  <RouteName3/>
  <DispatcherID1/>
  <DispatcherID2/>
  <DispatcherID3/>
  <OpenTime1/>
  <OpenTime2/>
  <OpenTime3/>
  <CloseTime1/>
  <CloseTime2/>
  <CloseTime3/>
  <IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
  <IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
  <IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
  <PreviousUser1ID1/>
  <PreviousUser1ID2/>
  <PreviousUser1ID3/>
  <PreviousUser2ID1/>
  <PreviousUser2ID2/>
  <PreviousUser2ID3/>
  <PreviousRouteName1/>
  <PreviousRouteName2/>
  <PreviousRouteName3/>
  <PreviousOpenTime1/>
  <PreviousOpenTime2/>
  <PreviousOpenTime3/>
  <PreviousCloseTime1/>

```

```

<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>5</BankOpenDelay>
<BankOpenWindow>5</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<BankModeUserNameArray>
  <UserID>BU01</UserID>
  <UserID>BU02</UserID>
  <UserID>BU03</UserID>
  <UserID>BU04</UserID>
  <UserID>BU05</UserID>
  <UserID>BU06</UserID>
  <UserID>BU07</UserID>
  <UserID>BU1000</UserID>
</BankModeUserNameArray>
</LockRecord>
</RESPONSE_LOCK_REMOTE_ADD_USERS>

```

2.10.6 Remote Lock Management XML File Transactions - Delete Users From Bank Mode Lock Across Network

CenTran Programming Reference Manual

This transaction is used to delete users from the bank mode of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to delete users from.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to delete users from. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to delete users from.
- **Lock Mode** - This is the lock mode of the lock that you are going to delete users from. This transaction currently only applies to bank mode locks.
- **Bank Mode User Name Array** - This is an array of user IDs specifying what bank mode lock users to delete from the lock. These must be valid existing bank mode lock users in the Cencon database. They must be assigned to the lock. Additionally, the Cencon Gen 2 lock is required to have two bank mode users set up. It is not permitted to delete the last two users from the Cencon Gen 2 lock bank mode.
- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_DELETE_USERS>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock_1000107</LockName>
  <LockMode>B</LockMode>
  <BankModeUserNameArray>
    <UserID>BU02</UserID>
    <UserID>BU03</UserID>
    <UserID>BU04</UserID>
  </BankModeUserNameArray>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_DELETE_USERS>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_DELETE_USERS>
  <TRANSACTION_LOCK_REMOTE_DELETE_USERS>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2Lock_1000107</LockName>
    <LockMode>B</LockMode>
    <BankModeUserNameArray>
      <UserID>BU02</UserID>
      <UserID>BU03</UserID>
      <UserID>BU04</UserID>
    </BankModeUserNameArray>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_DELETE_USERS>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
```



```

<IfRetryValid>false</IfRetryValid>
<Description>Users removed from the lock successfully.</Description>
</ResultRecord>
<LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-10-19T12:32:58.56Z</StartDate>
  <LastUsedDate>2012-10-19T12:44:12.595Z</LastUsedDate>
  <CustomerNumber>424853</CustomerNumber>
  <LockMode>B</LockMode>
  <IfDualMode>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
  <AuditCount>1</AuditCount>
  <IfLockOpen>false</IfLockOpen>
  <IfForcedClosed>false</IfForcedClosed>
  <IfRoute1Issued>false</IfRoute1Issued>
  <IfRoute2Issued>false</IfRoute2Issued>
  <IfRoute3Issued>false</IfRoute3Issued>
  <IfNoAlarm>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
  <Seal>0</Seal>
  <PreviousSeal>0</PreviousSeal>
  <RouteSeal1>0</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>0</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName/>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1>Truck #1</Description1>
  <Description2>Serviced by Fred and John</Description2>
  <Description3/>
  <Description4/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1>ATM Model #3</UserDefined1>
  <UserDefined2/>
  <UserDefined3/>
  <UserDefined4/>
  <Region>KENTUCKY</Region>
  <IfLastRoute1Issued>false</IfLastRoute1Issued>
  <IfLastRoute2Issued>false</IfLastRoute2Issued>
  <IfLastRoute3Issued>false</IfLastRoute3Issued>
  <User1ID1/>
  <User1ID2/>
  <User1ID3/>
  <User2ID1/>
  <User2ID2/>
  <User2ID3/>
  <RouteName1/>
  <RouteName2/>
  <RouteName3/>
  <DispatcherID1/>
  <DispatcherID2/>
  <DispatcherID3/>
  <OpenTime1/>
  <OpenTime2/>
  <OpenTime3/>
  <CloseTime1/>
  <CloseTime2/>
  <CloseTime3/>
  <IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
  <IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
  <IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
  <PreviousUser1ID1/>
  <PreviousUser1ID2/>
  <PreviousUser1ID3/>
  <PreviousUser2ID1/>
  <PreviousUser2ID2/>
  <PreviousUser2ID3/>
  <PreviousRouteName1/>
  <PreviousRouteName2/>
  <PreviousRouteName3/>
  <PreviousOpenTime1/>
  <PreviousOpenTime2/>
  <PreviousOpenTime3/>
  <PreviousCloseTime1/>
  <PreviousCloseTime2/>

```

```
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>5</BankOpenDelay>
<BankOpenWindow>5</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<BankModeUserNameArray>
  <UserID>BU01</UserID>
  <UserID>BU05</UserID>
  <UserID>BU06</UserID>
  <UserID>BU07</UserID>
  <UserID>BU1000</UserID>
</BankModeUserNameArray>
</LockRecord>
</RESPONSE_LOCK_REMOTE_DELETE_USERS>
```

2.10.7 Remote Lock Management XML File Transactions - Shelf Lock Across Network

CenTran Programming Reference Manual

This transaction is used to shelve a mode of a Cencon Gen 2 or higher lock that is connected to a network IP address. This transaction only shelves the specified lock mode. If other modes of the lock are active, they will not be affected by this transaction and will remain active. If all three modes of the lock are active, you will have to call this transaction three times to completely shelve all modes of the lock.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to shelve.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to shelve. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to shelve.
- **Lock Mode** - This is the lock mode of the lock that you are going to shelve.
- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success
- Shelved Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Note

If the Cencon configuration option to require a change key be present in the lock for remote shelve is set, you will not be able to remotely shelve the lock across a remote connection without first having someone present to open the lock and insert a change key. In the case of the Cencon Gen 2 swing bolt lock, you can alternatively open the lock and enter #50 at the lock to allow remote administration of the lock. Refer to the Cencon application Change Configuration Settings dialog to set this configuration option in the Cencon database.

The error code **RC_ERR_SHELVE_LOCK_SERIAL_CHANGE_KEY_NOT_PRESENT** will be returned by CenTran if this error occurs.

Example

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_SHELVE>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_SHELVE>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_SHELVE>
  <TRANSACTION_LOCK_REMOTE_SHELVE>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>B</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_SHELVE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock mode shelved successfully.</Description>
```

```

</ResultRecord>
<LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>D</RecordType>
  <StartDate>2012-10-19T12:32:58.56Z</StartDate>
  <LastUsedDate>2012-10-19T12:53:11.513Z</LastUsedDate>
  <CustomerNumber>424853</CustomerNumber>
  <LockMode>B</LockMode>
  <IfDualMode>>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
  <AuditCount>1</AuditCount>
  <IfLockOpen>>false</IfLockOpen>
  <IfForcedClosed>>false</IfForcedClosed>
  <IfRoute1Issued>>false</IfRoute1Issued>
  <IfRoute2Issued>>false</IfRoute2Issued>
  <IfRoute3Issued>>false</IfRoute3Issued>
  <IfNoAlarm>>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
  <Seal>0</Seal>
  <PreviousSeal>0</PreviousSeal>
  <RouteSeal1>0</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>0</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName/>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1>Truck #1</Description1>
  <Description2>Serviced by Fred and John</Description2>
  <Description3/>
  <Description4/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1>ATM Model #3</UserDefined1>
  <UserDefined2/>
  <UserDefined3/>
  <UserDefined4/>
  <Region>KENTUCKY</Region>
  <IfLastRoute1Issued>>false</IfLastRoute1Issued>
  <IfLastRoute2Issued>>false</IfLastRoute2Issued>
  <IfLastRoute3Issued>>false</IfLastRoute3Issued>
  <User1ID1/>
  <User1ID2/>
  <User1ID3/>
  <User2ID1/>
  <User2ID2/>
  <User2ID3/>
  <RouteName1/>
  <RouteName2/>
  <RouteName3/>
  <DispatcherID1/>
  <DispatcherID2/>
  <DispatcherID3/>
  <OpenTime1/>
  <OpenTime2/>
  <OpenTime3/>
  <CloseTime1/>
  <CloseTime2/>
  <CloseTime3/>
  <IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
  <IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
  <IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
  <PreviousUser1ID1/>
  <PreviousUser1ID2/>
  <PreviousUser1ID3/>
  <PreviousUser2ID1/>
  <PreviousUser2ID2/>
  <PreviousUser2ID3/>
  <PreviousRouteName1/>
  <PreviousRouteName2/>
  <PreviousRouteName3/>
  <PreviousOpenTime1/>
  <PreviousOpenTime2/>
  <PreviousOpenTime3/>
  <PreviousCloseTime1/>
  <PreviousCloseTime2/>
  <PreviousCloseTime3/>
  <ServiceBranch>North Bank Service</ServiceBranch>

```

```
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>5</BankOpenDelay>
<BankOpenWindow>5</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Central Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</RESPONSE_LOCK_REMOTE_SHELVES>
```

2.10.8 Remote Lock Management XML File Transactions - Set Lock Time Across Network

CenTran Programming Reference Manual

This transaction is used to set the lock time for a Cencon Gen 2 or higher lock that is connected to a network IP address, or the lock time and time zone daylight savings time transition table for a mode of such a lock. This transaction only sets the daylight savings time transition table for the specified lock mode. If other modes of the lock are active and you want to set the daylight savings time transition table for them as well, you will need to call this transaction for them also. If the lock name and mode are not specified, only the lock time will be set for the lock, and any specified time zone id will be ignored.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to set lock time and time zone daylight savings time transition table.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to set lock time and time zone daylight savings time transition table. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name and Mode** - Specifies the name and mode of the lock for which you are going to set the lock time and time zone daylight savings time transition table. This structure can be omitted. If this structure is present, the name and mode must match the lock at the specified network address. If this structure is omitted, only the time will be set for the lock.
 - **Lock Name** - This is the lock name of the lock for which you are going to set the lock time and time zone daylight savings time transition table.
 - **Lock Mode** - This is the lock mode of the lock for which you are going to set the lock time and time zone daylight savings time transition table.
- **Time Zone ID** - This is a 64 character field to set the time zone ID for the lock. This field can be left blank. If this field is populated, the time zone ID must exactly match an operating system time zone ID, or an error will occur. If this field is left blank, the CenTran server local time zone will automatically be used. This field is used to identify the time zone ID for the lock. The lock time zone ID is used to generate the daylight savings time transition table for the lock when the lock time is set. It is used for the lock to determine local time depending on the current daylight savings time offset. This affects lock user time windows, if any, in relation to the current local time. The daylight savings time transition table is initialized by lock mode, so it can be different for each lock mode. The lock daylight savings time transition table covers a period of 20 years. It is updated whenever the lock time is set. The lock daylight savings time transition table is generated from time zone information from the operating system, so if the operating system is out of date, the daylight savings time settings may be affected.
- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Examples

Example Input Transaction With Lock Name and Mode Specified:

```
<TRANSACTION_LOCK_REMOTE_SET_TIME>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockNameAndMode>
    <LockName>Gen2Lock_1000107</LockName>
    <LockMode>B</LockMode>
  </LockNameAndMode>
  <TimeZoneID>Central_Standard_Time</TimeZoneID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_SET_TIME>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_SET_TIME>
  <TRANSACTION_LOCK_REMOTE_SET_TIME>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID>
```

```

    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockNameAndMode>
      <LockName>Gen2Lock 1000107</LockName>
      <LockMode>B</LockMode>
    </LockNameAndMode>
    <TimeZoneID>Central Standard Time</TimeZoneID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_SET_TIME>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock clock and daylight savings time table set successfully.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-10-19T12:32:58.56Z</StartDate>
    <LastUsedDate>2012-10-19T12:53:11.513Z</LastUsedDate>
    <CustomerNumber>424853</CustomerNumber>
    <LockMode>B</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>1</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>0</Seal>
    <PreviousSeal>0</PreviousSeal>
    <RouteSeal1>0</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1>Truck #1</Description1>
    <Description2>Serviced by Fred and John</Description2>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <UserDefined1>ATM Model #3</UserDefined1>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>>false</IfLastRoute3Issued>
    <User1ID1/>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>
    <RouteName3/>
    <DispatcherID1/>
    <DispatcherID2/>
    <DispatcherID3/>
    <OpenTime1/>
    <OpenTime2/>
    <OpenTime3/>
    <CloseTime1/>
    <CloseTime2/>
    <CloseTime3/>
    <IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
    <IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
    <IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
    <PreviousUser1ID1/>
    <PreviousUser1ID2/>
    <PreviousUser1ID3/>

```



```

<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>5</BankOpenDelay>
<BankOpenWindow>5</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Central Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<BankModeUserNameArray>
  <UserID>BU01</UserID>
  <UserID>BU05</UserID>
  <UserID>BU06</UserID>
  <UserID>BU07</UserID>
  <UserID>BU1000</UserID>
</BankModeUserNameArray>
</LockRecord>
</RESPONSE_LOCK_REMOTE_SET_TIME>

```

Example Input Transaction Without Lock Name and Mode Specified:

```

<TRANSACTION_LOCK_REMOTE_SET_TIME>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_SET_TIME>

```

Output Transaction:

```

<RESPONSE_LOCK_REMOTE_SET_TIME>
  <TRANSACTION_LOCK_REMOTE_SET_TIME>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_SET_TIME>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock clock set successfully.</Description>
  </ResultRecord>
</RESPONSE_LOCK_REMOTE_SET_TIME>

```

2.10.9 Remote Lock Management XML File Transactions - Set Lock Single Dual Access Across Network

CenTran Programming Reference Manual

This transaction is used to set single or dual access of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to set single or dual access.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to set single or dual access. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to set single or dual access.
- **Lock Mode** - This is the lock mode of the lock that you are going to set single or dual access.
- **If Dual Mode** - This is a flag indicating that the lock is to be set to dual mode. If this flag is 1 or true, then the lock will be set to dual user access. If this flag is 0 or false, then the lock will be set to single user access.
- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_SET_SINGLE_DUAL_ACCESS>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock_1000107</LockName>
  <LockMode>F</LockMode>
  <IfDualMode>true</IfDualMode>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_SET_SINGLE_DUAL_ACCESS>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_SET_SINGLE_DUAL_ACCESS>
  <TRANSACTION_LOCK_REMOTE_SET_SINGLE_DUAL_ACCESS>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2Lock_1000107</LockName>
    <LockMode>F</LockMode>
    <IfDualMode>true</IfDualMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_SET_SINGLE_DUAL_ACCESS>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock dual user access set successfully.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock_1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-10-18T19:42:49.54Z</StartDate>
    <LastUsedDate/>
    <CustomerNumber>964592</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>true</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
```

```
<AuditCount>1</AuditCount>
<IfLockOpen>>false</IfLockOpen>
<IfForcedClosed>>false</IfForcedClosed>
<IfRoute1Issued>>false</IfRoute1Issued>
<IfRoute2Issued>>false</IfRoute2Issued>
<IfRoute3Issued>>false</IfRoute3Issued>
<IfNoAlarm>>false</IfNoAlarm>
<IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
<IfActivationCall>>false</IfActivationCall>
<IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
<Seal>21260</Seal>
<PreviousSeal>0</PreviousSeal>
<RouteSeal1>0</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>0</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1/>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1/>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1/>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Service Branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>21260</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
```

```
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</RESPONSE_LOCK_REMOTE_SET_SINGLE_DUAL_ACCESS>
```

2.10.10 Remote Lock Management XML File Transactions - Set Lock Open Delay Window Across Network

CenTran Programming Reference Manual

This transaction is used to set the lock open delay and open time window of a bank mode Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to set the lock open delay and open time window.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to set the lock open delay and open time window. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to set the lock open delay and open time window.
- **Lock Mode** - This is the lock mode of the lock that you are going to set the lock open delay and open time window. This is currently always going to be bank mode. FLM and Route lock modes do not support an open delay and open time window.
- **Bank Open Delay** - This is an integer value representing the number of minutes of the bank mode open delay. If this value is set to 0 then the **Bank Open Window** must also be set to 0. If this value is set to some number of minutes greater than 0, then the **Bank Open Window** must also be set to some number of minutes greater than 0.

This delay will be applied to bank mode users attempting to open the lock. If the bank mode user enters a valid combination with a valid key and a bank mode open delay is set, then the lock will go into a wait state before allowing the same bank mode user to use their key again to open the lock. The **Bank Open Delay** defines how long in minutes the user has to wait before opening the lock.

- **Bank Open Window** - This is an integer value representing the number of minutes of the bank mode open window. If this value is set to 0 then the **Bank Open Delay** must also be set to 0. If this value is set to some number of minutes greater than 0, then the **Bank Open Delay** must also be set to some number of minutes greater than 0.

This open window will be applied to bank mode users attempting to open the lock. If the bank mode user enters a valid combination with a valid key and a bank mode open delay is set, then the lock will go into a wait state before allowing the same bank mode user to use their key again to open the lock. The **Bank Open Window** defines how long in minutes the user has to open the lock after the delay is complete.

- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_SET_OPEN_DELAY_WINDOW>
  <IPAddress>10.108.6.96:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock_1000107</LockName>
  <LockMode>B</LockMode>
  <BankOpenDelay>6</BankOpenDelay>
  <BankOpenWindow>3</BankOpenWindow>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_SET_OPEN_DELAY_WINDOW>
```

Output Transaction:

```

<RESPONSE LOCK_REMOTE_SET_OPEN_DELAY_WINDOW>
  <TRANSACTION_LOCK_REMOTE_SET_OPEN_DELAY_WINDOW>
    <IPAddress>10.108.6.96:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>B</LockMode>
    <BankOpenDelay>6</BankOpenDelay>
    <BankOpenWindow>3</BankOpenWindow>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_SET_OPEN_DELAY_WINDOW>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock open delay and open window set successfully.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2013-01-28T18:07:35.6Z</StartDate>
    <LastUsedDate/>
    <CustomerNumber>877983</CustomerNumber>
    <LockMode>B</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>1</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>0</Seal>
    <PreviousSeal>0</PreviousSeal>
    <RouteSeal1>0</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1>Truck #1</Description1>
    <Description2>Serviced by Fred and John</Description2>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <UserDefined1>ATM Model #3</UserDefined1>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>>false</IfLastRoute3Issued>
    <User1ID1/>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>
    <RouteName3/>
    <DispatcherID1/>
    <DispatcherID2/>
    <DispatcherID3/>
    <OpenTime1/>
    <OpenTime2/>
    <OpenTime3/>
    <CloseTime1/>
    <CloseTime2/>
    <CloseTime3/>
    <IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
    <IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>

```

```

<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>6</BankOpenDelay>
<BankOpenWindow>3</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.96</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<BankModeUserNameArray>
  <UserID>BU01</UserID>
  <UserID>BU02</UserID>
  <UserID>BU03</UserID>
  <UserID>BU04</UserID>
  <UserID>BU05</UserID>
  <UserID>BU06</UserID>
</BankModeUserNameArray>
</LockRecord>
</RESPONSE_LOCK_REMOTE_SET_OPEN_DELAY_WINDOW>

```


2.10.11 Remote Lock Management XML File Transactions - Resynchronize Lock Dispatching Across Network

CenTran Programming Reference Manual

This transaction is used to resynchronize dispatching of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to resynchronize dispatching.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to resynchronize dispatching. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to resynchronize dispatching.
- **Lock Mode** - This is the lock mode of the lock that you are going to resynchronize dispatching. This transaction currently only applies to FLM and Route mode locks.
- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_RESYNC_DISPATCHING>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_RESYNC_DISPATCHING>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_RESYNC_DISPATCHING>
  <TRANSACTION_LOCK_REMOTE_RESYNC_DISPATCHING>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_RESYNC_DISPATCHING>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Cencon database lock dispatching resynchronized with lock successfully.
  </Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-10-18T19:42:49.54Z</StartDate>
    <LastUsedDate/>
    <CustomerNumber>964592</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>1</AuditCount>
```

```

<IfLockOpen>>false</IfLockOpen>
<IfForcedClosed>>false</IfForcedClosed>
<IfRoute1Issued>>false</IfRoute1Issued>
<IfRoute2Issued>>false</IfRoute2Issued>
<IfRoute3Issued>>false</IfRoute3Issued>
<IfNoAlarm>>false</IfNoAlarm>
<IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
<IfActivationCall>>false</IfActivationCall>
<IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
<Seal>21260</Seal>
<PreviousSeal>0</PreviousSeal>
<RouteSeal1>0</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>0</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1/>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1/>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1/>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Service Branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>21260</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>

```

```
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</RESPONSE_LOCK_REMOTE_RESYNC_DISPATCHING>
```

2.10.12 Remote Lock Management XML File Transactions - Resynchronize Bank Mode Lock Users Across Network

CenTran Programming Reference Manual

This transaction is used to resynchronize users for bank mode of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to resynchronize users.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to resynchronize users. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to resynchronize users.
- **Lock Mode** - This is the lock mode of the lock that you are going to resynchronize users. This transaction currently only applies to Bank mode locks.
- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record
- Array of bank mode lock user IDs that were added to the lock data in the Cencon database
- Array of bank mode lock user IDs that were removed from the lock data in the Cencon database
- Array of bank mode lock user IDs that failed to be added to the lock data in the Cencon database. This may be because a user assigned to the lock no longer exists in the database.
- Array of bank mode lock user IDs that failed to be removed from the lock data in the Cencon database. This should not normally occur, but may happen because of a database error.

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_RESYNC_USERS>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock_1000107</LockName>
  <LockMode>B</LockMode>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_RESYNC_USERS>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_RESYNC_USERS>
  <TRANSACTION_LOCK_REMOTE_RESYNC_USERS>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2Lock_1000107</LockName>
    <LockMode>B</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_RESYNC_USERS>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Cencon database bank users for lock resynchronized with lock successfully.
  </Description>
</ResultRecord>
<LockRecord>
  <LockName>Gen2Lock_1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-10-19T12:32:58.56Z</StartDate>
```

```

<LastUsedDate>2012-10-19T12:53:11.513Z</LastUsedDate>
<CustomerNumber>424853</CustomerNumber>
<LockMode>B</LockMode>
<IfDualMode>>false</IfDualMode>
<SerialNumber>001000107</SerialNumber>
<AuditCount>1</AuditCount>
<IfLockOpen>>false</IfLockOpen>
<IfForcedClosed>>false</IfForcedClosed>
<IfRoute1Issued>>false</IfRoute1Issued>
<IfRoute2Issued>>false</IfRoute2Issued>
<IfRoute3Issued>>false</IfRoute3Issued>
<IfNoAlarm>>false</IfNoAlarm>
<IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
<IfActivationCall>>false</IfActivationCall>
<IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
<Seal>0</Seal>
<PreviousSeal>0</PreviousSeal>
<RouteSeal1>0</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>0</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
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<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>Truck #1</Description1>
<Description2>Serviced by Fred and John</Description2>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1>ATM Model #3</UserDefined1>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1/>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1/>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1/>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>

```

```

<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>5</BankOpenDelay>
<BankOpenWindow>5</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<BankModeUserNameArray>
  <UserID>BU1000</UserID>
  <UserID>BU01</UserID>
  <UserID>BU07</UserID>
  <UserID>BU05</UserID>
  <UserID>BU06</UserID>
</BankModeUserNameArray>
</LockRecord>
<BankUsersAddedToDatabaseLock>
  <UserID>BU07</UserID>
  <UserID>BU06</UserID>
</BankUsersAddedToDatabaseLock>
<BankUsersRemovedFromDatabaseLock>
  <UserID>BU999999</UserID>
  <UserID>BU02</UserID>
</BankUsersRemovedFromDatabaseLock>
<BankUsersFailedAddToDatabaseLock/>
<BankUsersFailedRemoveFromDatabaseLock/>
</RESPONSE_LOCK_REMOTE_RESYNC_USERS>

```

2.10.13 Remote Lock Management XML File Transactions - Cancel Dispatch and Advance To Next Lock Mode Combination Across Network

CenTran Programming Reference Manual

This transaction is used to cancel the dispatch of a mode of a Cencon Gen 2 or higher lock that is connected to a network IP address. It does this by checking the status of the lock to determine if the dispatched user has reached the lock and opened it. If the user has opened and closed the lock, this transaction closes out the dispatch and returns that the user already opened the lock. If the user has not opened the lock, then the combination for that mode of the lock is advanced to the next combination at the lock, and the dispatch is force closed in the Cencon database.

If this transaction is used and the lock is dispatched on one or more route sequences, each call to this transaction will cancel the dispatch for the next route sequence. If the lock was dispatched on route sequence 1, 2, and 3, then the first call will cancel the dispatch for route sequence 1, the second call will cancel the dispatch for route sequence 2, and the third call will cancel the dispatch for route sequence 3. If a route sequence is skipped, such as sequences 2 and 3 are the only ones dispatched, then sequence 1 will be dispatched and closed to prevent it from being used and the combination for the lock mode will be advanced.

If this transaction is used without a dispatched user, then the combination of the mode of the lock is advanced at the lock and in the Cencon database.

If this transaction is used and the lock is currently open, then an error will be returned.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to cancel dispatch and advance combination.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to cancel dispatch and advance combination. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to cancel dispatch and advance combination.
- **Lock Mode** - This is the lock mode of the lock that you are going to cancel dispatch and advance combination.
- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record
- Lock status record
- Lock hardware status record
- Lock mode status record
- IfUserOpenedClosedLockDispatch flag - Indicates if the user has already opened and closed the dispatch to the lock.
- IfAdvancedToNextLockCombo - Indicates if the lock mode was advanced to it's next combination.
- IfCancelledDispatch - Indicates if a dispatch was canceled in the Cencon database.
- IfAffectedRouteSequence - Indicates if a route mode was affected for cancelling a dispatch.
- AffectedRouteSequence - Value of the route mode that was affected for cancelling a dispatch. If present, this could be a value from 1 to 3.
- IfDuressComboUsedOnOpen - If the user has already opened and closed the dispatch, this indicates if a duress combination was used.
- IfClockBatteryLowOrResetOnOpen - If the user has already opened and closed the dispatch, this indicates if the clock battery was low or reset upon lock being opened.
- LockLogRecord - If present, these are the lock log records found to be dispatched at the time of the transaction for the specified lock mode.
- CanceledLockLogRecord - If present, this is the lock log record closed out by the transaction.

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_CANCEL_DISPATCH>
  <IPAddress>10.108.6.108:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2 Swingbolt 1037890</LockName>
```



```
<LockMode>R</LockMode>
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_CANCEL_DISPATCH>
```

Output Transaction:

```
<RESPONSE LOCK_REMOTE_CANCEL_DISPATCH>
  <TRANSACTION_LOCK_REMOTE_CANCEL_DISPATCH>
    <IPAddress>10.108.6.108:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2 Swingbolt 1037890</LockName>
    <LockMode>R</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_CANCEL_DISPATCH>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock event evaluated from lock successfully.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2 Swingbolt 1037890</LockName>
    <RecordType>A</RecordType>
    <StartDate>2013-07-22T19:01:47.467Z</StartDate>
    <LastUsedDate>2013-08-15T17:37:47.437Z</LastUsedDate>
    <CustomerNumber>309538</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001037890</SerialNumber>
    <AuditCount>78</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>true</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>16476</Seal>
    <PreviousSeal>30124</PreviousSeal>
    <RouteSeal1>28698</RouteSeal1>
    <RouteSeal2>21329</RouteSeal2>
    <RouteSeal3>16476</RouteSeal3>
    <PreviousRouteSeal1>30124</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>335198</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>95738</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>19495</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1/>
    <Description2/>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber/>
    <UserDefined1/>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>>true</IfLastRoute1Issued>
    <IfLastRoute2Issued>>true</IfLastRoute2Issued>
    <IfLastRoute3Issued>>true</IfLastRoute3Issued>
    <User1ID1>Route SHA Key 4</User1ID1>
    <User1ID2>Route SHA Key 4</User1ID2>
    <User1ID3>Route SHA Key 4</User1ID3>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1>TestRoute5</RouteName1>
    <RouteName2>TestRoute5</RouteName2>
    <RouteName3>TestRoute5</RouteName3>
    <DispatcherID1>CentranSS</DispatcherID1>
    <DispatcherID2>CentranSS</DispatcherID2>
    <DispatcherID3>CentranSS</DispatcherID3>
    <OpenTime1>2013-08-15T17:33:26.957Z</OpenTime1>
    <OpenTime2>2013-08-15T17:33:27.097Z</OpenTime2>
    <OpenTime3>2013-08-15T17:33:27.267Z</OpenTime3>
    <CloseTime1>2013-08-15T17:35:26.907Z</CloseTime1>
```

```
<CloseTime2>2013-08-15T17:37:12.643Z</CloseTime2>
<CloseTime3>2013-08-15T17:37:47.437Z</CloseTime3>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch/>
<Address1/>
<Address2/>
<City/>
<State/>
<ZIP/>
<Country/>
<KeyCloseSeal>10545</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.108</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
<LockRemoteStatusRecord>
  <ProductFamily>2</ProductFamily>
  <ProductCode>8</ProductCode>
  <MajorVersion>2</MajorVersion>
  <MinorVersion>2</MinorVersion>
  <BuildVersion>1078</BuildVersion>
  <SerialNumber>001037890</SerialNumber>
  <IfDuressOpenInProgress>>false</IfDuressOpenInProgress>
  <IfDelayedOpenInProgress>>false</IfDelayedOpenInProgress>
  <IfBoltRetracted>>false</IfBoltRetracted>
  <IfShelvedOpenInProgress>>false</IfShelvedOpenInProgress>
  <IfLockOutInProgress>>false</IfLockOutInProgress>
  <IfBoltExtendedDoorOpen>>false</IfBoltExtendedDoorOpen>
  <IfRemoteDisable>>false</IfRemoteDisable>
  <LockFLMModeActivationStatus>ActivateSingleUser</LockFLMModeActivationStatus>
  <IfLockFLMModeActive>true</IfLockFLMModeActive>
  <LockRouteModeActivationStatus>ActivateSingleUser</LockRouteModeActivationStatus>
  <IfLockRouteModeActive>true</IfLockRouteModeActive>
  <LockBankModeActivationStatus>ActivateSingleUser</LockBankModeActivationStatus>
  <IfLockBankModeActive>true</IfLockBankModeActive>
  <LockOpeningOdometer>63</LockOpeningOdometer>
  <IfAuditStatusWrapped>>false</IfAuditStatusWrapped>
  <AuditEventCount>196</AuditEventCount>
  <AuditEventOdometer>196</AuditEventOdometer>
  <IfDoorSensorConnectedOnOpen>SensorNotConnectedOnOpen</IfDoorSensorConnectedOnOpen>
</IfBoltWorksSensorConnectedOnOpen>SensorNotConnectedOnOpen</IfBoltWorksSensorConnectedOnOpen>
  <IfRemoteAdministrationEnabled>NotEnabled</IfRemoteAdministrationEnabled>
</LockRemoteStatusRecord>
<LockRemoteHardwareStatusRecord>
  <LockKeyReaderStatus>NoKeyPresent</LockKeyReaderStatus>
  <LockKeyBoardStatus>invalid</LockKeyBoardStatus>
  <LastKeyPressed>0</LastKeyPressed>
  <LockDisplayStatus>invalid</LockDisplayStatus>
  <LockCamPositionSensorStatus>invalid</LockCamPositionSensorStatus>
  <SuperCapVoltage>10.269</SuperCapVoltage>
  <ClockBatteryVoltage>3.258</ClockBatteryVoltage>
  <LockDoorSensorStatus>DoorClosed</LockDoorSensorStatus>
  <LockDisableInputStatus>LockEnabled</LockDisableInputStatus>
  <LockPowerSupplyStatus>invalid</LockPowerSupplyStatus>
  <LockSolenoidKickerCapStatus>invalid</LockSolenoidKickerCapStatus>
  <LockChangeKeyStatus>ChangeKeyIsNotPresent</LockChangeKeyStatus>
  <LockGPIO1Status>LineHigh</LockGPIO1Status>
  <LockGPIO2Status>LineHigh</LockGPIO2Status>
  <LockOnboardMemoryStatus>MemoryResponding</LockOnboardMemoryStatus>
  <LockOnboardClockStatus>ClockRespondingRunning</LockOnboardClockStatus>
</LockOnboardClockInterruptLineStatus>NoClockInterrupt</LockOnboardClockInterruptLineStatus>
  <LockOnboardClockDateTime>2013-08-15T17:38:21Z</LockOnboardClockDateTime>
```

```

<LockOnboardClockDateTimeRead>2013-08-
15T17:37:47.8902734Z</LockOnboardClockDateTimeRead>
<Temperature>18</Temperature>
<VCCSystemVoltage>3.3</VCCSystemVoltage>
<MemoryFormatVersion>0</MemoryFormatVersion>
<LockControlCardStatus>ControlCardPresent</LockControlCardStatus>
<LockBreakOutBoxStatus>BreakOutBoxPresent</LockBreakOutBoxStatus>
<LockBoltRetractedSwitchStatus>BoltNotRetracted</LockBoltRetractedSwitchStatus>
<LockBoltExtendedSwitchStatus>invalid</LockBoltExtendedSwitchStatus>

<LockBoltWorksExtendedSensorStatus>BoltWorksExtended</LockBoltWorksExtendedSensorStatus>
<LockAlternateChangeKeyStatus>ChangeKeyIsNotPresent</LockAlternateChangeKeyStatus>
<LockAuxiliarySerialIO_Num0_Status>LineHigh</LockAuxiliarySerialIO_Num0_Status>
</LockRemoteHardwareStatusRecord>
<LockRemoteModeStatusRecord>
  <LockModeStatus>Closed</LockModeStatus>
  <LockModeOpeningOdometer>77</LockModeOpeningOdometer>
  <LockCurrentUserCount>0</LockCurrentUserCount>
  <LockMaximumUserCount>0</LockMaximumUserCount>
  <TimeDelayBeforeOpenMinutes>0</TimeDelayBeforeOpenMinutes>
  <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
  <UnmodifiedOpeningCloseSeal>4379</UnmodifiedOpeningCloseSeal>
  <OpeningFirstUserID/>
  <OpeningFirstUserKeyInformation>
    <CanType>18</CanType>
    <KeyID>0000006A70CD</KeyID>
  </OpeningFirstUserKeyInformation>
  <OpeningFirstUserTimestamp>2013-08-15T17:09:13Z</OpeningFirstUserTimestamp>
  <OpeningSecondUserID/>
  <OpeningSecondUserKeyInformation/>
  <OpeningSecondUserTimestamp/>
  <IfDuressComboUsedOnOpen>false</IfDuressComboUsedOnOpen>
  <IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
  <ClosingUserID/>
  <ClosingUserKeyInformation>
    <CanType>18</CanType>
    <KeyID>0000006A70CD</KeyID>
  </ClosingUserKeyInformation>
  <ClosingUserTimestamp>2013-08-15T17:17:57Z</ClosingUserTimestamp>
  <ModifiedClosingCloseSeal>0568</ModifiedClosingCloseSeal>
  <LockModeClosingOdometer>74</LockModeClosingOdometer>
</LockRemoteModeStatusRecord>
<IfUserOpenedClosedLockDispatch>false</IfUserOpenedClosedLockDispatch>
<IfAdvancedToNextLockCombo>true</IfAdvancedToNextLockCombo>
<IfCancelledDispatch>true</IfCancelledDispatch>
<IfAffectedRouteSequence>true</IfAffectedRouteSequence>
<AffectedRouteSequence>3</AffectedRouteSequence>
<IfDuressComboUsedOnOpen>false</IfDuressComboUsedOnOpen>
<IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
<LockLogRecord>
  <LockName>Gen2 Swingbolt 1037890</LockName>
  <DispatchID>CentranSS</DispatchID>
  <User1ID>Route SHA Key 4</User1ID>
  <User2ID/>
  <RouteName>TestRoute5</RouteName>
  <GroupName/>
  <SerialNumber>001037890</SerialNumber>
  <AuditCount>75</AuditCount>
  <LockMode>R</LockMode>
  <IfDualMode>false</IfDualMode>
  <CustomerNumber>309538</CustomerNumber>
  <OpenDate>2013-08-15T17:33:27.267Z</OpenDate>
  <CloseDate/>
  <NumberCloseAttempts>0</NumberCloseAttempts>
  <LockSequence>3</LockSequence>
  <IfDispatchedOnRoute>true</IfDispatchedOnRoute>
  <IfForcedClosed>false</IfForcedClosed>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <DispatchOrder>2</DispatchOrder>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber/>
  <Region>KENTUCKY</Region>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
  <ServiceBranch/>
</LockLogRecord>
<CanceledLockLogRecord>
  <LockName>Gen2 Swingbolt 1037890</LockName>
  <DispatchID>CentranSS</DispatchID>
  <User1ID>Route SHA Key 4</User1ID>
  <User2ID/>
  <RouteName>TestRoute5</RouteName>
  <GroupName/>
  <SerialNumber>001037890</SerialNumber>
  <AuditCount>78</AuditCount>
  <LockMode>R</LockMode>
  <IfDualMode>false</IfDualMode>
  <CustomerNumber>309538</CustomerNumber>
  <OpenDate>2013-08-15T17:33:27.267Z</OpenDate>
  <CloseDate>2013-08-15T17:37:47.437Z</CloseDate>
  <NumberCloseAttempts>0</NumberCloseAttempts>
  <LockSequence>3</LockSequence>
  <IfDispatchedOnRoute>true</IfDispatchedOnRoute>
  <IfForcedClosed>true</IfForcedClosed>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <DispatchOrder>2</DispatchOrder>

```

```
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber/>
<Region>KENTUCKY</Region>
<IfUnassignedOpenCall>false</IfUnassignedOpenCall>
<ServiceBranch/>
</CanceledLockLogRecord>
</RESPONSE_LOCK_REMOTE_CANCEL_DISPATCH>
```

2.10.14 Remote Lock Management XML File Transactions - Input Dispatched Combination to Lock and Lock Prompt for User Key (IPI)

CenTran Programming Reference Manual

This transaction is used to input a currently dispatched combination to the remotely connected lock.

Upon receiving the combination, the lock checks if the specified lock mode is in a closed state. If the lock mode is not closed, if the bolt is retracted or the container door switch indicates open, then an error will be returned by the lock.

If the lock mode is closed and the lock is physically closed, the lock will return a success result and stop accepting further remote serial communications. Please note, a success result from the lock for this operation only means that the combination(s) have been accepted. It does not mean the combination(s) match the lock user key(s) or that the user has successfully opened the lock.

The lock will then prompt IPI for the first matching lock user key. The lock user present at the lock is required to present the matching lock user key to the lock key reader. If the combination matches with the key, the lock will open.

If the lock is in dual access mode, it will first prompt IPI for the first matching lock user key. After the first lock user key has been successfully presented, it will then prompt IP2 for the second lock user key. After the second lock user key has been successfully presented, the lock will compare the first combination with the first lock user key and the second combination with the second lock user key. If both combinations match the appropriate lock user key, the lock will open.

Caution

If the lock is in dual access mode, the lock user keys must be presented in the same order as specified in the dispatch of the users to the lock. If the keys are presented in reverse order to the lock, the comparison of the combinations to the keys will be reversed and the lock will display an error.

If this transaction is used and the lock is dispatched on one or more route sequences, a route sequence must be specified. This is the same as usage of route sequences by lock users dispatched on a route. The route sequence must be dispatched, and must be in the range of 1 to 3.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to input combination to.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to input combination to. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to input combination to.
- **Lock Mode** - This is the lock mode of the lock that you are going to input combination to.
- **Route Sequence Number** - This is the route sequence number of the dispatch that you are going to input to the lock. This value should be 0 if not dispatched on a route. If dispatched on a route, it can be a value of 1 to 3.

Transaction information returned:

Success:

- Result record indicating success
- Lock record including dispatch information

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

Once the command to input a combination is successfully accepted by the lock, it will return back a success reply and then halt further remote communications. The lock will then begin prompting the user or users for their lock keys. After the lock has been opened, or the user has failed to successfully present the correct lock user key, the lock will reboot. After the lock has rebooted, it will be available for remote communications again.

Example

This example inputs the dispatched combination for **FLM** mode of a lock named **Gen2 Swingbolt 1158563** though a remote CenTran lock agent direct network connection: **10.108.6.104:35005**

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPI>
  <IPAddress>10.108.6.104:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2 Swingbolt 1158563</LockName>
  <LockMode>F</LockMode>
  <LockSequence>0</LockSequence>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPI>
```

Output Transaction:

```
<RESPONSE LOCK_REMOTE_INPUT_COMBO_IPI>
  <TRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPI>
    <IPAddress>10.108.6.104:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2 Swingbolt 1158563</LockName>
    <LockMode>F</LockMode>
    <LockSequence>0</LockSequence>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPI>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock single user combination input to lock successfully, lock prompting
IPI.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2 Swingbolt 1158563</LockName>
    <RecordType>A</RecordType>
    <StartDate>2014-10-03T18:29:20.797Z</StartDate>
    <LastUsedDate>2014-10-06T16:30:50.277Z</LastUsedDate>
    <CustomerNumber>965482</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>001158563</SerialNumber>
    <AuditCount>2</AuditCount>
    <IfLockOpen>true</IfLockOpen>
    <IfForcedClosed>false</IfForcedClosed>
    <IfRoute1Issued>false</IfRoute1Issued>
    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
    <Seal>5691</Seal>
    <PreviousSeal>29469</PreviousSeal>
    <RouteSeal1>5691</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>29469</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>329183</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>672483</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1>Test Stand</Description1>
    <Description2/>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>ATM 1158563</ATMSerialNumber>
    <UserDefined1/>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>false</IfLastRoute3Issued>
    <User1ID1>FLM SHA Key 6</User1ID1>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>
    <RouteName3/>
    <DispatcherID1>CentranSS</DispatcherID1>
    <DispatcherID2/>
    <DispatcherID3/>
    <OpenTime1>2014-10-06T16:30:50.277Z</OpenTime1>
    <OpenTime2/>
    <OpenTime3/>
    <CloseTime1/>
    <CloseTime2/>
```

```

<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 6</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2014-10-06T15:36:34.767Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2014-10-06T16:27:56.61Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>10497</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1>329183</DisplayIssuedComboUser1Seq1>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_LOCK_REMOTE_INPUT_COMBO_IPI>

```

Example - Failure due to lock open

This example inputs the dispatched combination for **Route** mode of a lock named **Gen2 Swingbolt 1158563** though a remote CenTran lock agent persistent network connection: **LockSerialNumber:1158563**

The lock is currently open and the operation results in a error being returned by the lock.

Example Input Transaction:

```

<TRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPI>
  <IPAddress/>
  <CommunicationsID>LockSerialNumber:1158563</CommunicationsID>
  <CommunicationsMethod>TcpClient</CommunicationsMethod>
  <LockName>Gen2 Swingbolt 1158563</LockName>
  <LockMode>R</LockMode>
  <LockSequence>0</LockSequence>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPI>

```

Output Transaction:

```

<RESPONSE_LOCK_REMOTE_INPUT_COMBO_IPI>
  <TRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPI>
    <IPAddress/>
    <CommunicationsID>LockSerialNumber:1158563</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <LockName>Gen2 Swingbolt 1158563</LockName>
    <LockMode>R</LockMode>
    <LockSequence>0</LockSequence>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPI>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_PCIO_COMMS_ERR_MODE_CURRENTLY_OPEN</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>The serial communications command received by the lock requires that the
specified lock mode be closed for the command to be executed. The lock mode is open.
  </Description>

```



```
<Description>RC_ERR_PCIO_COMMS_ERR_MODE_CURRENTLY_OPEN</Description>
<Description>The serial communications command received by the lock requires that the
specified lock mode be closed for the command to be executed. The lock mode is open.
</Description>
</ResultRecord>
</RESPONSE_LOCK_REMOTE_INPUT_COMBO_IPI>
```

2.10.15 Remote Lock Management XML File Transactions - Reboot Lock Across Network

CenTran Programming Reference Manual

This transaction is used to reboot a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to reboot.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to reboot. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Dispatcher ID** - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

- Result record indicating success

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_REBOOT>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_REBOOT>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_REBOOT>
  <TRANSACTION_LOCK_REMOTE_REBOOT>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_REBOOT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock rebooted successfully.</Description>
  </ResultRecord>
</RESPONSE_LOCK_REMOTE_REBOOT>
```

3.1.1 Web Service CenTran Status - Version

CenTran Programming Reference Manual

This transaction is used to read the CenTran version and current server time.

Transaction information required:

- No information required.

Transaction information returned:

Success:

- Product name
- Version
- Major version number
- Minor version number
- Maintenance version number
- Build version number
- Server date and time based off of UTC
- Server date and time based off of Local Time
- Server time zone bias in minutes

Failure:

There should not be a failed return of data unless an internal error or connectivity error with CenTran has occurred.

Example

Input Transaction Format:

```
https://{host}/CentranService/rest/version
```

Example Transaction:

```
https://kml-3242.domain.local/CentranService/rest/version
```

Example Output Transaction:

```
<RESPONSE_VERSION>
  <ProductName>Centran</ProductName>
  <Version>4.1.5.2621</Version>
  <MajorVersionNumber>4</MajorVersionNumber>
  <MinorVersionNumber>1</MinorVersionNumber>
  <MaintenanceVersionNumber>5</MaintenanceVersionNumber>
  <BuildVersionNumber>2621</BuildVersionNumber>
  <ServerDateTimeUTC>2012-04-16T16:25:11.1464266Z</ServerDateTimeUTC>
  <ServerDateTimeLocal>2012-04-16T12:25:11.1464266-04:00</ServerDateTimeLocal>
  <ServerTimeZoneBias>-240</ServerTimeZoneBias>
</RESPONSE_VERSION>
```

Example - JSON

Input Transaction Format:

```
https://{host}/CentranServiceJSON/rest/version
```

Example Transaction:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/version
```

Example Output Transaction:

```
{
  "buildVersionNumberField" : "3534" ,
  "maintenanceVersionNumberField" : "0" ,
  "majorVersionNumberField" : "5" ,
  "minorVersionNumberField" : "2" ,
  "productNameField" : "Centran" ,
  "serverDateTimeLocalField" : "\/Date(1408736886105-0400)\/" ,
  "serverDateTimeLocalFieldSpecified" : true ,
  "serverDateTimeUTCField" : "\/Date(1408736886105)\/" ,
  "serverDateTimeUTCFieldSpecified" : true ,
  "serverTimeZoneBiasField" : "-240" ,
  "versionField" : "5.2.0.3534 (64-Bit)"
}
```


3.1.2 Web Service CenTran Status - Available Time Zones

CenTran Programming Reference Manual

This transaction is used to read the CenTran server available time zone information.

Transaction information required:

- No information required.

Transaction information returned:

Success:

- ServerDateTimeUTC - Server Data / Time based on UTC (Coordinated Universal Time).
- ServerDateTimeLocal - Server Data / Time based on Server Local Time Zone.
- ServerTimeZoneBias - Server time zone bias in minutes. (This value can be positive or negative.)
- ServerTimeZoneID - Server time zone ID. This value is a unique identifier for the time zone the server has assigned.
- TimeZoneRecord - This is an array of zero or more records describing the time zone information available on the server.

TimeZoneRecord:

- TimeZoneBias - This is the time zone bias in minutes from the time zone local time to UTC. (Integer)
- TimeZoneDaylightName - This is the time zone name for daylight savings time. (String)
- TimeZoneDisplayName - This is the display name for the time zone. (String)
- TimeZoneID - This is a unique identifier for the time zone. This value is used with CenTran transactions to identify the time zone to use. (String)
- TimeZoneStandardName - This is the time zone name for standard time. (String)
- IfSupportsDaylightSavingTime - This boolean value is set to true if the time zone supports daylight savings time. (Boolean)

Failure:

There should not be a failed return of data unless an internal error or connectivity error with CenTran has occurred.

Example

Input Transaction Format:

```
https://{host}/CentranService/rest/timezones
```

Example Transaction:

```
https://kml-3242.domain.local/CenTranService/rest/timezones
```

Example Output Transaction:

```
<RESPONSE AVAILABLE TIME_ZONE_QUERY>
  <ServerDateTimeUTC>2015-04-20T13:26:47.1390071Z</ServerDateTimeUTC>
  <ServerDateTimeLocal>2015-04-20T09:26:47.1390071-04:00</ServerDateTimeLocal>
  <ServerTimeZoneBias>-240</ServerTimeZoneBias>
  <ServerTimeZoneID>Eastern Standard Time</ServerTimeZoneID>
  <TimeZoneRecord>
    <TimeZoneBias>-720</TimeZoneBias>
    <TimeZoneDaylightName>Dateline Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC-12:00) International Date Line West</TimeZoneDisplayName>
    <TimeZoneID>Dateline Standard Time</TimeZoneID>
    <TimeZoneStandardName>Dateline Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
  <TimeZoneRecord>
    <TimeZoneBias>-660</TimeZoneBias>
    <TimeZoneDaylightName>UTC-11</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC-11:00) Coordinated Universal Time-11</TimeZoneDisplayName>
    <TimeZoneID>UTC-11</TimeZoneID>
    <TimeZoneStandardName>UTC-11</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
  <TimeZoneRecord>
    <TimeZoneBias>-600</TimeZoneBias>
    <TimeZoneDaylightName>Hawaiian Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC-10:00) Hawaii</TimeZoneDisplayName>
    <TimeZoneID>Hawaiian Standard Time</TimeZoneID>
    <TimeZoneStandardName>Hawaiian Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
  <TimeZoneRecord>
    <TimeZoneBias>-540</TimeZoneBias>
    <TimeZoneDaylightName>Alaskan Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC-09:00) Alaska</TimeZoneDisplayName>
    <TimeZoneID>Alaskan Standard Time</TimeZoneID>
    <TimeZoneStandardName>Alaskan Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>>true</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
  <TimeZoneRecord>
    <TimeZoneBias>-480</TimeZoneBias>
    <TimeZoneDaylightName>Pacific Daylight Time (Mexico)</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC-08:00) Baja California</TimeZoneDisplayName>
    <TimeZoneID>Pacific Standard Time (Mexico)</TimeZoneID>
    <TimeZoneStandardName>Pacific Standard Time (Mexico)</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>>true</IfSupportsDaylightSavingTime>
```

```

</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-480</TimeZoneBias>
  <TimeZoneDaylightName>Pacific Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-08:00) Pacific Time (US & Canada)</TimeZoneDisplayName>
  <TimeZoneID>Pacific Standard Time</TimeZoneID>
  <TimeZoneStandardName>Pacific Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-420</TimeZoneBias>
  <TimeZoneDaylightName>US Mountain Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-07:00) Arizona</TimeZoneDisplayName>
  <TimeZoneID>US Mountain Standard Time</TimeZoneID>
  <TimeZoneStandardName>US Mountain Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-420</TimeZoneBias>
  <TimeZoneDaylightName>Mountain Daylight Time (Mexico)</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-07:00) Chihuahua, La Paz, Mazatlan</TimeZoneDisplayName>
  <TimeZoneID>Mountain Standard Time (Mexico)</TimeZoneID>
  <TimeZoneStandardName>Mountain Standard Time (Mexico)</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-420</TimeZoneBias>
  <TimeZoneDaylightName>Mountain Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-07:00) Mountain Time (US & Canada)</TimeZoneDisplayName>
  <TimeZoneID>Mountain Standard Time</TimeZoneID>
  <TimeZoneStandardName>Mountain Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-360</TimeZoneBias>
  <TimeZoneDaylightName>Central America Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-06:00) Central America</TimeZoneDisplayName>
  <TimeZoneID>Central America Standard Time</TimeZoneID>
  <TimeZoneStandardName>Central America Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-360</TimeZoneBias>
  <TimeZoneDaylightName>Central Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-06:00) Central Time (US & Canada)</TimeZoneDisplayName>
  <TimeZoneID>Central Standard Time</TimeZoneID>
  <TimeZoneStandardName>Central Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-360</TimeZoneBias>
  <TimeZoneDaylightName>Central Daylight Time (Mexico)</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-06:00) Guadalajara, Mexico City,
Monterrey</TimeZoneDisplayName>
  <TimeZoneID>Central Standard Time (Mexico)</TimeZoneID>
  <TimeZoneStandardName>Central Standard Time (Mexico)</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-360</TimeZoneBias>
  <TimeZoneDaylightName>Canada Central Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-06:00) Saskatchewan</TimeZoneDisplayName>
  <TimeZoneID>Canada Central Standard Time</TimeZoneID>
  <TimeZoneStandardName>Canada Central Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-300</TimeZoneBias>
  <TimeZoneDaylightName>SA Pacific Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-05:00) Bogota, Lima, Quito, Rio Branco</TimeZoneDisplayName>
  <TimeZoneID>SA Pacific Standard Time</TimeZoneID>
  <TimeZoneStandardName>SA Pacific Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-300</TimeZoneBias>
  <TimeZoneDaylightName>Eastern Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-05:00) Eastern Time (US & Canada)</TimeZoneDisplayName>
  <TimeZoneID>Eastern Standard Time</TimeZoneID>
  <TimeZoneStandardName>Eastern Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-300</TimeZoneBias>
  <TimeZoneDaylightName>US Eastern Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-05:00) Indiana (East)</TimeZoneDisplayName>
  <TimeZoneID>US Eastern Standard Time</TimeZoneID>
  <TimeZoneStandardName>US Eastern Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-270</TimeZoneBias>
  <TimeZoneDaylightName>Venezuela Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-04:30) Caracas</TimeZoneDisplayName>
  <TimeZoneID>Venezuela Standard Time</TimeZoneID>
  <TimeZoneStandardName>Venezuela Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>

```

```

</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-240</TimeZoneBias>
  <TimeZoneDaylightName>Paraguay Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-04:00) Asuncion</TimeZoneDisplayName>
  <TimeZoneID>Paraguay Standard Time</TimeZoneID>
  <TimeZoneStandardName>Paraguay Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-240</TimeZoneBias>
  <TimeZoneDaylightName>Atlantic Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-04:00) Atlantic Time (Canada)</TimeZoneDisplayName>
  <TimeZoneID>Atlantic Standard Time</TimeZoneID>
  <TimeZoneStandardName>Atlantic Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-240</TimeZoneBias>
  <TimeZoneDaylightName>Central Brazilian Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-04:00) Cuiaba</TimeZoneDisplayName>
  <TimeZoneID>Central Brazilian Standard Time</TimeZoneID>
  <TimeZoneStandardName>Central Brazilian Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-240</TimeZoneBias>
  <TimeZoneDaylightName>SA Western Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-04:00) Georgetown, La Paz, Manaus, San
Juan</TimeZoneDisplayName>
  <TimeZoneID>SA Western Standard Time</TimeZoneID>
  <TimeZoneStandardName>SA Western Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-240</TimeZoneBias>
  <TimeZoneDaylightName>Pacific SA Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-04:00) Santiago</TimeZoneDisplayName>
  <TimeZoneID>Pacific SA Standard Time</TimeZoneID>
  <TimeZoneStandardName>Pacific SA Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-210</TimeZoneBias>
  <TimeZoneDaylightName>Newfoundland Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-03:30) Newfoundland</TimeZoneDisplayName>
  <TimeZoneID>Newfoundland Standard Time</TimeZoneID>
  <TimeZoneStandardName>Newfoundland Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-180</TimeZoneBias>
  <TimeZoneDaylightName>E. South America Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-03:00) Brasilia</TimeZoneDisplayName>
  <TimeZoneID>E. South America Standard Time</TimeZoneID>
  <TimeZoneStandardName>E. South America Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-180</TimeZoneBias>
  <TimeZoneDaylightName>Argentina Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-03:00) Buenos Aires</TimeZoneDisplayName>
  <TimeZoneID>Argentina Standard Time</TimeZoneID>
  <TimeZoneStandardName>Argentina Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-180</TimeZoneBias>
  <TimeZoneDaylightName>SA Eastern Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-03:00) Cayenne, Fortaleza</TimeZoneDisplayName>
  <TimeZoneID>SA Eastern Standard Time</TimeZoneID>
  <TimeZoneStandardName>SA Eastern Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-180</TimeZoneBias>
  <TimeZoneDaylightName>Greenland Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-03:00) Greenland</TimeZoneDisplayName>
  <TimeZoneID>Greenland Standard Time</TimeZoneID>
  <TimeZoneStandardName>Greenland Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-180</TimeZoneBias>
  <TimeZoneDaylightName>Montevideo Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-03:00) Montevideo</TimeZoneDisplayName>
  <TimeZoneID>Montevideo Standard Time</TimeZoneID>
  <TimeZoneStandardName>Montevideo Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-180</TimeZoneBias>
  <TimeZoneDaylightName>Bahia Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-03:00) Salvador</TimeZoneDisplayName>
  <TimeZoneID>Bahia Standard Time</TimeZoneID>
  <TimeZoneStandardName>Bahia Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>

```



```

</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-120</TimeZoneBias>
  <TimeZoneDaylightName>UTC-02</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-02:00) Coordinated Universal Time-02</TimeZoneDisplayName>
  <TimeZoneID>UTC-02</TimeZoneID>
  <TimeZoneStandardName>UTC-02</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>>false</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-120</TimeZoneBias>
  <TimeZoneDaylightName>Mid-Atlantic Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-02:00) Mid-Atlantic - Old</TimeZoneDisplayName>
  <TimeZoneID>Mid-Atlantic Standard Time</TimeZoneID>
  <TimeZoneStandardName>Mid-Atlantic Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>>true</IfSupportsDaylightSavingTime>
</TimeZoneRecord>
<TimeZoneRecord>
  <TimeZoneBias>-60</TimeZoneBias>
  <TimeZoneDaylightName>Azores Daylight Time</TimeZoneDaylightName>
  <TimeZoneDisplayName>(UTC-01:00) Azores</TimeZoneDisplayName>
  <TimeZoneID>Azores Standard Time</TimeZoneID>
  <TimeZoneStandardName>Azores Standard Time</TimeZoneStandardName>
  <IfSupportsDaylightSavingTime>>true</IfSupportsDaylightSavingTime>
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    <TimeZoneDisplayName>(UTC+09:30) Adelaide</TimeZoneDisplayName>
    <TimeZoneID>Cen. Australia Standard Time</TimeZoneID>
    <TimeZoneStandardName>Cen. Australia Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
  <TimeZoneRecord>
    <TimeZoneBias>570</TimeZoneBias>
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    <TimeZoneDisplayName>(UTC+09:30) Darwin</TimeZoneDisplayName>
    <TimeZoneID>AUS Central Standard Time</TimeZoneID>
    <TimeZoneStandardName>AUS Central Standard Time</TimeZoneStandardName>
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    <TimeZoneBias>600</TimeZoneBias>
    <TimeZoneDaylightName>E. Australia Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC+10:00) Brisbane</TimeZoneDisplayName>
    <TimeZoneID>E. Australia Standard Time</TimeZoneID>
    <TimeZoneStandardName>E. Australia Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
  <TimeZoneRecord>
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    <TimeZoneDaylightName>AUS Eastern Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC+10:00) Canberra, Melbourne, Sydney</TimeZoneDisplayName>
    <TimeZoneID>AUS Eastern Standard Time</TimeZoneID>
    <TimeZoneStandardName>AUS Eastern Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
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    <TimeZoneDaylightName>West Pacific Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC+10:00) Guam, Port Moresby</TimeZoneDisplayName>
    <TimeZoneID>West Pacific Standard Time</TimeZoneID>
    <TimeZoneStandardName>West Pacific Standard Time</TimeZoneStandardName>
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    <TimeZoneID>Tasmania Standard Time</TimeZoneID>
    <TimeZoneStandardName>Tasmania Standard Time</TimeZoneStandardName>
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    <TimeZoneID>Magadan Standard Time</TimeZoneID>
    <TimeZoneStandardName>Magadan Standard Time</TimeZoneStandardName>
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    <TimeZoneStandardName>Russia TZ 9 Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
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    <TimeZoneDisplayName>(UTC+11:00) Chokurdakh (RTZ 10)</TimeZoneDisplayName>
    <TimeZoneID>Russia Time Zone 10</TimeZoneID>
    <TimeZoneStandardName>Russia TZ 10 Standard Time</TimeZoneStandardName>
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  <TimeZoneRecord>
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    <TimeZoneDisplayName>(UTC+11:00) Solomon Is., New Caledonia</TimeZoneDisplayName>
    <TimeZoneID>Central Pacific Standard Time</TimeZoneID>
    <TimeZoneStandardName>Central Pacific Standard Time</TimeZoneStandardName>
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    <TimeZoneDaylightName>Russia TZ 11 Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC+12:00) Anadyr, Petropavlovsk-Kamchatsky (RTZ 11)</TimeZoneDisplayName>
    <TimeZoneID>Russia Time Zone 11</TimeZoneID>
    <TimeZoneStandardName>Russia TZ 11 Standard Time</TimeZoneStandardName>
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    <TimeZoneDaylightName>New Zealand Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC+12:00) Auckland, Wellington</TimeZoneDisplayName>
    <TimeZoneID>New Zealand Standard Time</TimeZoneID>

```

```

    <TimeZoneStandardName>New Zealand Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
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    <TimeZoneDaylightName>UTC+12</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC+12:00) Coordinated Universal Time+12</TimeZoneDisplayName>
    <TimeZoneID>UTC+12</TimeZoneID>
    <TimeZoneStandardName>UTC+12</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
  <TimeZoneRecord>
    <TimeZoneBias>720</TimeZoneBias>
    <TimeZoneDaylightName>Fiji Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC+12:00) Fiji</TimeZoneDisplayName>
    <TimeZoneID>Fiji Standard Time</TimeZoneID>
    <TimeZoneStandardName>Fiji Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
  <TimeZoneRecord>
    <TimeZoneBias>720</TimeZoneBias>
    <TimeZoneDaylightName>Kamchatka Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC+12:00) Petropavlovsk-Kamchatsky - Old</TimeZoneDisplayName>
    <TimeZoneID>Kamchatka Standard Time</TimeZoneID>
    <TimeZoneStandardName>Kamchatka Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
  <TimeZoneRecord>
    <TimeZoneBias>780</TimeZoneBias>
    <TimeZoneDaylightName>Tonga Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC+13:00) Nuku'alofa</TimeZoneDisplayName>
    <TimeZoneID>Tonga Standard Time</TimeZoneID>
    <TimeZoneStandardName>Tonga Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
  <TimeZoneRecord>
    <TimeZoneBias>780</TimeZoneBias>
    <TimeZoneDaylightName>Samoa Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC+13:00) Samoa</TimeZoneDisplayName>
    <TimeZoneID>Samoa Standard Time</TimeZoneID>
    <TimeZoneStandardName>Samoa Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>true</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
  <TimeZoneRecord>
    <TimeZoneBias>840</TimeZoneBias>
    <TimeZoneDaylightName>Line Islands Daylight Time</TimeZoneDaylightName>
    <TimeZoneDisplayName>(UTC+14:00) Kiritimati Island</TimeZoneDisplayName>
    <TimeZoneID>Line Islands Standard Time</TimeZoneID>
    <TimeZoneStandardName>Line Islands Standard Time</TimeZoneStandardName>
    <IfSupportsDaylightSavingTime>false</IfSupportsDaylightSavingTime>
  </TimeZoneRecord>
</RESPONSE_AVAILABLE_TIME_ZONE_QUERY>

```

Example - JSON

Input Transaction Format:

```
https://{host}/CentranServiceJSON/rest/timezones
```

Example Transaction:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/timezones
```

Example Output Transaction:

```

{
  "serverDateTimeLocalField" : "\\Date(1429536516852-0400)\\/" ,
  "serverDateTimeLocalFieldSpecified" : true ,
  "serverDateTimeUTCField" : "\\Date(1429536516852)\\/" ,
  "serverDateTimeUTCFieldSpecified" : true ,
  "serverTimeZoneBiasField" : "-240" ,
  "serverTimeZoneIDField" : "Eastern Standard Time" ,
  "timeZoneRecordField" :
  [
    {
      "ifSupportsDaylightSavingTimeField" : false ,
      "timeZoneBiasField" : "-720" ,
      "timeZoneDaylightNameField" : "Dateline Daylight Time" ,
      "timeZoneDisplayNameField" : "(UTC-12:00) International Date Line West" ,
      "timeZoneIDField" : "Dateline Standard Time" ,
      "timeZoneStandardNameField" : "Dateline Standard Time"
    } ,
    {
      "ifSupportsDaylightSavingTimeField" : false ,
      "timeZoneBiasField" : "-660" ,
      "timeZoneDaylightNameField" : "UTC-11" ,
      "timeZoneDisplayNameField" : "(UTC-11:00) Coordinated Universal Time-11" ,
      "timeZoneIDField" : "UTC-11" ,
      "timeZoneStandardNameField" : "UTC-11"
    } ,
  ]
}

```



```

{
    "ifSupportsDaylightSavingTimeField" : false ,
    "timeZoneBiasField" : "-600" ,
    "timeZoneDaylightNameField" : "Hawaiian Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC-10:00) Hawaii" ,
    "timeZoneIDField" : "Hawaiian Standard Time" ,
    "timeZoneStandardNameField" : "Hawaiian Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : true ,
    "timeZoneBiasField" : "-540" ,
    "timeZoneDaylightNameField" : "Alaskan Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC-09:00) Alaska" ,
    "timeZoneIDField" : "Alaskan Standard Time" ,
    "timeZoneStandardNameField" : "Alaskan Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : true ,
    "timeZoneBiasField" : "-480" ,
    "timeZoneDaylightNameField" : "Pacific Daylight Time (Mexico)" ,
    "timeZoneDisplayNameField" : "(UTC-08:00) Baja California" ,
    "timeZoneIDField" : "Pacific Standard Time (Mexico)" ,
    "timeZoneStandardNameField" : "Pacific Standard Time (Mexico)"
} ,
{
    "ifSupportsDaylightSavingTimeField" : true ,
    "timeZoneBiasField" : "-480" ,
    "timeZoneDaylightNameField" : "Pacific Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC-08:00) Pacific Time (US & Canada)" ,
    "timeZoneIDField" : "Pacific Standard Time" ,
    "timeZoneStandardNameField" : "Pacific Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : false ,
    "timeZoneBiasField" : "-420" ,
    "timeZoneDaylightNameField" : "US Mountain Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC-07:00) Arizona" ,
    "timeZoneIDField" : "US Mountain Standard Time" ,
    "timeZoneStandardNameField" : "US Mountain Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : true ,
    "timeZoneBiasField" : "-420" ,
    "timeZoneDaylightNameField" : "Mountain Daylight Time (Mexico)" ,
    "timeZoneDisplayNameField" : "(UTC-07:00) Chihuahua, La Paz, Mazatlan" ,
    "timeZoneIDField" : "Mountain Standard Time (Mexico)" ,
    "timeZoneStandardNameField" : "Mountain Standard Time (Mexico)"
} ,
{
    "ifSupportsDaylightSavingTimeField" : true ,
    "timeZoneBiasField" : "-420" ,
    "timeZoneDaylightNameField" : "Mountain Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC-07:00) Mountain Time (US & Canada)" ,
    "timeZoneIDField" : "Mountain Standard Time" ,
    "timeZoneStandardNameField" : "Mountain Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : false ,
    "timeZoneBiasField" : "-360" ,
    "timeZoneDaylightNameField" : "Central America Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC-06:00) Central America" ,
    "timeZoneIDField" : "Central America Standard Time" ,
    "timeZoneStandardNameField" : "Central America Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : true ,
    "timeZoneBiasField" : "-360" ,
    "timeZoneDaylightNameField" : "Central Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC-06:00) Central Time (US & Canada)" ,
    "timeZoneIDField" : "Central Standard Time" ,
    "timeZoneStandardNameField" : "Central Standard Time"
} ,
{
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    "timeZoneBiasField" : "-360" ,
    "timeZoneDaylightNameField" : "Central Daylight Time (Mexico)" ,
    "timeZoneDisplayNameField" : "(UTC-06:00) Guadalajara, Mexico City, Monterrey" ,
    "timeZoneIDField" : "Central Standard Time (Mexico)" ,
    "timeZoneStandardNameField" : "Central Standard Time (Mexico)"
} ,
{
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    "timeZoneBiasField" : "-360" ,
    "timeZoneDaylightNameField" : "Canada Central Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC-06:00) Saskatchewan" ,
    "timeZoneIDField" : "Canada Central Standard Time" ,
    "timeZoneStandardNameField" : "Canada Central Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : false ,

```

```

        "timeZoneBiasField" : "-300" ,
        "timeZoneDaylightNameField" : "SA Pacific Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-05:00) Bogota, Lima, Quito, Rio Branco" ,
        "timeZoneIDField" : "SA Pacific Standard Time" ,
        "timeZoneStandardNameField" : "SA Pacific Standard Time"
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        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "-300" ,
        "timeZoneDaylightNameField" : "Eastern Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-05:00) Eastern Time (US & Canada)" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "timeZoneStandardNameField" : "Eastern Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "-300" ,
        "timeZoneDaylightNameField" : "US Eastern Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-05:00) Indiana (East)" ,
        "timeZoneIDField" : "US Eastern Standard Time" ,
        "timeZoneStandardNameField" : "US Eastern Standard Time"
    } ,
    {
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        "timeZoneBiasField" : "-270" ,
        "timeZoneDaylightNameField" : "Venezuela Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-04:30) Caracas" ,
        "timeZoneIDField" : "Venezuela Standard Time" ,
        "timeZoneStandardNameField" : "Venezuela Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "-240" ,
        "timeZoneDaylightNameField" : "Paraguay Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-04:00) Asuncion" ,
        "timeZoneIDField" : "Paraguay Standard Time" ,
        "timeZoneStandardNameField" : "Paraguay Standard Time"
    } ,
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        "timeZoneBiasField" : "-240" ,
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        "timeZoneDisplayNameField" : "(UTC-04:00) Atlantic Time (Canada)" ,
        "timeZoneIDField" : "Atlantic Standard Time" ,
        "timeZoneStandardNameField" : "Atlantic Standard Time"
    } ,
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        "timeZoneBiasField" : "-240" ,
        "timeZoneDaylightNameField" : "Central Brazilian Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-04:00) Cuiaba" ,
        "timeZoneIDField" : "Central Brazilian Standard Time" ,
        "timeZoneStandardNameField" : "Central Brazilian Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "-240" ,
        "timeZoneDaylightNameField" : "SA Western Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-04:00) Georgetown, La Paz, Manaus, San Juan" ,
        "timeZoneIDField" : "SA Western Standard Time" ,
        "timeZoneStandardNameField" : "SA Western Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
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        "timeZoneDaylightNameField" : "Pacific SA Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-04:00) Santiago" ,
        "timeZoneIDField" : "Pacific SA Standard Time" ,
        "timeZoneStandardNameField" : "Pacific SA Standard Time"
    } ,
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        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "-210" ,
        "timeZoneDaylightNameField" : "Newfoundland Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-03:30) Newfoundland" ,
        "timeZoneIDField" : "Newfoundland Standard Time" ,
        "timeZoneStandardNameField" : "Newfoundland Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "-180" ,
        "timeZoneDaylightNameField" : "E. South America Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-03:00) Brasilia" ,
        "timeZoneIDField" : "E. South America Standard Time" ,
        "timeZoneStandardNameField" : "E. South America Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "-180" ,
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```

```

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        "timeZoneStandardNameField" : "Argentina Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "-180" ,
        "timeZoneDaylightNameField" : "SA Eastern Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-03:00) Cayenne, Fortaleza" ,
        "timeZoneIDField" : "SA Eastern Standard Time" ,
        "timeZoneStandardNameField" : "SA Eastern Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "-180" ,
        "timeZoneDaylightNameField" : "Greenland Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-03:00) Greenland" ,
        "timeZoneIDField" : "Greenland Standard Time" ,
        "timeZoneStandardNameField" : "Greenland Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "-180" ,
        "timeZoneDaylightNameField" : "Montevideo Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-03:00) Montevideo" ,
        "timeZoneIDField" : "Montevideo Standard Time" ,
        "timeZoneStandardNameField" : "Montevideo Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "-180" ,
        "timeZoneDaylightNameField" : "Bahia Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-03:00) Salvador" ,
        "timeZoneIDField" : "Bahia Standard Time" ,
        "timeZoneStandardNameField" : "Bahia Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "-120" ,
        "timeZoneDaylightNameField" : "UTC-02" ,
        "timeZoneDisplayNameField" : "(UTC-02:00) Coordinated Universal Time-02" ,
        "timeZoneIDField" : "UTC-02" ,
        "timeZoneStandardNameField" : "UTC-02"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "-120" ,
        "timeZoneDaylightNameField" : "Mid-Atlantic Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-02:00) Mid-Atlantic - Old" ,
        "timeZoneIDField" : "Mid-Atlantic Standard Time" ,
        "timeZoneStandardNameField" : "Mid-Atlantic Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "-60" ,
        "timeZoneDaylightNameField" : "Azores Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-01:00) Azores" ,
        "timeZoneIDField" : "Azores Standard Time" ,
        "timeZoneStandardNameField" : "Azores Standard Time"
    } ,
    {
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        "timeZoneBiasField" : "-60" ,
        "timeZoneDaylightNameField" : "Cabo Verde Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC-01:00) Cabo Verde Is." ,
        "timeZoneIDField" : "Cape Verde Standard Time" ,
        "timeZoneStandardNameField" : "Cabo Verde Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "0" ,
        "timeZoneDaylightNameField" : "Morocco Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC) Casablanca" ,
        "timeZoneIDField" : "Morocco Standard Time" ,
        "timeZoneStandardNameField" : "Morocco Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "0" ,
        "timeZoneDaylightNameField" : "Coordinated Universal Time" ,
        "timeZoneDisplayNameField" : "(UTC) Coordinated Universal Time" ,
        "timeZoneIDField" : "UTC" ,
        "timeZoneStandardNameField" : "Coordinated Universal Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "0" ,
        "timeZoneDaylightNameField" : "GMT Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC) Dublin, Edinburgh, Lisbon, London" ,
        "timeZoneIDField" : "GMT Standard Time" ,

```

```

        "timeZoneStandardNameField" : "GMT Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "0" ,
        "timeZoneDaylightNameField" : "Greenwich Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC) Monrovia, Reykjavik" ,
        "timeZoneIDField" : "Greenwich Standard Time" ,
        "timeZoneStandardNameField" : "Greenwich Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "60" ,
        "timeZoneDaylightNameField" : "W. Europe Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm,
Vienna" ,
        "timeZoneIDField" : "W. Europe Standard Time" ,
        "timeZoneStandardNameField" : "W. Europe Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "60" ,
        "timeZoneDaylightNameField" : "Central Europe Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+01:00) Belgrade, Bratislava, Budapest, Ljubljana,
Prague" ,
        "timeZoneIDField" : "Central Europe Standard Time" ,
        "timeZoneStandardNameField" : "Central Europe Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "60" ,
        "timeZoneDaylightNameField" : "Romance Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+01:00) Brussels, Copenhagen, Madrid, Paris" ,
        "timeZoneIDField" : "Romance Standard Time" ,
        "timeZoneStandardNameField" : "Romance Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "60" ,
        "timeZoneDaylightNameField" : "Central European Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+01:00) Sarajevo, Skopje, Warsaw, Zagreb" ,
        "timeZoneIDField" : "Central European Standard Time" ,
        "timeZoneStandardNameField" : "Central European Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "60" ,
        "timeZoneDaylightNameField" : "W. Central Africa Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+01:00) West Central Africa" ,
        "timeZoneIDField" : "W. Central Africa Standard Time" ,
        "timeZoneStandardNameField" : "W. Central Africa Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "60" ,
        "timeZoneDaylightNameField" : "Namibia Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+01:00) Windhoek" ,
        "timeZoneIDField" : "Namibia Standard Time" ,
        "timeZoneStandardNameField" : "Namibia Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "120" ,
        "timeZoneDaylightNameField" : "Jordan Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+02:00) Amman" ,
        "timeZoneIDField" : "Jordan Standard Time" ,
        "timeZoneStandardNameField" : "Jordan Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "120" ,
        "timeZoneDaylightNameField" : "GTB Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+02:00) Athens, Bucharest" ,
        "timeZoneIDField" : "GTB Standard Time" ,
        "timeZoneStandardNameField" : "GTB Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "120" ,
        "timeZoneDaylightNameField" : "Middle East Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+02:00) Beirut" ,
        "timeZoneIDField" : "Middle East Standard Time" ,
        "timeZoneStandardNameField" : "Middle East Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "120" ,
        "timeZoneDaylightNameField" : "Egypt Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+02:00) Cairo" ,
        "timeZoneIDField" : "Egypt Standard Time" ,

```

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        "timeZoneStandardNameField" : "Egypt Standard Time"
    },
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "120" ,
        "timeZoneDaylightNameField" : "Syria Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+02:00) Damascus" ,
        "timeZoneIDField" : "Syria Standard Time" ,
        "timeZoneStandardNameField" : "Syria Standard Time"
    },
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "120" ,
        "timeZoneDaylightNameField" : "E. Europe Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+02:00) E. Europe" ,
        "timeZoneIDField" : "E. Europe Standard Time" ,
        "timeZoneStandardNameField" : "E. Europe Standard Time"
    },
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "120" ,
        "timeZoneDaylightNameField" : "South Africa Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+02:00) Harare, Pretoria" ,
        "timeZoneIDField" : "South Africa Standard Time" ,
        "timeZoneStandardNameField" : "South Africa Standard Time"
    },
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "120" ,
        "timeZoneDaylightNameField" : "FLE Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius" ,
        "timeZoneIDField" : "FLE Standard Time" ,
        "timeZoneStandardNameField" : "FLE Standard Time"
    },
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "120" ,
        "timeZoneDaylightNameField" : "Turkey Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+02:00) Istanbul" ,
        "timeZoneIDField" : "Turkey Standard Time" ,
        "timeZoneStandardNameField" : "Turkey Standard Time"
    },
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "120" ,
        "timeZoneDaylightNameField" : "Jerusalem Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+02:00) Jerusalem" ,
        "timeZoneIDField" : "Israel Standard Time" ,
        "timeZoneStandardNameField" : "Jerusalem Standard Time"
    },
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "120" ,
        "timeZoneDaylightNameField" : "Russia TZ 1 Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+02:00) Kaliningrad (RTZ 1)" ,
        "timeZoneIDField" : "Kaliningrad Standard Time" ,
        "timeZoneStandardNameField" : "Russia TZ 1 Standard Time"
    },
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "120" ,
        "timeZoneDaylightNameField" : "Libya Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+02:00) Tripoli" ,
        "timeZoneIDField" : "Libya Standard Time" ,
        "timeZoneStandardNameField" : "Libya Standard Time"
    },
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "180" ,
        "timeZoneDaylightNameField" : "Arabic Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+03:00) Baghdad" ,
        "timeZoneIDField" : "Arabic Standard Time" ,
        "timeZoneStandardNameField" : "Arabic Standard Time"
    },
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "180" ,
        "timeZoneDaylightNameField" : "Arab Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+03:00) Kuwait, Riyadh" ,
        "timeZoneIDField" : "Arab Standard Time" ,
        "timeZoneStandardNameField" : "Arab Standard Time"
    },
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "180" ,
        "timeZoneDaylightNameField" : "Belarus Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+03:00) Minsk" ,
        "timeZoneIDField" : "Belarus Standard Time" ,
        "timeZoneStandardNameField" : "Belarus Standard Time"
    }

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    },
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "180" ,
        "timeZoneDaylightNameField" : "Russia TZ 2 Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+03:00) Moscow, St. Petersburg, Volgograd (RTZ 2)" ,
        "timeZoneIDField" : "Russian Standard Time" ,
        "timeZoneStandardNameField" : "Russia TZ 2 Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "180" ,
        "timeZoneDaylightNameField" : "E. Africa Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+03:00) Nairobi" ,
        "timeZoneIDField" : "E. Africa Standard Time" ,
        "timeZoneStandardNameField" : "E. Africa Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "210" ,
        "timeZoneDaylightNameField" : "Iran Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+03:30) Tehran" ,
        "timeZoneIDField" : "Iran Standard Time" ,
        "timeZoneStandardNameField" : "Iran Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "240" ,
        "timeZoneDaylightNameField" : "Arabian Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+04:00) Abu Dhabi, Muscat" ,
        "timeZoneIDField" : "Arabian Standard Time" ,
        "timeZoneStandardNameField" : "Arabian Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "240" ,
        "timeZoneDaylightNameField" : "Azerbaijan Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+04:00) Baku" ,
        "timeZoneIDField" : "Azerbaijan Standard Time" ,
        "timeZoneStandardNameField" : "Azerbaijan Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "240" ,
        "timeZoneDaylightNameField" : "Russia TZ 3 Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+04:00) Izhevsk, Samara (RTZ 3)" ,
        "timeZoneIDField" : "Russia Time Zone 3" ,
        "timeZoneStandardNameField" : "Russia TZ 3 Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "240" ,
        "timeZoneDaylightNameField" : "Mauritius Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+04:00) Port Louis" ,
        "timeZoneIDField" : "Mauritius Standard Time" ,
        "timeZoneStandardNameField" : "Mauritius Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "240" ,
        "timeZoneDaylightNameField" : "Georgian Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+04:00) Tbilisi" ,
        "timeZoneIDField" : "Georgian Standard Time" ,
        "timeZoneStandardNameField" : "Georgian Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "240" ,
        "timeZoneDaylightNameField" : "Caucasus Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+04:00) Yerevan" ,
        "timeZoneIDField" : "Caucasus Standard Time" ,
        "timeZoneStandardNameField" : "Caucasus Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "270" ,
        "timeZoneDaylightNameField" : "Afghanistan Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+04:30) Kabul" ,
        "timeZoneIDField" : "Afghanistan Standard Time" ,
        "timeZoneStandardNameField" : "Afghanistan Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "300" ,
        "timeZoneDaylightNameField" : "West Asia Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+05:00) Ashgabat, Tashkent" ,
        "timeZoneIDField" : "West Asia Standard Time" ,
        "timeZoneStandardNameField" : "West Asia Standard Time"
    } ,
    {

```

```

        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "300" ,
        "timeZoneDaylightNameField" : "Russia TZ 4 Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+05:00) Ekaterinburg (RTZ 4)" ,
        "timeZoneIDField" : "Ekaterinburg Standard Time" ,
        "timeZoneStandardNameField" : "Russia TZ 4 Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "300" ,
        "timeZoneDaylightNameField" : "Pakistan Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+05:00) Islamabad, Karachi" ,
        "timeZoneIDField" : "Pakistan Standard Time" ,
        "timeZoneStandardNameField" : "Pakistan Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "330" ,
        "timeZoneDaylightNameField" : "India Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi" ,
        "timeZoneIDField" : "India Standard Time" ,
        "timeZoneStandardNameField" : "India Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "330" ,
        "timeZoneDaylightNameField" : "Sri Lanka Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+05:30) Sri Jayawardenepura" ,
        "timeZoneIDField" : "Sri Lanka Standard Time" ,
        "timeZoneStandardNameField" : "Sri Lanka Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "345" ,
        "timeZoneDaylightNameField" : "Nepal Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+05:45) Kathmandu" ,
        "timeZoneIDField" : "Nepal Standard Time" ,
        "timeZoneStandardNameField" : "Nepal Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "360" ,
        "timeZoneDaylightNameField" : "Central Asia Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+06:00) Astana" ,
        "timeZoneIDField" : "Central Asia Standard Time" ,
        "timeZoneStandardNameField" : "Central Asia Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "360" ,
        "timeZoneDaylightNameField" : "Bangladesh Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+06:00) Dhaka" ,
        "timeZoneIDField" : "Bangladesh Standard Time" ,
        "timeZoneStandardNameField" : "Bangladesh Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "360" ,
        "timeZoneDaylightNameField" : "Russia TZ 5 Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+06:00) Novosibirsk (RTZ 5)" ,
        "timeZoneIDField" : "N. Central Asia Standard Time" ,
        "timeZoneStandardNameField" : "Russia TZ 5 Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "390" ,
        "timeZoneDaylightNameField" : "Myanmar Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+06:30) Yangon (Rangoon)" ,
        "timeZoneIDField" : "Myanmar Standard Time" ,
        "timeZoneStandardNameField" : "Myanmar Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "420" ,
        "timeZoneDaylightNameField" : "SE Asia Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+07:00) Bangkok, Hanoi, Jakarta" ,
        "timeZoneIDField" : "SE Asia Standard Time" ,
        "timeZoneStandardNameField" : "SE Asia Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "420" ,
        "timeZoneDaylightNameField" : "Russia TZ 6 Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+07:00) Krasnoyarsk (RTZ 6)" ,
        "timeZoneIDField" : "North Asia Standard Time" ,
        "timeZoneStandardNameField" : "Russia TZ 6 Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "480" ,

```



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"timeZoneDaylightNameField" : "China Daylight Time" ,
"timeZoneDisplayNameField" : "(UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi" ,
"timeZoneIDField" : "China Standard Time" ,
"timeZoneStandardNameField" : "China Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : true ,
    "timeZoneBiasField" : "480" ,
    "timeZoneDaylightNameField" : "Russia TZ 7 Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC+08:00) Irkutsk (RTZ 7)" ,
    "timeZoneIDField" : "North Asia East Standard Time" ,
    "timeZoneStandardNameField" : "Russia TZ 7 Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : false ,
    "timeZoneBiasField" : "480" ,
    "timeZoneDaylightNameField" : "Malay Peninsula Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC+08:00) Kuala Lumpur, Singapore" ,
    "timeZoneIDField" : "Singapore Standard Time" ,
    "timeZoneStandardNameField" : "Malay Peninsula Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : true ,
    "timeZoneBiasField" : "480" ,
    "timeZoneDaylightNameField" : "W. Australia Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC+08:00) Perth" ,
    "timeZoneIDField" : "W. Australia Standard Time" ,
    "timeZoneStandardNameField" : "W. Australia Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : false ,
    "timeZoneBiasField" : "480" ,
    "timeZoneDaylightNameField" : "Taipei Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC+08:00) Taipei" ,
    "timeZoneIDField" : "Taipei Standard Time" ,
    "timeZoneStandardNameField" : "Taipei Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : false ,
    "timeZoneBiasField" : "480" ,
    "timeZoneDaylightNameField" : "Ulaanbaatar Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC+08:00) Ulaanbaatar" ,
    "timeZoneIDField" : "Ulaanbaatar Standard Time" ,
    "timeZoneStandardNameField" : "Ulaanbaatar Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : false ,
    "timeZoneBiasField" : "540" ,
    "timeZoneDaylightNameField" : "Tokyo Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC+09:00) Osaka, Sapporo, Tokyo" ,
    "timeZoneIDField" : "Tokyo Standard Time" ,
    "timeZoneStandardNameField" : "Tokyo Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : false ,
    "timeZoneBiasField" : "540" ,
    "timeZoneDaylightNameField" : "Korea Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC+09:00) Seoul" ,
    "timeZoneIDField" : "Korea Standard Time" ,
    "timeZoneStandardNameField" : "Korea Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : true ,
    "timeZoneBiasField" : "540" ,
    "timeZoneDaylightNameField" : "Russia TZ 8 Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC+09:00) Yakutsk (RTZ 8)" ,
    "timeZoneIDField" : "Yakutsk Standard Time" ,
    "timeZoneStandardNameField" : "Russia TZ 8 Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : true ,
    "timeZoneBiasField" : "570" ,
    "timeZoneDaylightNameField" : "Cen. Australia Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC+09:30) Adelaide" ,
    "timeZoneIDField" : "Cen. Australia Standard Time" ,
    "timeZoneStandardNameField" : "Cen. Australia Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : false ,
    "timeZoneBiasField" : "570" ,
    "timeZoneDaylightNameField" : "AUS Central Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC+09:30) Darwin" ,
    "timeZoneIDField" : "AUS Central Standard Time" ,
    "timeZoneStandardNameField" : "AUS Central Standard Time"
} ,
{
    "ifSupportsDaylightSavingTimeField" : false ,
    "timeZoneBiasField" : "600" ,
    "timeZoneDaylightNameField" : "E. Australia Daylight Time" ,
    "timeZoneDisplayNameField" : "(UTC+10:00) Brisbane" ,

```

```

        "timeZoneIDField" : "E. Australia Standard Time" ,
        "timeZoneStandardNameField" : "E. Australia Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "600" ,
        "timeZoneDaylightNameField" : "AUS Eastern Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+10:00) Canberra, Melbourne, Sydney" ,
        "timeZoneIDField" : "AUS Eastern Standard Time" ,
        "timeZoneStandardNameField" : "AUS Eastern Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "600" ,
        "timeZoneDaylightNameField" : "West Pacific Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+10:00) Guam, Port Moresby" ,
        "timeZoneIDField" : "West Pacific Standard Time" ,
        "timeZoneStandardNameField" : "West Pacific Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "600" ,
        "timeZoneDaylightNameField" : "Tasmania Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+10:00) Hobart" ,
        "timeZoneIDField" : "Tasmania Standard Time" ,
        "timeZoneStandardNameField" : "Tasmania Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "600" ,
        "timeZoneDaylightNameField" : "Magadan Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+10:00) Magadan" ,
        "timeZoneIDField" : "Magadan Standard Time" ,
        "timeZoneStandardNameField" : "Magadan Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "600" ,
        "timeZoneDaylightNameField" : "Russia TZ 9 Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+10:00) Vladivostok, Magadan (RTZ 9)" ,
        "timeZoneIDField" : "Vladivostok Standard Time" ,
        "timeZoneStandardNameField" : "Russia TZ 9 Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "660" ,
        "timeZoneDaylightNameField" : "Russia TZ 10 Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+11:00) Chokurdakh (RTZ 10)" ,
        "timeZoneIDField" : "Russia Time Zone 10" ,
        "timeZoneStandardNameField" : "Russia TZ 10 Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "660" ,
        "timeZoneDaylightNameField" : "Central Pacific Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+11:00) Solomon Is., New Caledonia" ,
        "timeZoneIDField" : "Central Pacific Standard Time" ,
        "timeZoneStandardNameField" : "Central Pacific Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "720" ,
        "timeZoneDaylightNameField" : "Russia TZ 11 Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+12:00) Anadyr, Petropavlovsk-Kamchatsky (RTZ 11)" ,
        "timeZoneIDField" : "Russia Time Zone 11" ,
        "timeZoneStandardNameField" : "Russia TZ 11 Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "720" ,
        "timeZoneDaylightNameField" : "New Zealand Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+12:00) Auckland, Wellington" ,
        "timeZoneIDField" : "New Zealand Standard Time" ,
        "timeZoneStandardNameField" : "New Zealand Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "720" ,
        "timeZoneDaylightNameField" : "UTC+12" ,
        "timeZoneDisplayNameField" : "(UTC+12:00) Coordinated Universal Time+12" ,
        "timeZoneIDField" : "UTC+12" ,
        "timeZoneStandardNameField" : "UTC+12"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "720" ,
        "timeZoneDaylightNameField" : "Fiji Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+12:00) Fiji" ,
        "timeZoneIDField" : "Fiji Standard Time" ,
        "timeZoneStandardNameField" : "Fiji Standard Time"
    }

```

```

    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "720" ,
        "timeZoneDaylightNameField" : "Kamchatka Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+12:00) Petropavlovsk-Kamchatsky - Old" ,
        "timeZoneIDField" : "Kamchatka Standard Time" ,
        "timeZoneStandardNameField" : "Kamchatka Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "780" ,
        "timeZoneDaylightNameField" : "Tonga Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+13:00) Nuku'alofa" ,
        "timeZoneIDField" : "Tonga Standard Time" ,
        "timeZoneStandardNameField" : "Tonga Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : true ,
        "timeZoneBiasField" : "780" ,
        "timeZoneDaylightNameField" : "Samoa Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+13:00) Samoa" ,
        "timeZoneIDField" : "Samoa Standard Time" ,
        "timeZoneStandardNameField" : "Samoa Standard Time"
    } ,
    {
        "ifSupportsDaylightSavingTimeField" : false ,
        "timeZoneBiasField" : "840" ,
        "timeZoneDaylightNameField" : "Line Islands Daylight Time" ,
        "timeZoneDisplayNameField" : "(UTC+14:00) Kiritimati Island" ,
        "timeZoneIDField" : "Line Islands Standard Time" ,
        "timeZoneStandardNameField" : "Line Islands Standard Time"
    }
}
]
}

```

3.1.3 Web Service CenTran Status - Help

CenTran Programming Reference Manual

This transaction is used to read the CenTran web service help.

Transaction information required:

- No information required.

Transaction information returned:

Success:

An HTML based help page listing available information for the CenTran web service transactions.

Failure:

There should not be a failed return of data unless an internal error or connectivity error with CenTran has occurred.

Example

Input Transaction:

```
https://{host}/CentranService/rest/help
```

Output Transaction:

Operations at https://kml-3242/CentranService/rest/

This page describes the service operations at this endpoint.

Uri	Method	Description
*	OPTIONS	Authorizes cross-domain browser pre-flight checks
event/{eventid}	GET	Returns the audit data for the indicated event id.
hello	GET	Echoes the given name
lock/audits	POST	Returns audits by remotely accessing the lock at the given IP address
lock/close	POST	Closes the call for the specified lock by name and mode or serial number and mode with the given close seal number
lock/dispatch	POST	Dispatches the specified lock by name and mode or serial number and mode to the given user or users
lock/evaluate	POST	Evaluates and returns event and status information by remotely accessing the lock at the given IP address
lock/query	POST	Executes a database query against the Cencon lock table and returns the matching records. The number of records returned can be very large if the query is not specific.
lock/query-count	POST	Executes a database query against the Cencon lock table and returns the count of matching records.
lock/reassign	POST	Reassigns the specified lock by name and mode or serial number and mode to the given user or users
lock/rename	POST	Renames a lock based off of the given name and mode or serial number and mode
lock/status	POST	Returns status information by remotely accessing the lock at the given IP address
lock/unassign	POST	Unassigns the specified lock by name and mode or serial number and mode
lock/update	POST	Updates descriptive data for a lock based off of the given name and mode or the given serial number and mode
lock-names/{lockname}/{mode}/data	GET	Returns data for the specified lock by name
lock-serialnumbers/{serialnumber}/{mode}/data	GET	Returns data for the specified lock by serial number
log/query	POST	Executes a database query against the Cencon lock log table and returns the matching records. The number of records returned can be very large if the query is not specific.
log/query-count	POST	Executes a database query against the Cencon lock log table and returns the count of matching records.
log-archive/query	POST	Executes a database query against the Cencon lock log archive table and returns the matching records. The number of records returned can be very large if the query is not specific.
log-archive/query-count	POST	Executes a database query against the Cencon lock log archive table and returns the count of matching records.
log-history/query	POST	Executes a database query against the Cencon lock log history table and returns the matching records. The number of records returned can be very large if the query is not specific.
log-history/query-count	POST	Executes a database query against the Cencon lock log history table and returns the count of matching records.
log-names/{lockname}/{mode}/data	GET	Returns data for the specified lock by name from lock log
log-serialnumbers/{serialnumber}/{mode}/data	GET	Returns data for the specified lock by serial number from lock log
user/add_key	POST	Adds an FLM, Route, or Bank mode lock user key to the Cencon database, and writes to the user key at the specified network address.
user/change_name	POST	Changes the ID (Name) for the specified user.
user/delete	POST	Deletes an FLM, Route, or Bank mode lock user key from the Cencon database.
user/read_key	POST	Read an FLM, Route, or Bank mode lock user key at the specified network address.
user/update	POST	Updates user information in the Cencon database.
user/update_key	POST	Updates an FLM, Route, or Bank mode lock user key in the Cencon database, and writes to the user key at the specified network address.
user-ids/{userid}/data	GET	Returns data for the specified user by ID
user-keyserials/{cantype}/{keyid}/data	GET	Returns data for the specified user by key serial number
version	GET	Returns the product version information and server time for the web service

3.2.1 Web Service Lock Transactions - Dispatch Lock By Name

CenTran Programming Reference Manual

This transaction is used to dispatch the lock specified by lock name and mode to a lock user or users. This applies to FLM and Route modes only.

Transaction information required:

- Lock Name
- Lock Mode (F/R)
- First User Name
- Second User Name (Only if the lock is in dual user operation.)
- Flag indicating if dispatch is to be marked as second line maintenance call. (Optional)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/dispatch
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/dispatch
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_DISPATCH_LOCK>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <User1ID>F3</User1ID>
  <User2ID/>
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <DispatcherID/>
</TRANSACTION_DISPATCH_LOCK>
```

Example Output Transaction:

```
<RESPONSE_DISPATCH_LOCK>
  <TRANSACTION_DISPATCH_LOCK>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>F</LockMode>
    <User1ID>F3</User1ID>
    <User2ID/>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC OK</ErrorCode>
    <Description>The lock dispatch succeeded.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-01-23T15:53:55.31Z</StartDate>
    <LastUsedDate>2012-04-16T17:17:23.625Z</LastUsedDate>
    <CustomerNumber>928503</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>3</AuditCount>
    <IfLockOpen>true</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
```

```

<Seal>1901</Seal>
<PreviousSeal>21289</PreviousSeal>
<RouteSeal1>1901</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>21289</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>470716</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>877356</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName>AA001</GroupName>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>123-4567-8910</Description1>
<Description2>2013-10-17</Description2>
<Description3>#34</Description3>
<Description4>Joe Bob Jr.</Description4>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1>Cylinder</UserDefined1>
<UserDefined2>Joe Bob Sr.</UserDefined2>
<UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
<UserDefined4>Jane Bob</UserDefined4>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>F3</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2012-04-16T17:17:23.625Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>F3</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2012-04-13T14:27:14.703Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2012-04-16T17:15:32.117Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>My new service branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>1390</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
</LockRecord>
</RESPONSE_DISPATCH_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran dispatch lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

itemElementNameField - Enumeration of itemField field contents:

Value	Enumerated Value	Meaning
0	LockName	itemField contains lock name.
1	SerialNumber	itemField contains lock serial number.

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/dispatch
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/dispatch
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "ifSecondLineMaintenanceCallField" : false ,
  "ifSecondLineMaintenanceCallFieldSpecified" : true ,
  "itemElementNameField" : 0 ,
  "itemField" : "Gen2 Swingbolt 1037890" ,
  "lockModeField" : 0 ,
  "user1IDField" : "FLM SHA Key 6" ,
  "user2IDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "5" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "" ,
```



```

"closeSealLengthField" : "4" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "839474" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "649621" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : true ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "649621" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "301" ,
"lastUsedDateField" : "\Date(1408739127870)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1408739127870)\" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1402423327790)\" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "824167" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1402423246750)\" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "17936" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "17936" ,
"previousUser1ID1Field" : "FIM SHA Key 6" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,

```

```

        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "30904" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "30904" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\Date(1393346881577)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "FLM SHA Key 6" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zipField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "The lock dispatch succeeded."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "TRANSACTION_DISPATCH_LOCKField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifSecondLineMaintenanceCallFieldSpecified" : false ,
        "itemElementNameField" : 0 ,
        "itemField" : "Gen2 Swingbolt 1037890" ,
        "lockModeField" : 0 ,
        "user1IDField" : "FLM SHA Key 6" ,
        "user2IDField" : null
    }
}

```

3.2.2 Web Service Lock Transactions - Dispatch Lock By Serial Number

CenTran Programming Reference Manual

This transaction is used to dispatch the lock specified by lock serial number and mode to a lock user or users. This applies to FLM and Route modes only.

Transaction information required:

- Lock Serial Number
- Lock Mode (F/R)
- First User Name
- Second User Name (Only if the lock is in dual user operation.)
- Flag indicating if dispatch is to be marked as second line maintenance call. (Optional)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/dispatch
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/dispatch
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_DISPATCH_LOCK>
  <SerialNumber>1000107</SerialNumber>
  <LockMode>F</LockMode>
  <User1ID>F3</User1ID>
  <User2ID/>
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <DispatcherID/>
</TRANSACTION_DISPATCH_LOCK>
```

Example Output Transaction:

```
<RESPONSE_DISPATCH_LOCK>
  <TRANSACTION_DISPATCH_LOCK>
    <SerialNumber>1000107</SerialNumber>
    <LockMode>F</LockMode>
    <User1ID>F3</User1ID>
    <User2ID/>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC OK</ErrorCode>
    <Description>The lock dispatch succeeded.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-01-23T15:53:55.31Z</StartDate>
    <LastUsedDate>2012-04-16T17:17:23.625Z</LastUsedDate>
    <CustomerNumber>928503</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>3</AuditCount>
    <IfLockOpen>true</IfLockOpen>
    <IfForcedClosed>false</IfForcedClosed>
    <IfRoute1Issued>false</IfRoute1Issued>
    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
```

```

<Seal>1901</Seal>
<PreviousSeal>21289</PreviousSeal>
<RouteSeal1>1901</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>21289</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>470716</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>877356</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName>AA001</GroupName>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>123-4567-8910</Description1>
<Description2>2013-10-17</Description2>
<Description3>#34</Description3>
<Description4>Joe Bob Jr.</Description4>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1>Cylinder</UserDefined1>
<UserDefined2>Joe Bob Sr.</UserDefined2>
<UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
<UserDefined4>Jane Bob</UserDefined4>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>F3</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2012-04-16T17:17:23.625Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>F3</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2012-04-13T14:27:14.703Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2012-04-16T17:15:32.117Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>My new service branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>1390</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
</LockRecord>
</RESPONSE_DISPATCH_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran dispatch lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

itemElementNameField - Enumeration of itemField field contents:

Value	Enumerated Value	Meaning
0	LockName	itemField contains lock name.
1	SerialNumber	itemField contains lock serial number.

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/lock/dispatch
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/dispatch
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "ifSecondLineMaintenanceCallField" : false ,
  "ifSecondLineMaintenanceCallFieldSpecified" : true ,
  "itemElementNameField" : 1 ,
  "itemField" : "1037890" ,
  "lockModeField" : 0 ,
  "user1IDField" : "FLM SHA Key 6" ,
  "user2IDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "7" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "" ,

```

```

"closeSealLengthField" : "4" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "839474" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "942692" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : true ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "942692" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "301" ,
"lastUsedDateField" : "\Date(1408990355833)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1408990355833)\" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1408979682850)\" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "815640" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1408979359863)\" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "25856" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "25856" ,
"previousUser1ID1Field" : "FIM SHA Key 6" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,

```

```

        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "9775" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "9775" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\Date(1393346881577)\" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "FLM SHA Key 6" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zipField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "The lock dispatch succeeded."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tRANSACTION_DISPATCH_LOCKField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifSecondLineMaintenanceCallFieldSpecified" : false ,
        "itemElementNameField" : 1 ,
        "itemField" : "1037890" ,
        "lockModeField" : 0 ,
        "user1IDField" : "FLM SHA Key 6" ,
        "user2IDField" : null
    }
}

```


3.2.3 Web Service Lock Transactions - Reassign Lock By Name

CenTran Programming Reference Manual

This transaction is used to reassign the lock specified by lock name and mode to a lock user or users. This applies to FLM and Route modes only.

Transaction information required:

- Lock Name
- Lock Mode (F/R)
- First User Name
- Second User Name (Only if the lock is in dual user operation.)
- Lock Sequence (Optional. This applies to route dispatches only. Can be set to 0 if not used, or is a range of 1 to 3 for a valid lock sequence.)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/reassign
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/reassign
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_REASSIGN_LOCK>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <User1ID>F4</User1ID>
  <User2ID/>
  <LockSequence>0</LockSequence>
  <DispatcherID/>
</TRANSACTION_REASSIGN_LOCK>
```

Example Output Transaction:

```
<RESPONSE_REASSIGN_LOCK>
  <TRANSACTION_REASSIGN_LOCK>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>F</LockMode>
    <User1ID>F4</User1ID>
    <User2ID/>
    <LockSequence>0</LockSequence>
    <DispatcherID/>
  </TRANSACTION_REASSIGN_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>The lock reassign succeeded.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-01-23T15:53:55.31Z</StartDate>
    <LastUsedDate>2012-04-16T17:17:23.627Z</LastUsedDate>
    <CustomerNumber>928503</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>3</AuditCount>
    <IfLockOpen>true</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
```

```

<IfUnassignedOpenCall>false</IfUnassignedOpenCall>
<Seal>1901</Seal>
<PreviousSeal>21289</PreviousSeal>
<RouteSeal1>1901</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>21289</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>792484</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>877356</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName>AA001</GroupName>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>123-4567-8910</Description1>
<Description2>2013-10-17</Description2>
<Description3>#34</Description3>
<Description4>Joe Bob Jr.</Description4>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1>Cylinder</UserDefined1>
<UserDefined2>Joe Bob Sr.</UserDefined2>
<UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
<UserDefined4>Jane Bob</UserDefined4>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>false</IfLastRoute1Issued>
<IfLastRoute2Issued>false</IfLastRoute2Issued>
<IfLastRoute3Issued>false</IfLastRoute3Issued>
<User1ID1>F4</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CENTRAN</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2012-04-16T17:17:23.627Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>F3</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2012-04-13T14:27:14.703Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2012-04-16T17:15:32.117Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>My new service branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>1390</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2 </LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
</LockRecord>
</RESPONSE_REASSIGN_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran reassign lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

itemElementNameField - Enumeration of itemField field contents:

Value	Enumerated Value	Meaning
0	LockName	itemField contains lock name.
1	SerialNumber	itemField contains lock serial number.

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/lock/reassign
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/reassign
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "itemElementNameField" : 0 ,
  "itemField" : "Gen2 Swingbolt 1037890" ,
  "lockModeField" : 0 ,
  "lockSequenceField" : null ,
  "user1IDField" : "FLM SHA Key 4" ,
  "user2IDField" : ""
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "7" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
  }
}
```

```

"cityField" : "" ,
"closeSealLengthField" : "4" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "839474" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "828097" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : true ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "828097" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "301" ,
"lastUsedDateField" : "\\Date(1408990355833) \\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\\Date(1408990355833) \\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\\Date(1408979682850) \\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "815640" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\\Date(1408979359863) \\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "25856" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "25856" ,
"previousUser1ID1Field" : "FLM SHA Key 6" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,

```

```

        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "9775" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "9775" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\Date(1393346881577)\" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "FLM SHA Key 4" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "The lock reassign succeeded."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_REASSIGN_LOCKField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "itemElementNameField" : 0 ,
        "itemField" : "Gen2 Swingbolt 1037890" ,
        "lockModeField" : 0 ,
        "lockSequenceField" : null ,
        "user1IDField" : "FLM SHA Key 4" ,
        "user2IDField" : ""
    }
}

```

3.2.4 Web Service Lock Transactions - Reassign Lock By Serial Number

CenTran Programming Reference Manual

This transaction is used to reassign the lock specified by lock serial number and mode to a lock user or users. This applies to FLM and Route modes only.

Transaction information required:

- Lock Serial Number
- Lock Mode (F/R)
- First User Name
- Second User Name (Only if the lock is in dual user operation.)
- Lock Sequence (Optional. This applies to route dispatches only. Can be set to 0 if not used, or is a range of 1 to 3 for a valid lock sequence.)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/reassign
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/reassign
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_REASSIGN_LOCK>
  <SerialNumber>1000107</SerialNumber>
  <LockMode>F</LockMode>
  <User1ID>F4</User1ID>
  <User2ID/>
  <LockSequence>0</LockSequence>
  <DispatcherID/>
</TRANSACTION_REASSIGN_LOCK>
```

Example Output Transaction:

```
<RESPONSE_REASSIGN_LOCK>
  <TRANSACTION_REASSIGN_LOCK>
    <SerialNumber>1000107</SerialNumber>
    <LockMode>F</LockMode>
    <User1ID>F4</User1ID>
    <User2ID/>
    <LockSequence>0</LockSequence>
    <DispatcherID/>
  </TRANSACTION_REASSIGN_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>The lock reassign succeeded.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-01-23T15:53:55.31Z</StartDate>
    <LastUsedDate>2012-04-16T17:17:23.627Z</LastUsedDate>
    <CustomerNumber>928503</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>3</AuditCount>
    <IfLockOpen>true</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
```

```

<IfActivationCall>false</IfActivationCall>
<IfUnassignedOpenCall>false</IfUnassignedOpenCall>
<Seal>1901</Seal>
<PreviousSeal>21289</PreviousSeal>
<RouteSeal1>1901</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>21289</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>792484</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>877356</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName>AA001</GroupName>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>123-4567-8910</Description1>
<Description2>2013-10-17</Description2>
<Description3>#34</Description3>
<Description4>Joe Bob Jr.</Description4>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1>Cylinder</UserDefined1>
<UserDefined2>Joe Bob Sr.</UserDefined2>
<UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
<UserDefined4>Jane Bob</UserDefined4>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>false</IfLastRoute1Issued>
<IfLastRoute2Issued>false</IfLastRoute2Issued>
<IfLastRoute3Issued>false</IfLastRoute3Issued>
<User1ID1>F4</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CENTRAN</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2012-04-16T17:17:23.627Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>F3</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2012-04-13T14:27:14.703Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2012-04-16T17:15:32.117Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>My new service branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>1390</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2 </LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
</LockRecord>

```



```
</RESPONSE_REASSIGN_LOCK>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran reassign lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

itemElementNameField - Enumeration of itemField field contents:

Value	Enumerated Value	Meaning
0	LockName	itemField contains lock name.
1	SerialNumber	itemField contains lock serial number.

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/reassign
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/reassign
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "itemElementNameField" : 1 ,
  "itemField" : "1037890" ,
  "lockModeField" : 0 ,
  "lockSequenceField" : null ,
  "user1IDField" : "F4" ,
  "user2IDField" : ""
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "7" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
  }
}
```

```

"cityField" : "" ,
"closeSealLengthField" : "4" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "839474" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "918075" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : true ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "918075" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "301" ,
"lastUsedDateField" : "\\Date(1408990355833)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\\Date(1408990355833)\" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\\Date(1408979682850)\" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "815640" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\\Date(1408979359863)\" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "25856" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "25856" ,
"previousUser1ID1Field" : "FLM SHA Key 6" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,

```

```

        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "9775" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "9775" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\/Date(1393346881577)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "F4" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "The lock reassign succeeded."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_REASSIGN_LOCKField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "itemElementNameField" : 1 ,
        "itemField" : "1037890" ,
        "lockModeField" : 0 ,
        "lockSequenceField" : null ,
        "user1IDField" : "F4" ,
        "user2IDField" : ""
    }
}

```

3.2.5 Web Service Lock Transactions - Unassign Lock By Name

CenTran Programming Reference Manual

This transaction is used to unassign the lock specified by lock name and mode. This applies to FLM mode only.

Transaction information required:

- Lock Name
- Lock Mode (F/R)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/unassign
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/unassign
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_UNASSIGN_LOCK>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <DispatcherID/>
</TRANSACTION_UNASSIGN_LOCK>
```

Example Output Transaction:

```
<RESPONSE_UNASSIGN_LOCK>
  <TRANSACTION_UNASSIGN_LOCK>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>F</LockMode>
    <DispatcherID/>
  </TRANSACTION_UNASSIGN_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>The lock unassign succeeded. The unassigned users: F4</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-01-23T15:53:55.31Z</StartDate>
    <LastUsedDate>2012-04-16T17:17:23.627Z</LastUsedDate>
    <CustomerNumber>928503</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>3</AuditCount>
    <IfLockOpen>true</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>true</IfUnassignedOpenCall>
    <Seal>1901</Seal>
    <PreviousSeal>21289</PreviousSeal>
    <RouteSeal1>1901</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>21289</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
```

```

<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>792484</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>877356</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName>AA001</GroupName>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>123-4567-8910</Description1>
<Description2>2013-10-17</Description2>
<Description3>#34</Description3>
<Description4>Joe Bob Jr.</Description4>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1>Cylinder</UserDefined1>
<UserDefined2>Joe Bob Sr.</UserDefined2>
<UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
<UserDefined4>Jane Bob</UserDefined4>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1/>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CENTRAN</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2012-04-16T17:17:23.627Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>F3</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2012-04-13T14:27:14.703Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2012-04-16T17:15:32.117Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>My new service branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>1390</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2 </LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
</LockRecord>
</RESPONSE_UNASSIGN_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran dispatch lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

itemElementNameField - Enumeration of itemField field contents:

Value	Enumerated Value	Meaning
0	LockName	itemField contains lock name.
1	SerialNumber	itemField contains lock serial number.

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/unassign
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/unassign
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "itemElementNameField" : 0 ,
  "itemField" : "Gen2 Swingbolt 1037890" ,
  "lockModeField" : 0
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "7" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "839474" ,
    "description1Field" : "" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "CentranSS" ,
    "dispatcherID2Field" : "" ,

```

```

"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "918075" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : true ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : true ,
"issuedComboUser1Seq1Field" : "918075" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "301" ,
"lastUsedDateField" : "\Date(1408990355833)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1408990355833)\" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1408979682850)\" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "815640" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1408979359863)\" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "25856" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "25856" ,
"previousUser1ID1Field" : "FLM SHA Key 6" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "9775" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "9775" ,
"serialNumberField" : "001037890" ,
"serviceBranchField" : "" ,
"startDateField" : "\Date(1393346881577)\" ,
"stateField" : "" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "" ,

```



```

        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "The lock unassign succeeded. The unassigned users: F4"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_UNASSIGN_LOCKField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "itemElementNameField" : 0 ,
        "itemField" : "Gen2 Swingbolt 1037890" ,
        "lockModeField" : 0
    }
}

```

3.2.6 Web Service Lock Transactions - Unassign Lock By Serial Number

CenTran Programming Reference Manual

This transaction is used to unassign the lock specified by lock serial number and mode. This applies to FLM mode only.

Transaction information required:

- Lock Serial Number
- Lock Mode (F/R)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/unassign
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/unassign
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_UNASSIGN_LOCK>
  <SerialNumber>1000107</SerialNumber>
  <LockMode>F</LockMode>
  <DispatcherID/>
</TRANSACTION_UNASSIGN_LOCK>
```

Example Output Transaction:

```
<RESPONSE_UNASSIGN_LOCK>
  <TRANSACTION_UNASSIGN_LOCK>
    <SerialNumber>1000107</SerialNumber>
    <LockMode>F</LockMode>
    <DispatcherID/>
  </TRANSACTION_UNASSIGN_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>The lock unassign succeeded. The unassigned users: F4</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-01-23T15:53:53.31Z</StartDate>
    <LastUsedDate>2012-04-16T17:17:23.627Z</LastUsedDate>
    <CustomerNumber>928503</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>3</AuditCount>
    <IfLockOpen>true</IfLockOpen>
    <IfForcedClosed>false</IfForcedClosed>
    <IfRoute1Issued>false</IfRoute1Issued>
    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>true</IfUnassignedOpenCall>
    <Seal>1901</Seal>
    <PreviousSeal>21289</PreviousSeal>
    <RouteSeal1>1901</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>21289</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
```

```

<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>792484</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>877356</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName>AA001</GroupName>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>123-4567-8910</Description1>
<Description2>2013-10-17</Description2>
<Description3>#34</Description3>
<Description4>Joe Bob Jr.</Description4>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1>Cylinder</UserDefined1>
<UserDefined2>Joe Bob Sr.</UserDefined2>
<UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
<UserDefined4>Jane Bob</UserDefined4>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>false</IfLastRoute1Issued>
<IfLastRoute2Issued>false</IfLastRoute2Issued>
<IfLastRoute3Issued>false</IfLastRoute3Issued>
<User1ID1/>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CENTRAN</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2012-04-16T17:17:23.627Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>F3</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2012-04-13T14:27:14.703Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2012-04-16T17:15:32.117Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>My new service branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>1390</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
</LockRecord>
</RESPONSE_UNASSIGN_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time

conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran dispatch lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

itemElementNameField - Enumeration of itemField field contents:

Value	Enumerated Value	Meaning
0	LockName	itemField contains lock name.
1	SerialNumber	itemField contains lock serial number.

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/unassign
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/unassign
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "itemElementNameField" : 1 ,
  "itemField" : "1037890" ,
  "lockModeField" : 0
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "7" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "839474" ,
    "description1Field" : "" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
  }
}
```

```

"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "918075" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : true ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : true ,
"issuedComboUser1Seq1Field" : "918075" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "301" ,
"lastUsedDateField" : "\Date(1408990355833)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1408990355833)\" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1408979682850)\" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "815640" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1408979359863)\" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "25856" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "25856" ,
"previousUser1ID1Field" : "FLM SHA Key 6" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "9775" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "9775" ,
"serialNumberField" : "001037890" ,
"serviceBranchField" : "" ,
"startDateField" : "\Date(1393346881577)\" ,
"stateField" : "" ,
"timeZoneIDField" : "Eastern Standard Time" ,

```

```

        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "The lock unassign succeeded. The unassigned users: F4"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tRANSACTION_UNASSIGN_LOCKField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "itemElementNameField" : 1 ,
        "itemField" : "1037890" ,
        "lockModeField" : 0
    }
}

```

3.2.7 Web Service Lock Transactions - Close Lock By Name

CenTran Programming Reference Manual

This transaction is used to close the lock specified by lock name and mode using the given close seal. This applies to FLM and Route modes only.

Transaction information required:

- Lock Name
- Lock Mode (F/R)
- Close Seal (2 digits for Cencon Gen 1 locks, 4 digits for Cencon Gen 2 locks)
- Lock Sequence (Optional. This applies to route dispatches only. Can be set to 0 if not used, or is a range of 1 to 3 for a valid lock sequence.)
- Flag for is force close for skipped lock sequence (Optional. This applies to route dispatches only.)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/close
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/close
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_CLOSE_LOCK>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <CloseSeal>1745</CloseSeal>
  <LockSequence>0</LockSequence>
  <IfForcedClosed>0</IfForcedClosed>
  <DispatcherID/>
</TRANSACTION_CLOSE_LOCK>
```

Example Output Transaction:

```
<RESPONSE_CLOSE_LOCK>
  <TRANSACTION_CLOSE_LOCK>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>F</LockMode>
    <CloseSeal>1745</CloseSeal>
    <LockSequence>0</LockSequence>
    <IfForcedClosed>0</IfForcedClosed>
    <DispatcherID/>
  </TRANSACTION_CLOSE_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>The lock close succeeded.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-01-23T15:53:55.31Z</StartDate>
    <LastUsedDate>2012-04-16T18:53:31.022Z</LastUsedDate>
    <CustomerNumber>928503</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>4</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
```



```

<IfUnassignedOpenCall>false</IfUnassignedOpenCall>
<Seal>1901</Seal>
<PreviousSeal>21289</PreviousSeal>
<RouteSeal1>1901</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>21289</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>470716</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>877356</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName>AA001</GroupName>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>123-4567-8910</Description1>
<Description2>2013-10-17</Description2>
<Description3>#34</Description3>
<Description4>Joe Bob Jr.</Description4>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1>Cylinder</UserDefined1>
<UserDefined2>Joe Bob Sr.</UserDefined2>
<UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
<UserDefined4>Jane Bob</UserDefined4>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>false</IfLastRoute1Issued>
<IfLastRoute2Issued>false</IfLastRoute2Issued>
<IfLastRoute3Issued>false</IfLastRoute3Issued>
<User1ID1>F3</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CENTRAN</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2012-04-16T17:17:23.627Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2012-04-16T18:53:31.022Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>F3</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2012-04-13T14:27:14.703Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2012-04-16T17:15:32.117Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>My new service branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>1390</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2 </LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
</LockRecord>
</RESPONSE_CLOSE_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran close lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

itemElementNameField - Enumeration of itemField field contents:

Value	Enumerated Value	Meaning
0	LockName	itemField contains lock name.
1	SerialNumber	itemField contains lock serial number.

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/close
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/close
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "closeSealField" : "7528" ,
  "dispatcherIDField" : null ,
  "ifForcedClosedField" : false ,
  "ifForcedClosedFieldSpecified" : true ,
  "itemElementNameField" : 0 ,
  "itemField" : "Gen2 Swingbolt 1037890" ,
  "lockModeField" : 0 ,
  "lockSequenceField" : "0"
}
```

Example Output Transaction - JSON:

```
{
  "ifCloseSealDuressField" : false ,
  "ifCloseSealDuressFieldSpecified" : false ,
  "ifCloseSealLowBatteryField" : false ,
  "ifCloseSealLowBatteryFieldSpecified" : false ,
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "7" ,

```

```

"bankBranchNameField" : "" ,
"bankModeUserNameArrayField" : null ,
"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "" ,
"closeSealLengthField" : "4" ,
"closeTime1Field" : "\Date(1408979682851)\/" ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "839474" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "815640" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "301" ,
"lastUsedDateField" : "\Date(1408979682851)\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1408979359863)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1408979318460)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "649621" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1408739127870)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "30904" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "30904" ,
"previousUser1ID1Field" : "FLM SHA Key 6" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,

```

```

        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "25856" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "25856" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\Date(1393346881577)\" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "FLM SHA Key 6" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "The lock close succeeded."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_CLOSE_LOCKField" :
    {
        "closeSealField" : "7528" ,
        "dispatcherIDField" : "CentranSS" ,
        "ifForcedClosedField" : false ,
        "ifForcedClosedFieldSpecified" : false ,
        "itemElementNameField" : 0 ,
        "itemField" : "Gen2 Swingbolt 1037890" ,
        "lockModeField" : 0 ,
        "lockSequenceField" : "0"
    }
}

```

3.2.8 Web Service Lock Transactions - Close Lock By Serial Number

CenTran Programming Reference Manual

This transaction is used to close the lock specified by lock serial number and mode using the given close seal. This applies to FLM and Route modes only.

Transaction information required:

- Lock Serial Number
- Lock Mode (F/R)
- Close Seal (2 digits for Cencon Gen 1 locks, 4 digits for Cencon Gen 2 locks)
- Lock Sequence (Optional. This applies to route dispatches only. Can be set to 0 if not used, or is a range of 1 to 3 for a valid lock sequence.)
- Flag for is force close for skipped lock sequence (Optional. This applies to route dispatches only.)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/close
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/close
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_CLOSE_LOCK>
  <SerialNumber>I000107</SerialNumber>
  <LockMode>F</LockMode>
  <CloseSeal>1745</CloseSeal>
  <LockSequence>0</LockSequence>
  <IfForcedClosed>0</IfForcedClosed>
  <DispatcherID/>
</TRANSACTION_CLOSE_LOCK>
```

Example Output Transaction:

```
<RESPONSE_CLOSE_LOCK>
  <TRANSACTION_CLOSE_LOCK>
    <SerialNumber>I000107</SerialNumber>
    <LockMode>F</LockMode>
    <CloseSeal>1745</CloseSeal>
    <LockSequence>0</LockSequence>
    <IfForcedClosed>0</IfForcedClosed>
    <DispatcherID/>
  </TRANSACTION_CLOSE_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>The lock close succeeded.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-01-23T15:53:55.31Z</StartDate>
    <LastUsedDate>2012-04-16T18:53:31.022Z</LastUsedDate>
    <CustomerNumber>928503</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>4</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
```

```

<IfUnassignedOpenCall>false</IfUnassignedOpenCall>
<Seal>1901</Seal>
<PreviousSeal>21289</PreviousSeal>
<RouteSeal1>1901</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>21289</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>470716</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>877356</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName>AA001</GroupName>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>123-4567-8910</Description1>
<Description2>2013-10-17</Description2>
<Description3>#34</Description3>
<Description4>Joe Bob Jr.</Description4>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1>Cylinder</UserDefined1>
<UserDefined2>Joe Bob Sr.</UserDefined2>
<UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
<UserDefined4>Jane Bob</UserDefined4>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>false</IfLastRoute1Issued>
<IfLastRoute2Issued>false</IfLastRoute2Issued>
<IfLastRoute3Issued>false</IfLastRoute3Issued>
<User1ID1>F3</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CENTRAN</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2012-04-16T17:17:23.627Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2012-04-16T18:53:31.022Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>F3</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2012-04-13T14:27:14.703Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2012-04-16T17:15:32.117Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>My new service branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>1390</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2 </LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
</LockRecord>
</RESPONSE_CLOSE_LOCK>

```



JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran close lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

itemElementNameField - Enumeration of itemField field contents:

Value	Enumerated Value	Meaning
0	LockName	itemField contains lock name.
1	SerialNumber	itemField contains lock serial number.

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example

Input Transaction Format (HTTP Post) - JSON:

`https://{host}/CentranServiceJSON/rest/lock/close`

Example Input Transaction (HTTP Post) - JSON:

`https://kml-3242.domain.local/CentranServiceJSON/rest/lock/close`

Example Input Transaction (HTTP Body) - JSON:

```
{
  "closeSealField" : "3607" ,
  "dispatcherIDField" : null ,
  "ifForcedClosedField" : false ,
  "ifForcedClosedFieldSpecified" : true ,
  "itemElementNameField" : 1 ,
  "itemField" : "1037890" ,
  "lockModeField" : 0 ,
  "lockSequenceField" : "0"
}
```

Example Output Transaction - JSON:

```
{
  "ifCloseSealDuressField" : false ,
  "ifCloseSealDuressFieldSpecified" : false ,
  "ifCloseSealLowBatteryField" : false ,
  "ifCloseSealLowBatteryFieldSpecified" : false ,
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,

```



```

"auditCountField" : "8" ,
"bankBranchNameField" : "" ,
"bankModeUserNameArrayField" : null ,
"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "" ,
"closeSealLengthField" : "4" ,
"closeTime1Field" : "\/Date(1409161010390)\/" ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "839474" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "828097" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "301" ,
"lastUsedDateField" : "\/Date(1409161010390)\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1408990355833)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\/Date(1408979682850)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "815640" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\/Date(1408979359863)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "25856" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "25856" ,
"previousUser1ID1Field" : "FIM SHA Key 6" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,

```

```

        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "9775" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "9775" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\Date(1393346881577)\" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "FLM SHA Key 4" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "The lock close succeeded."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_CLOSE_LOCKField" :
    {
        "closeSealField" : "3607" ,
        "dispatcherIDField" : "CentranSS" ,
        "ifForcedClosedField" : false ,
        "ifForcedClosedFieldSpecified" : false ,
        "itemElementNameField" : 1 ,
        "itemField" : "1037890" ,
        "lockModeField" : 0 ,
        "lockSequenceField" : "0"
    }
}

```

3.2.9 Web Service Lock Transactions - Read Lock Data By Name

CenTran Programming Reference Manual

This transaction is used to read the available Cencon database data for a lock based off of lock name and mode.

Transaction information required:

- Lock Name
- Lock Mode (F/R/B)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

LockRecord:

Refer to the documentation for [Section 2.2.5 Read Lock Data](#) for details on the lock record data returned.

Example

Input Transaction Format:

```
https://{host}/CentranService/rest/lock-names/{LOCKNAME}/{MODE}/data
```

Example Input Transaction:

```
https://kml-3242.domain.local/CentranService/rest/lock-names/VLK008/F/data
```

Example Output Transaction:

```
<RESPONSE READ_LOCK>
  <TRANSACTION_READ_LOCK>
    <LockName>VLK008</LockName>
    <LockMode>F</LockMode>
    <DispatcherID/>
  </TRANSACTION_READ_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock record found in the database.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>VLK008</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T22:13:58Z</StartDate>
    <LastUsedDate>2012-03-01T19:00:12.137Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>532008</SerialNumber>
    <AuditCount>6</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>true</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>135</Seal>
    <PreviousSeal>129</PreviousSeal>
    <RouteSeal1>135</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>129</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>633551</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
```

```

<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>164634</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2/>
<Description3/>
<Description4/>
<CustomerID/>
<ATMSerialNumber/>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>F3</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CENTRAN</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2011-10-27T14:01:13.913Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2012-03-01T19:00:12.137Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>CF01</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2009-06-18T14:30:11Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2011-01-07T14:07:37.043Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch/>
<Address1/>
<Address2/>
<City/>
<State/>
<ZIP/>
<Country/>
<KeyCloseSeal>1246576928</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>1246576928</BankOpenDelay>
<BankOpenWindow>1246576928</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus/>
<LockDispatchStatus/>
<TimeZoneID/>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
</LockRecord>
</RESPONSE_READ_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example

Input Transaction Format (HTTP Get) - JSON:

https://{host}/CentranServiceJSON/rest/lock-names/{LOCKNAME}/{MODE}/data

Example Input Transaction (HTTP Get) - JSON:

https://kml-3242.domain.local/CenTranServiceJSON/rest/lock-names/VLK008/R/data

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "",
    "address1Field" : "",
    "address2Field" : "",
    "auditCountField" : "16",
    "bankBranchNameField" : "",
    "bankModeUserNameArrayField" : null,
    "bankOpenDelayField" : "0",
    "bankOpenWindowField" : "0",
    "cityField" : "",
    "closeSealLengthField" : "4",
    "closeTime1Field" : null,
    "closeTime2Field" : null,
    "closeTime3Field" : null,
    "countryField" : "",
    "customerIDField" : "Test",
    "customerNumberField" : "827049",
    "description1Field" : "aaaaaaaaaaaaaaaa",
    "description2Field" : "",
    "description3Field" : "",
    "description4Field" : "",
    "dispatcherID1Field" : "MHG\\LSTALL",
    "dispatcherID2Field" : "",
    "dispatcherID3Field" : "",
    "displayIssuedComboUser1Seq1Field" : "239868",
    "displayIssuedComboUser1Seq2Field" : "",
    "displayIssuedComboUser1Seq3Field" : "",
    "displayIssuedComboUser2Seq1Field" : "",
    "displayIssuedComboUser2Seq2Field" : "",
    "displayIssuedComboUser2Seq3Field" : "",
    "duressDateField" : null,
    "groupNameField" : " ",
    "ifActivationCallField" : false,
    "ifDualModeField" : false,
    "ifForcedClosedField" : true,
    "ifLastRoute1IssuedField" : false,
    "ifLastRoute2IssuedField" : false,
    "ifLastRoute3IssuedField" : false,
    "ifLegacyImportField" : false,
    "ifLockOpenField" : true,
    "ifNoAlarmField" : false,
    "ifPreviousRoute1IssuedField" : false,
    "ifPreviousRoute2IssuedField" : false,
    "ifPreviousRoute3IssuedField" : false,
  }
}
```

```

        "ifRoute1IssuedField" : false ,
        "ifRoute2IssuedField" : false ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "239868" ,
        "issuedComboUser1Seq2Field" : "0" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "29241" ,
        "lastUsedDateField" : "\Date(1400784883677)\" ,
        "lockActivationStatusField" : "gen2" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK008" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\Date(1400784883677)\" ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\Date(1400784874240)\" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "674388" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\Date(1400784436667)\" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "31019" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "31019" ,
        "previousUser1ID1Field" : "rjrb8" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "35177" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "35177" ,
        "serialNumberField" : "001378237" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\Date(1362669807477)\" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "Route SHA Key 2" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock record found in the database."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,

```

```
"transaction_Read_LockField" :  
{  
  "dispatcherIDField" : "CentranSS" ,  
  "itemElementNameField" : 0 ,  
  "itemField" : "VLK008" ,  
  "lockModeField" : 1  
}
```


3.2.10 Web Service Lock Transactions - Read Lock Data By Serial Number

CenTran Programming Reference Manual

This transaction is used to read the available Cencon database data for a lock based off of lock serial number and mode.

Transaction information required:

- Lock Serial Number
- Lock Mode (F/R/B)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

LockRecord:

Refer to the documentation for [Section 2.2.5 Read Lock Data](#) for details on the lock record data returned.

Example

Input Transaction Format:

```
https://{host}/CentranService/rest/lock-serialnumbers/{SERIALNUMBER}/{MODE}/data
```

Example Input Transaction:

```
https://kml-3242.domain.local/CentranService/rest/lock-serialnumbers/532008/F/data
```

Example Output Transaction:

```
<RESPONSE READ_LOCK>
  <TRANSACTION_READ_LOCK>
    <SerialNumber>532008</SerialNumber>
    <LockMode>F</LockMode>
    <DispatcherID/>
  </TRANSACTION_READ_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock record found in the database.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>VLK008</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T22:13:58Z</StartDate>
    <LastUsedDate>2012-03-01T19:00:12.137Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>532008</SerialNumber>
    <AuditCount>6</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>true</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>135</Seal>
    <PreviousSeal>129</PreviousSeal>
    <RouteSeal1>135</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>129</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>633551</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
```

```

<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>164634</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2/>
<Description3/>
<Description4/>
<CustomerID/>
<ATMSerialNumber/>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>F3</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CENTRAN</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2011-10-27T14:01:13.913Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2012-03-01T19:00:12.137Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>CF01</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2009-06-18T14:30:11Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2011-01-07T14:07:37.043Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch/>
<Address1/>
<Address2/>
<City/>
<State/>
<ZIP/>
<Country/>
<KeyCloseSeal>1246576928</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>1246576928</BankOpenDelay>
<BankOpenWindow>1246576928</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus/>
<LockDispatchStatus/>
<TimeZoneID/>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
</LockRecord>
</RESPONSE_READ_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example

Input Transaction Format (HTTP Get) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock-serialnumbers/{SERIALNUMBER}/{MODE}/data
```

Example Input Transaction (HTTP Get) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock-serialnumbers/1000116/B/data
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "North Bank Branch" ,
    "bankModeUserNameArrayField" :
    [
      "LeeSHABank" ,
      "BU01" ,
      "BU02" ,
      "BU03" ,
      "BU04" ,
      "BU05" ,
      "BU06" ,
      "BU07" ,
      "Bank SHA Key 10001" ,
      "Bank SHA Key 10002" ,
      "Bank SHA Key 10003"
    ] ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "0" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "634878" ,
    "description1Field" : "" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
  }
}
```

```

"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "0" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\Date(1394135946060)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "Gen2Swingbolt 1000116" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "10.108.6.103" ,
"networkPortField" : "35005" ,
"openTime1Field" : null ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : null ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "0" ,
"previousUser1ID1Field" : "" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "0" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "0" ,
"serialNumberField" : "001000116" ,
"serviceBranchField" : "North Branch" ,
"startDateField" : "\Date(1386964869483)\" ,
"stateField" : "KY" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,

```

```

        "userDefined4Field" : "" ,
        "zipField" : "40508"
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock record found in the database."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "transactionReadLockField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "itemElementNameField" : 1 ,
        "itemField" : "1000116" ,
        "lockModeField" : 2
    }
}

```

3.2.11 Web Service Lock Transactions - Update Lock Data

CenTran Programming Reference Manual

This transaction is used to update data for the specified lock. The lock is specified by either lock serial number and mode or lock name and mode.

Transaction information required:

- Lock Name (LockName) or Lock Serial Number (SerialNumber)
- Lock Mode (F/R/B)
- Lock data to be updated:
 - GroupName
 - CustomerID
 - ATMSerialNumber
 - Description1
 - Description2
 - Description3
 - Description4
 - UserDefined1
 - UserDefined2
 - UserDefined3
 - UserDefined4
 - Region
 - ServiceBranch
 - Address1
 - Address2
 - City
 - State
 - ZIP
 - Country
 - TimeZoneID

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/update
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/update
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_UPDATE_LOCK>
  <UpdateLockRecord>
    <UserDefined4>Even more user defined items...</UserDefined4>
    <UserDefined3>More user defined items...</UserDefined3>
    <Description2>Event more new description...</Description2>
    <Description1>Some new description...</Description1>
    <LockMode>F</LockMode>
    <LockName>VLK008</LockName>
  </UpdateLockRecord>
  <DispatcherID/>
</TRANSACTION_UPDATE_LOCK>
```

Example Output Transaction:

```
<RESPONSE_UPDATE_LOCK>
  <TRANSACTION_UPDATE_LOCK>
    <UpdateLockRecord>
      <UserDefined4>Even more user defined items...</UserDefined4>
      <UserDefined3>More user defined items...</UserDefined3>
      <Description2>Event more new description...</Description2>
      <Description1>Some new description...</Description1>
      <LockMode>F</LockMode>
      <LockName>VLK008</LockName>
```

```

    </UpdateLockRecord>
    <DispatcherID/>
  </TRANSACTION_UPDATE_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>The lock update succeeded.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>VLK008</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T22:13:58Z</StartDate>
    <LastUsedDate>2012-03-01T19:00:12.137Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>532008</SerialNumber>
    <AuditCount>6</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>true</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>135</Seal>
    <PreviousSeal>129</PreviousSeal>
    <RouteSeal1>135</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>129</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>633551</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>164634</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1>Some new description...</Description1>
    <Description2>Event more new description...</Description2>
    <Description3/>
    <Description4/>
    <CustomerID/>
    <ATMSerialNumber/>
    <UserDefined1/>
    <UserDefined2/>
    <UserDefined3>More user defined items...</UserDefined3>
    <UserDefined4>Even more user defined items...</UserDefined4>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>>false</IfLastRoute3Issued>
    <User1ID1>F3</User1ID1>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>
    <RouteName3/>
    <DispatcherID1>CENTRAN</DispatcherID1>
    <DispatcherID2/>
    <DispatcherID3/>
    <OpenTime1>2011-10-27T14:01:13.913Z</OpenTime1>
    <OpenTime2/>
    <OpenTime3/>
    <CloseTime1>2012-03-01T19:00:12.137Z</CloseTime1>
    <CloseTime2/>
    <CloseTime3/>
    <IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
    <IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
    <IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
    <PreviousUser1ID1>CF01</PreviousUser1ID1>
    <PreviousUser1ID2/>
    <PreviousUser1ID3/>
    <PreviousUser2ID1/>
    <PreviousUser2ID2/>
    <PreviousUser2ID3/>
    <PreviousRouteName1/>
    <PreviousRouteName2/>
    <PreviousRouteName3/>
  </LockRecord>

```



```

<PreviousOpenTime1>2009-06-18T14:30:11Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2011-01-07T14:07:37.043Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch/>
<Address1/>
<Address2/>
<City/>
<State/>
<ZIP/>
<Country/>
<KeyCloseSeal>1246576928</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>1246576928</BankOpenDelay>
<BankOpenWindow>1246576928</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus/>
<LockDispatchStatus/>
<TimeZoneID/>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
</LockRecord>
</RESPONSE_UPDATE_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran update lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

itemElementNameField - Enumeration of itemField field contents:

Value	Enumerated Value	Meaning
0	LockName	itemField contains lock name.
1	SerialNumber	itemField contains lock serial number.

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/update
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/update
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "updateLockRecordField" :
  {
    "aTMSerialNumberField" : "7453" ,
    "address1Field" : "430 W Vine St" ,
    "address2Field" : null ,
    "cityField" : "Lexington" ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank" ,
    "description1Field" : "ATM #7453" ,
    "description2Field" : null ,
    "description3Field" : null ,
    "description4Field" : null ,
    "groupNameField" : null ,
    "lockModeField" : 0 ,
    "lockNameField" : "Gen2Lock3" ,
    "regionField" : "KENTUCKY" ,
    "serialNumberField" : null ,
    "serviceBranchField" : "Downtown" ,
    "stateField" : "KY" ,
    "timeZoneIDField" : null ,
    "userDefined1Field" : "See store manager." ,
    "userDefined2Field" : null ,
    "userDefined3Field" : null ,
    "userDefined4Field" : null ,
    "zIPField" : "40507"
  }
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "7453" ,
    "address1Field" : "430 W Vine St" ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "123456" ,
    "description1Field" : "ATM #7453" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : "" ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : false ,
    "ifForcedClosedField" : false ,
    "ifLastRoute1IssuedField" : false ,
    "ifLastRoute2IssuedField" : false ,
    "ifLastRoute3IssuedField" : false ,
    "ifLegacyImportField" : false ,
    "ifLockOpenField" : false ,
    "ifNoAlarmField" : false ,
    "ifPreviousRoute1IssuedField" : false ,
    "ifPreviousRoute2IssuedField" : false ,
    "ifPreviousRoute3IssuedField" : false ,
    "ifRoute1IssuedField" : false ,
    "ifRoute2IssuedField" : false ,
    "ifRoute3IssuedField" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifUnassignedOpenCallField" : false ,
    "issuedComboUser1Seq1Field" : "0" ,
    "issuedComboUser1Seq2Field" : "0" ,
    "issuedComboUser1Seq3Field" : "0" ,
    "issuedComboUser2Seq1Field" : "0" ,
    "issuedComboUser2Seq2Field" : "0" ,
    "issuedComboUser2Seq3Field" : "0" ,
    "keyCloseSealField" : "4413" ,

```

```

        "lastUsedDateField" : null ,
        "lockActivationStatusField" : "gen2" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 0 ,
        "lockNameField" : "Gen2Lock3" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : null ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : null ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "0" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : null ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "0" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "0" ,
        "previousUser1ID1Field" : "" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 2 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "0" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "4413" ,
        "serialNumberField" : "123456791" ,
        "serviceBranchField" : "Downtown" ,
        "startDateField" : "\Date(1234541505000)\\" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "See store manager." ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : "40507"
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "The lock update succeeded."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_UPDATE_LOCKField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "updateLockRecordField" :
        {
            "aTMSerialNumberField" : "7453" ,
            "address1Field" : "430 W Vine St" ,
            "address2Field" : null ,
            "cityField" : "Lexington" ,
            "countryField" : "USA" ,
            "customerIDField" : "North Bank" ,
            "description1Field" : "ATM #7453" ,

```

```
        "description2Field" : null ,
        "description3Field" : null ,
        "description4Field" : null ,
        "groupNameField" : null ,
        "lockModeField" : 0 ,
        "lockNameField" : "Gen2Lock3" ,
        "regionField" : "KENTUCKY" ,
        "serialNumberField" : null ,
        "serviceBranchField" : "Downtown" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : null ,
        "userDefined1Field" : "See store manager." ,
        "userDefined2Field" : null ,
        "userDefined3Field" : null ,
        "userDefined4Field" : null ,
        "zIPField" : "40507"
    }
}
```

3.2.12 Web Service Lock Transactions - Rename Lock

CenTran Programming Reference Manual

This transaction is used to rename the specified lock. The lock is specified by either lock serial number and mode or lock name and mode.

Transaction information required:

- Lock Name (LockName) or Lock Serial Number (SerialNumber)
- Lock Mode (F/R/B)
- New Lock Name

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/rename
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/rename
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_RENAME_LOCK>
  <LockName>VLK016</LockName>
  <LockMode>F</LockMode>
  <NewLockName>VLK-New Lock Name</NewLockName>
  <DispatcherID/>
</TRANSACTION_RENAME_LOCK>
```

Example Output Transaction:

```
<RESPONSE_RENAME_LOCK>
  <TRANSACTION_RENAME_LOCK>
    <LockName>VLK016</LockName>
    <LockMode>F</LockMode>
    <NewLockName>VLK-New Lock Name</NewLockName>
    <DispatcherID/>
  </TRANSACTION_RENAME_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock successfully renamed from VLK016 to VLK-New Lock Name.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>VLK016</LockName>
    <RecordType>A</RecordType>
    <StartDate>2009-09-16T14:11:53.243Z</StartDate>
    <LastUsedDate>2011-05-13T18:54:27.883Z</LastUsedDate>
    <CustomerNumber>591676</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>532016</SerialNumber>
    <AuditCount>2</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>true</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>89</Seal>
    <PreviousSeal>87</PreviousSeal>
    <RouteSeal1>89</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
```

```

<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>205717</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2/>
<Description3/>
<Description4/>
<CustomerID/>
<ATMSerialNumber/>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>false</IfLastRoute1Issued>
<IfLastRoute2Issued>false</IfLastRoute2Issued>
<IfLastRoute3Issued>false</IfLastRoute3Issued>
<User1ID1>nf2</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>CENTRAN</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2009-09-16T14:11:52.583Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2009-09-16T14:12:10.657Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>the new service branch</ServiceBranch>
<Address1/>
<Address2/>
<City/>
<State/>
<ZIP/>
<Country/>
<KeyCloseSeal>87</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen1</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID/>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
</LockRecord>
</RESPONSE_RENAME_LOCK>

```

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran rename lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

itemElementNameField - Enumeration of itemField field contents:

Value	Enumerated Value	Meaning
0	LockName	itemField contains lock name.
1	SerialNumber	itemField contains lock serial number.

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/rename
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/rename
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "itemElementNameField" : 0 ,
  "itemField" : "Gen2Lock6" ,
  "lockModeField" : 0 ,
  "newLockNameField" : "My New Gen2Lock6 Name"
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "2" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : "\/Date(1245351811000)\/" ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "123456" ,
    "description1Field" : "" ,

```



```

"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "MHG\agoverdhan" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "6205" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "36874" ,
"lastUsedDateField" : "\Date(1268679325273)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2Lock6" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1245351524000)\" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : null ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "36874" ,
"previousUser1ID1Field" : "" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "320" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "320" ,
"serialNumberField" : "123456796" ,
"serviceBranchField" : "North Branch" ,

```

```

        "startDateField" : "\Date(1235578569000)\\" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "F684711" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock successfully renamed from Gen2Lock6 to My New Gen2Lock6 Name."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_RENAME_LOCKField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "itemElementNameField" : 0 ,
        "itemField" : "Gen2Lock6" ,
        "lockModeField" : 0 ,
        "newLockNameField" : "My New Gen2Lock6 Name"
    }
}

```

3.2.13 Web Service Lock Transactions - Delete Shelved Lock By Name

CenTran Programming Reference Manual

This transaction deletes a shelved lock from the Cencon database by lock name and mode. This is supported for shelved FLM, Route, or Bank mode locks. If the lock to be deleted is not in a shelved state, then the lock must first be shelved either using an SA key or by remote communications. This transaction deletes only one mode of a lock from the Cencon database. A lock can have up to three entries in the database, one for FLM, Route and Bank modes.

Transaction information required:

- Lock Name
- Lock Mode (F/R/B)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Deleted lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/delete
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/delete
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_DELETE_LOCK>
  <LockName>VLK111</LockName>
  <LockMode>F</LockMode>
  <DispatcherID/>
</TRANSACTION_DELETE_LOCK>
```

Example Output Transaction:

```
<RESPONSE_DELETE_LOCK>
  <TRANSACTION_DELETE_LOCK>
    <LockName>VLK111</LockName>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock VLK111 successfully deleted.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>VLK111</LockName>
    <RecordType>D</RecordType>
    <StartDate>2003-03-28T13:56:56Z</StartDate>
    <LastUsedDate>2013-01-28T20:49:58.187Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>532111</SerialNumber>
    <AuditCount>3</AuditCount>
    <IfLockOpen>false</IfLockOpen>
    <IfForcedClosed>false</IfForcedClosed>
    <IfRoute1Issued>false</IfRoute1Issued>
    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
    <Seal>5</Seal>
    <PreviousSeal>0</PreviousSeal>
    <RouteSeal1>5</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
```

```

<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>782582</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID/>
<ATMSerialNumber/>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>fdave</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>sad</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2003-03-28T16:14:12Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2003-03-28T16:46:11Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>fbob</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2003-03-28T13:57:52Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2003-03-28T14:02:07Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch/>
<Address1/>
<Address2/>
<City/>
<State/>
<ZIP/>
<Country/>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus/>
<LockDispatchStatus/>
<TimeZoneID/>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress/>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</RESPONSE_DELETE_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran delete lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

itemElementNameField - Enumeration of itemField field contents:

Value	Enumerated Value	Meaning
0	LockName	itemField contains lock name.
1	SerialNumber	itemField contains lock serial number.

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/delete
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/delete
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "itemElementNameField" : 0 ,
  "itemField" : "VLK110" ,
  "lockModeField" : 1
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "" ,
    "closeSealLengthField" : "2" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,

```

```

"countryField" : "" ,
"customerIDField" : "" ,
"customerNumberField" : "123456" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDualModeField" : true ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "0" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\\Date(1048869771000)\\/" ,
"lockActivationStatusField" : "" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK110" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : null ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : null ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "0" ,
"previousUser1ID1Field" : "" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 0 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "0" ,
"routeSeal2Field" : "0" ,

```

```

        "routeSeal3Field" : "0" ,
        "sealField" : "134" ,
        "serialNumberField" : "532110" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\/Date(1048859796000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock VLK110 successfully deleted."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_DELETE_LOCKField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "itemElementNameField" : 0 ,
        "itemField" : "VLK110" ,
        "lockModeField" : 1
    }
}

```


3.2.14 Web Service Lock Transactions - Delete Shelved Lock By Serial Number

CenTran Programming Reference Manual

This transaction deletes a shelved lock from the Cencon database by lock serial number and mode. This is supported for shelved FLM, Route, or Bank mode locks. If the lock to be deleted is not in a shelved state, then the lock must first be shelved either using an SA key or by remote communications. This transaction deletes only one mode of a lock from the Cencon database. A lock can have up to three entries in the database, one for FLM, Route and Bank modes.

Transaction information required:

- Lock Serial Number
- Lock Mode (F/R/B)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Deleted lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/delete
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/delete
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_DELETE_LOCK>
  <SerialNumber>532112</SerialNumber>
  <LockMode>F</LockMode>
  <DispatcherID/>
</TRANSACTION_DELETE_LOCK>
```

Example Output Transaction:

```
<RESPONSE_DELETE_LOCK>
  <TRANSACTION_DELETE_LOCK>
    <SerialNumber>532112</SerialNumber>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock VLK112 successfully deleted.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>VLK112</LockName>
    <RecordType>D</RecordType>
    <StartDate>2003-03-28T13:57:14Z</StartDate>
    <LastUsedDate>2013-01-28T20:52:32.117Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>532112</SerialNumber>
    <AuditCount>3</AuditCount>
    <IfLockOpen>false</IfLockOpen>
    <IfForcedClosed>false</IfForcedClosed>
    <IfRoute1Issued>false</IfRoute1Issued>
    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
    <Seal>120</Seal>
    <PreviousSeal>0</PreviousSeal>
    <RouteSeal1>120</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
```

```

<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>422666</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID/>
<ATMSerialNumber/>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>fdave</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>sad</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2003-03-28T16:14:26Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2003-03-28T16:46:38Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>fbob</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2003-03-28T13:57:53Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2003-03-28T14:02:21Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch/>
<Address1/>
<Address2/>
<City/>
<State/>
<ZIP/>
<Country/>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus/>
<LockDispatchStatus/>
<TimeZoneID/>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress/>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</RESPONSE_DELETE_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran delete lock transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

itemElementNameField - Enumeration of itemField field contents:

Value	Enumerated Value	Meaning
0	LockName	itemField contains lock name.
1	SerialNumber	itemField contains lock serial number.

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/delete
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/delete
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "itemElementNameField" : 1 ,
  "itemField" : "532110" ,
  "lockModeField" : 0
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "3" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "" ,
    "closeSealLengthField" : "2" ,
    "closeTime1Field" : "\/Date(1048869945000)\/" ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
  }
}
```

```

"countryField" : "" ,
"customerIDField" : "" ,
"customerNumberField" : "123456" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "sad" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "702308" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\Date(1048870171000)\" ,
"lockActivationStatusField" : "" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "VLK110" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1048868037000)\" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1048860110000)\" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1048859871000)\" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "0" ,
"previousUser1ID1Field" : "fbob" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 0 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "136" ,
"routeSeal2Field" : "0" ,

```

```

        "routeSeal3Field" : "0" ,
        "sealField" : "136" ,
        "serialNumberField" : "532110" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\Date(1048859776000)\" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "fdave" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock VLK110 successfully deleted."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_DELETE_LOCKField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "itemElementNameField" : 1 ,
        "itemField" : "532110" ,
        "lockModeField" : 0
    }
}

```

3.2.15 Web Service Lock Transactions - Lock Table Query

CenTran Programming Reference Manual

This transaction queries the lock table for a set of lock records. The query record in the input web service transaction body contains a set of lock fields to create a query from. The query record also contains a flag indicating if to use like search or exact search. The query transaction attempts to work in a similar fashion as Cencon's 'Find Locks' form which searches for locks to be displayed in a lock report.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the lock records in the lock table are retrieved.

- Lock Name
- Dispatched User ID (searches for this User ID in both the FLM1ID and FLM2ID lock record fields)
- Group Name
- Serial Number Minimum and Serial Number Maximum (these values specify a range)
- Lock mode
- If Dual Mode
- Customer Number
- Minimum Audit Count
- Start Date Range (Start Date Start and Start Date End dates)
- Last Used Date range (Last Used Date Start and Last Used Date End dates)
- Lock Status List (Locks in one or more of these modes – Active/Shelved/Install/Pending Shelve/Being Replaced)
- If Lock Open
- If Route Open
- If Unassigned Open Call
- If Forced Closed
- If Search Exact (If the value for this field is false, then like search is used).
- Customer ID
- ATM Serial Number
- Region
- Service Branch
- Description
- User Defined
- Address 1
- Address 2
- City
- State
- ZIP
- Country
- Bank Branch Name
- Lock Type - Gen 1 or Gen 2

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Note

If the Dispatcher belongs to a local region and region control is enabled, only those locks belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region even if a different value has already been provided in the query record.

If the Boolean fields are not present in the query record, they are assumed to have a value of false. All the Boolean value fields start with the characters 'If'. This applies to all the query transactions.

For the Start Date Range and End Date Range search, both the lower and upper bounds for the search have to be specified i.e. both Start Date Start and Start Date End have to be specified. If only Start Date Start is specified in the query record, that search field will not have any effect on the result.

Similarly to the Date Range search, for the Serial Number range search, both the lower (Serial Number Minimum) and upper bounds (Serial Number Maximum) for the search have to be specified.

If string fields such as Address1, Description are left blank, those fields are left out of the search query i.e. CenTran does not search for lock records in which Address or Description field is empty. This applies to all the query transactions.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the lock records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open lock table.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/query
```

Example Input Transaction (HTTP Post):

Example Input Transaction (HTTP Body):

```

<TRANSACTION_LOCK_QUERY>
  <LockQueryRecord>
    <LockName>VLK</LockName>
    <UserID></UserID>
    <GroupName></GroupName>
    <SerialNumberMinimum>532000</SerialNumberMinimum>
    <SerialNumberMaximum>533000</SerialNumberMaximum>
    <LockMode>B</LockMode>
    <IfDualMode>0</IfDualMode>
    <CustomerNumber>0</CustomerNumber>
    <MinimumCountAudits>10</MinimumCountAudits>
    <StartDateStart>2002-04-01T00:00:00</StartDateStart>
    <StartDateEnd>2003-04-30T00:00:00</StartDateEnd>
    <LastUsedDateStart>2004-04-01T00:00:00</LastUsedDateStart>
    <LastUsedDateEnd>2005-04-30T00:00:00</LastUsedDateEnd>
    <ListLockStatus>
      <LockStatus>A</LockStatus>
    </ListLockStatus>
    <IfLockOpen>0</IfLockOpen>
    <IfRouteOpen>false</IfRouteOpen>
    <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
    <IfForcedClosed>false</IfForcedClosed>
    <CustomerID></CustomerID>
    <ATMSerialNumber></ATMSerialNumber>
    <Region>TestRegionA</Region>
    <ServiceBranch>service</ServiceBranch>
    <Description>Bank Branch</Description>
    <UserDefined></UserDefined>
    <Address1></Address1>
    <Address2></Address2>
    <City></City>
    <State></State>
    <ZIP></ZIP>
    <Country></Country>
    <BankBranchName>FirstBankBranch</BankBranchName>
    <IfSearchExact>0</IfSearchExact>
  </LockQueryRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_QUERY>

```

Example Output Transaction:

Note: The output transaction has the lock name and mode encoded in an input transaction (TRANSACTION_LOCK_LOG_QUERY), a result record (indicating success) and all the lock records matching the search query.

```

<RESPONSE_LOCK_QUERY>
  <TRANSACTION_LOCK_QUERY>
    <LockQueryRecord>
      <LockName>VLK</LockName>
      <UserID></UserID>
      <GroupName></GroupName>
      <SerialNumberMinimum>532000</SerialNumberMinimum>
      <SerialNumberMaximum>533000</SerialNumberMaximum>
      <LockMode>B</LockMode>
      <IfDualMode>0</IfDualMode>
      <CustomerNumber>0</CustomerNumber>
      <MinimumCountAudits>10</MinimumCountAudits>
      <StartDateStart>2002-04-01T00:00:00</StartDateStart>
      <StartDateEnd>2003-04-30T00:00:00</StartDateEnd>
      <LastUsedDateStart>2004-04-01T00:00:00</LastUsedDateStart>
      <LastUsedDateEnd>2005-04-30T00:00:00</LastUsedDateEnd>
      <ListLockStatus>
        <LockStatus>A</LockStatus>
      </ListLockStatus>
      <IfLockOpen>0</IfLockOpen>
      <IfRouteOpen>false</IfRouteOpen>
      <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
      <IfForcedClosed>false</IfForcedClosed>
      <CustomerID></CustomerID>
      <ATMSerialNumber></ATMSerialNumber>
      <Region>TestRegionA</Region>
      <ServiceBranch>service</ServiceBranch>
      <Description>Bank Branch</Description>
      <UserDefined></UserDefined>
      <Address1></Address1>
      <Address2></Address2>
      <City></City>
      <State></State>
      <ZIP></ZIP>
      <Country></Country>
      <BankBranchName>FirstBankBranch</BankBranchName>
      <IfSearchExact>0</IfSearchExact>
    </LockQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock record/s found satisfying the search condition.
  </Description>
</ResultRecord>

```



```

<LockRecord>
  <LockName>VLK101</LockName>
  <RecordType>A</RecordType>
  <StartDate>2003-03-27T20:44:16</StartDate>
  <LastUsedDate>2004-12-22T14:36:48</LastUsedDate>
  <CustomerNumber>123456</CustomerNumber>
  <LockMode>B</LockMode>
  <IfDualMode>0</IfDualMode>
  <IfLockOpen>0</IfLockOpen>
  <IfForcedClosed>0</IfForcedClosed>
  <IfRoute1Issued>0</IfRoute1Issued>
  <IfRoute2Issued>0</IfRoute2Issued>
  <IfRoute3Issued>0</IfRoute3Issued>
  <IfNoAlarm>0</IfNoAlarm>
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <IfActivationCall>0</IfActivationCall>
  <SerialNumber>532101</SerialNumber>
  <CloseSeal>0</CloseSeal>
  <PreviousSeal>0</PreviousSeal>
  <RouteSeal1>0</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>0</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <AuditCount>11</AuditCount>
  <GroupName />
  <OriginalSerialNumber>0</OriginalSerialNumber>
  <Description1>Bank Branch Lock 1</Description1>
  <Description2 />
  <Description3 />
  <Description4 />
  <CustomerID />
  <ATMSerialNumber />
  <UserDefined1 />
  <UserDefined2 />
  <UserDefined3 />
  <UserDefined4 />
  <Region>TestRegionA</Region>
  <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
  <IfLastRoute1Issued>0</IfLastRoute1Issued>
  <IfLastRoute2Issued>1</IfLastRoute2Issued>
  <IfLastRoute3Issued>0</IfLastRoute3Issued>
  <User1ID1 />
  <User1ID2 />
  <User1ID3 />
  <User2ID1 />
  <User2ID2 />
  <User2ID3 />
  <RouteName1 />
  <RouteName2 />
  <RouteName3 />
  <DispatcherID1 />
  <DispatcherID2 />
  <DispatcherID3 />
  <OpenTime1 xsi:nil="true" />
  <OpenTime2 xsi:nil="true" />
  <OpenTime3 xsi:nil="true" />
  <CloseTime1 xsi:nil="true" />
  <CloseTime2 xsi:nil="true" />
  <CloseTime3 xsi:nil="true" />
  <IfPreviousRoute1Issued>0</IfPreviousRoute1Issued>
  <IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
  <IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
  <PreviousUser1ID1 />
  <PreviousUser1ID2 />
  <PreviousUser1ID3 />
  <PreviousUser2ID1 />
  <PreviousUser2ID2 />
  <PreviousUser2ID3 />
  <PreviousRouteName1 />
  <PreviousRouteName2 />
  <PreviousRouteName3 />
  <PreviousOpenTime1 xsi:nil="true" />
  <PreviousOpenTime2 xsi:nil="true" />
  <PreviousOpenTime3 xsi:nil="true" />
  <PreviousCloseTime1 xsi:nil="true" />
  <PreviousCloseTime2 xsi:nil="true" />
  <PreviousCloseTime3 xsi:nil="true" />
  <ServiceBranch>the new service branch</ServiceBranch>
  <Address1 />

```

```

    <Address2 />
    <City />
    <State />
    <ZIP />
    <Country />
    <KeyCloseSeal>0</KeyCloseSeal>
    <LockHardwareModel />
    <BankBranchName>FirstBankBranch</BankBranchName>
    <BankOpenDelay>0</BankOpenDelay>
    <BankOpenWindow>1</BankOpenWindow>
    <LockActivationStatus />
    <LockDispatchStatus />
  </LockRecord>
</RESPONSE_LOCK_QUERY>

```

Example 2 - Success but no records returned

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/query
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/query
```

Example Input Transaction (HTTP Body):

```

<TRANSACTION_LOCK_QUERY>
  <LockQueryRecord>
    <SerialNumberMinimum>555000</SerialNumberMinimum>
    <SerialNumberMaximum>500000</SerialNumberMaximum>
    <MinimumCountAudits>1000</MinimumCountAudits>
    <ListLockStatus>
      <LockStatus>P</LockStatus>
      <LockStatus>I</LockStatus>
      <LockStatus>R</LockStatus>
    </ListLockStatus>
    <IfSearchExact>1</IfSearchExact>
  </LockQueryRecord>
  <DispatcherID/>
</TRANSACTION_LOCK_QUERY>

```

Example Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_ LOCK_QUERY), a result record indicating success (query was processed successfully) with a description field saying that no lock records were found to match the given search condition.

```

<RESPONSE_LOCK_QUERY>
  <TRANSACTION_LOCK_QUERY>
    <LockQueryRecord>
      <SerialNumberMinimum>555000</SerialNumberMinimum>
      <SerialNumberMaximum>500000</SerialNumberMaximum>
      <MinimumCountAudits>1000</MinimumCountAudits>
      <ListLockStatus>
        <LockStatus>P</LockStatus>
        <LockStatus>I</LockStatus>
        <LockStatus>R</LockStatus>
      </ListLockStatus>
      <IfSearchExact>1</IfSearchExact>
    </LockQueryRecord>
    <DispatcherID/>
  </TRANSACTION_LOCK_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>No lock record found satisfying the search condition.</Description>
  </ResultRecord>
</RESPONSE_LOCK_QUERY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran lock query transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning

0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example queries the lock table for any locks assigned an ATM serial number containing '1167'. All three modes of lock VLK1000109 are returned.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/query
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "lockQueryRecordField" :
  {
    "aTMSerialNumberField" : "1167" ,
    "address1Field" : null ,
    "address2Field" : null ,
    "bankBranchNameField" : null ,
    "cityField" : null ,
    "countryField" : null ,
    "customerIDField" : null ,
    "customerNumberField" : null ,
    "descriptionField" : null ,
    "duressDateEndField" : null ,
    "duressDateEndFieldSpecified" : false ,
    "duressDateStartField" : null ,
    "duressDateStartFieldSpecified" : false ,
    "groupNameField" : null ,
    "ifDualModeField" : false ,
    "ifDualModeFieldSpecified" : false ,
    "ifForcedClosedField" : false ,
    "ifForcedClosedFieldSpecified" : false ,
    "ifLegacyImportField" : false ,
    "ifLegacyImportFieldSpecified" : false ,
    "ifLockOpenField" : false ,
    "ifLockOpenFieldSpecified" : false ,
    "ifRouteOpenField" : false ,
    "ifRouteOpenFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "ifUnassignedOpenCallField" : false ,
    "ifUnassignedOpenCallFieldSpecified" : false ,
    "lastUsedDateEndField" : null ,
    "lastUsedDateEndFieldSpecified" : false ,
    "lastUsedDateStartField" : null ,
    "lastUsedDateStartFieldSpecified" : false ,
    "listLockStatusField" : null ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : null ,
    "lockTypeField" : null ,
    "lowBatteryDateEndField" : null ,
    "lowBatteryDateEndFieldSpecified" : false ,
    "lowBatteryDateStartField" : null ,
    "lowBatteryDateStartFieldSpecified" : false ,
    "minimumCountAuditsField" : null ,
    "regionField" : null ,
    "serialNumberMaximumField" : null ,
    "serialNumberMinimumField" : null ,
  }
}
```

```

        "serviceBranchField" : null ,
        "startDateEndField" : null ,
        "startDateEndFieldSpecified" : false ,
        "startDateStartField" : null ,
        "startDateStartFieldSpecified" : false ,
        "stateField" : null ,
        "timeZoneIDField" : null ,
        "userDefinedField" : null ,
        "userIDField" : null ,
        "zipField" : null
    }
}

```

Example Output Transaction - JSON:

```

{
    "lockRecordField" :
    [
        {
            "aTMSerialNumberField" : "Kaba Mas ATM 1167" ,
            "address1Field" : "" ,
            "address2Field" : "" ,
            "auditCountField" : "1" ,
            "bankBranchNameField" : "North Bank Branch" ,
            "bankModeUserNameArrayField" :
            [
                "BU01" ,
                "BU02" ,
                "BU03" ,
                "BU04" ,
                "BU05" ,
                "BU06" ,
                "BU07" ,
                "BadBank08" ,
                "33" ,
                "Lee - Testing000001" ,
                "Lee - Testing000002" ,
                "Lee - Testing000003" ,
                "Lee - Testing000004" ,
                "Lee - Testing000005" ,
                "Lee - Testing000006" ,
                "Lee - Testing000007" ,
                "Lee - Testing000008"
            ] ,
            "bankOpenDelayField" : "0" ,
            "bankOpenWindowField" : "0" ,
            "cityField" : "Lexington" ,
            "closeSealLengthField" : "0" ,
            "closeTime1Field" : null ,
            "closeTime2Field" : null ,
            "closeTime3Field" : null ,
            "countryField" : "USA" ,
            "customerIDField" : "North Bank" ,
            "customerNumberField" : "85951" ,
            "description1Field" : "" ,
            "description2Field" : "" ,
            "description3Field" : "" ,
            "description4Field" : "" ,
            "dispatcherID1Field" : "" ,
            "dispatcherID2Field" : "" ,
            "dispatcherID3Field" : "" ,
            "displayIssuedComboUser1Seq1Field" : "" ,
            "displayIssuedComboUser1Seq2Field" : "" ,
            "displayIssuedComboUser1Seq3Field" : "" ,
            "displayIssuedComboUser2Seq1Field" : "" ,
            "displayIssuedComboUser2Seq2Field" : "" ,
            "displayIssuedComboUser2Seq3Field" : "" ,
            "duressDateField" : null ,
            "groupNameField" : "AA001" ,
            "ifActivationCallField" : true ,
            "ifDualModeField" : false ,
            "ifForcedClosedField" : false ,
            "ifLastRoute1IssuedField" : false ,
            "ifLastRoute2IssuedField" : false ,
            "ifLastRoute3IssuedField" : false ,
            "ifLegacyImportField" : false ,
            "ifLockOpenField" : false ,
            "ifNoAlarmField" : false ,
            "ifPreviousRoute1IssuedField" : false ,
            "ifPreviousRoute2IssuedField" : false ,
            "ifPreviousRoute3IssuedField" : false ,
            "ifRoute1IssuedField" : false ,
            "ifRoute2IssuedField" : false ,
            "ifRoute3IssuedField" : false ,
            "ifSecondLineMaintenanceCallField" : false ,
            "ifUnassignedOpenCallField" : false ,
            "issuedComboUser1Seq1Field" : "0" ,
            "issuedComboUser1Seq2Field" : "0" ,
            "issuedComboUser1Seq3Field" : "0" ,
            "issuedComboUser2Seq1Field" : "0" ,

```

```

    "issuedComboUser2Seq2Field" : "0" ,
    "issuedComboUser2Seq3Field" : "0" ,
    "keyCloseSealField" : "0" ,
    "lastUsedDateField" : "\/Date(1363122152657)\/" ,
    "lockActivationStatusField" : "gen2" ,
    "lockDispatchStatusField" : "" ,
    "lockHardwareModelField" : "" ,
    "lockModeField" : 2 ,
    "lockNameField" : "VLK1000109" ,
    "lowBatteryDateField" : null ,
    "networkAddressField" : "" ,
    "networkPortField" : "0" ,
    "openTime1Field" : null ,
    "openTime2Field" : null ,
    "openTime3Field" : null ,
    "openTries1Field" : "0" ,
    "openTries2Field" : "0" ,
    "openTries3Field" : "0" ,
    "originalSerialNumberField" : "000000" ,
    "previousCloseTime1Field" : null ,
    "previousCloseTime2Field" : null ,
    "previousCloseTime3Field" : null ,
    "previousComboUser1Seq1Field" : "0" ,
    "previousComboUser1Seq2Field" : "0" ,
    "previousComboUser1Seq3Field" : "0" ,
    "previousComboUser2Seq1Field" : "0" ,
    "previousComboUser2Seq2Field" : "0" ,
    "previousComboUser2Seq3Field" : "0" ,
    "previousOpenTime1Field" : null ,
    "previousOpenTime2Field" : null ,
    "previousOpenTime3Field" : null ,
    "previousRouteName1Field" : "" ,
    "previousRouteName2Field" : "" ,
    "previousRouteName3Field" : "" ,
    "previousRouteSeal1Field" : "0" ,
    "previousRouteSeal2Field" : "0" ,
    "previousRouteSeal3Field" : "0" ,
    "previousSealField" : "0" ,
    "previousUser1ID1Field" : "" ,
    "previousUser1ID2Field" : "" ,
    "previousUser1ID3Field" : "" ,
    "previousUser2ID1Field" : "" ,
    "previousUser2ID2Field" : "" ,
    "previousUser2ID3Field" : "" ,
    "recordTypeField" : 1 ,
    "regionField" : "KENTUCKY" ,
    "routeName1Field" : "" ,
    "routeName2Field" : "" ,
    "routeName3Field" : "" ,
    "routeSeal1Field" : "0" ,
    "routeSeal2Field" : "0" ,
    "routeSeal3Field" : "0" ,
    "sealField" : "0" ,
    "serialNumberField" : "001000109" ,
    "serviceBranchField" : "North Bank Service" ,
    "startDateField" : "\/Date(1269006317707)\/" ,
    "stateField" : "KY" ,
    "timeZoneIDField" : "" ,
    "transferReturnCodeField" : "0" ,
    "user1ID1Field" : "" ,
    "user1ID2Field" : "" ,
    "user1ID3Field" : "" ,
    "user2ID1Field" : "" ,
    "user2ID2Field" : "" ,
    "user2ID3Field" : "" ,
    "userDefined1Field" : "" ,
    "userDefined2Field" : "" ,
    "userDefined3Field" : "" ,
    "userDefined4Field" : "" ,
    "zipField" : "40508"
  } ,
  {
    "atMSerialNumberField" : "Kaba Mas ATM 1167" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "923043" ,
    "description1Field" : "" ,
    "description2Field" : ""
  }

```

```

"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "AA001" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "0" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "29769" ,
"lastUsedDateField" : null ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "VLK1000109" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : null ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : null ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "0" ,
"previousUser1ID1Field" : "" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 3 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "0" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "29769" ,
"serialNumberField" : "001000109" ,
"serviceBranchField" : "North Bank Service" ,
"startDateField" : "\/Date(1269006317487)\/" ,

```

```

"stateField" : "KY" ,
"timeZoneIDField" : "" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zIPField" : "40508"
} ,
{
"atMSerialNumberField" : "Kaba Mas ATM 1167" ,
"address1Field" : "" ,
"address2Field" : "" ,
"auditCountField" : "8" ,
"bankBranchNameField" : "" ,
"bankModeUserNameArrayField" : null ,
"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "Lexington" ,
"closeSealLengthField" : "4" ,
"closeTime1Field" : "\/Date(1400511518350)\/" ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "USA" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "645576" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "MHG\\LSTALL" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "AA001" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "614412" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "25265" ,
"lastUsedDateField" : "\/Date(1400511518350)\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK1000109" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1400511452007)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\/Date(1400184436840)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,

```



```

        "previousComboUser1Seq1Field" : "769387" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\Date(1400184390323)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "16911" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "16911" ,
        "previousUser1ID1Field" : "Route SHA Key 2" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "1579" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "1579" ,
        "serialNumberField" : "001000109" ,
        "serviceBranchField" : "North Bank Service" ,
        "startDateField" : "\Date(1269006317597)\/" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "Route SHA Key 2" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zipField" : "40508"
    }
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Number of lock records matching the given query: 3."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"transactionLockQueryField" :
{
    "dispatcherIDField" : "CentranSS" ,
    "lockQueryRecordField" :
    {
        "atmSerialNumberField" : "1167" ,
        "address1Field" : null ,
        "address2Field" : null ,
        "bankBranchNameField" : null ,
        "cityField" : null ,
        "countryField" : null ,
        "customerIDField" : null ,
        "customerNumberField" : null ,
        "descriptionField" : null ,
        "duressDateEndField" : null ,
        "duressDateEndFieldSpecified" : false ,
        "duressDateStartField" : null ,
        "duressDateStartFieldSpecified" : false ,
        "groupNameField" : null ,
        "ifDualModeField" : false ,
        "ifDualModeFieldSpecified" : false ,
        "ifForcedClosedField" : false ,
        "ifForcedClosedFieldSpecified" : false ,
        "ifLegacyImportField" : false ,
        "ifLegacyImportFieldSpecified" : false ,
        "ifLockOpenField" : false ,
        "ifLockOpenFieldSpecified" : false ,
        "ifRouteOpenField" : false ,
        "ifRouteOpenFieldSpecified" : false ,
        "ifSearchExactField" : false ,
    }
}

```

```

        "ifSearchExactFieldSpecified" : false ,
        "ifUnassignedOpenCallField" : false ,
        "ifUnassignedOpenCallFieldSpecified" : false ,
        "lastUsedDateEndField" : null ,
        "lastUsedDateEndFieldSpecified" : false ,
        "lastUsedDateStartField" : null ,
        "lastUsedDateStartFieldSpecified" : false ,
        "listLockStatusField" : null ,
        "lockModeField" : 0 ,
        "lockModeFieldSpecified" : false ,
        "lockNameField" : null ,
        "lockTypeField" : null ,
        "lowBatteryDateEndField" : null ,
        "lowBatteryDateEndFieldSpecified" : false ,
        "lowBatteryDateStartField" : null ,
        "lowBatteryDateStartFieldSpecified" : false ,
        "minimumCountAuditsField" : null ,
        "regionField" : null ,
        "serialNumberMaximumField" : null ,
        "serialNumberMinimumField" : null ,
        "serviceBranchField" : null ,
        "startDateEndField" : null ,
        "startDateEndFieldSpecified" : false ,
        "startDateStartField" : null ,
        "startDateStartFieldSpecified" : false ,
        "stateField" : null ,
        "timeZoneIDField" : null ,
        "userDefinedField" : null ,
        "userIDField" : null ,
        "zIPField" : null
    }
}
}

```

3.2.16 Web Service Lock Transactions - Lock Table Query Count

CenTran Programming Reference Manual

This transaction returns the number of records in the lock table matching the given query condition. It operates in the same manner as the Lock Table Query transaction.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/query-count
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/query-count
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_LOCK_QUERY_COUNT>
  <LockQueryRecord>
    <SerialNumberMinimum>555000</SerialNumberMinimum>
    <SerialNumberMaximum>500000</SerialNumberMaximum>
    <MinimumCountAudits>0</MinimumCountAudits>
    <StartDateStart>2003-04-30T00:00:00</StartDateStart>
    <StartDateEnd>2002-04-01T00:00:00</StartDateEnd>
    <LastUsedDateStart>2005-04-30T00:00:00</LastUsedDateStart>
    <LastUsedDateEnd>2004-04-01T00:00:00</LastUsedDateEnd>
    <ListLockStatus>
      <LockStatus>D</LockStatus>
    </ListLockStatus>
    <IfSearchExact>1</IfSearchExact>
  </LockQueryRecord>
  <DispatcherID/>
</TRANSACTION_LOCK_QUERY_COUNT>
```

Example Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_QUERY_COUNT), a result record (indicating success) and a field (QueryCount) having the exact query count.

```
<RESPONSE_LOCK_QUERY_COUNT>
  <TRANSACTION_LOCK_QUERY_COUNT>
    <LockQueryRecord>
      <SerialNumberMinimum>555000</SerialNumberMinimum>
      <SerialNumberMaximum>500000</SerialNumberMaximum>
      <MinimumCountAudits>0</MinimumCountAudits>
      <StartDateStart>2003-04-30T00:00:00</StartDateStart>
      <StartDateEnd>2002-04-01T00:00:00</StartDateEnd>
      <LastUsedDateStart>2005-04-30T00:00:00</LastUsedDateStart>
      <LastUsedDateEnd>2004-04-01T00:00:00</LastUsedDateEnd>
      <ListLockStatus>
        <LockStatus>D</LockStatus>
      </ListLockStatus>
      <IfSearchExact>1</IfSearchExact>
    </LockQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of lock records matching the given query: 2.</Description>
  </ResultRecord>
  <QueryCount>2</QueryCount>
</RESPONSE_LOCK_QUERY_COUNT>
```

Example 2 - Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/lock/query-count
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/lock/query-count
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_LOCK_QUERY_COUNT>
  <LockQueryRecord>
    <SerialNumberMinimum>555000</SerialNumberMinimum>
    <SerialNumberMaximum>500000</SerialNumberMaximum>
    <MinimumCountAudits>0</MinimumCountAudits>
    <StartDateStart>2003-04-30T00:00:00</StartDateStart>
```

```

<StartDateEnd>2002-04-01T00:00:00</StartDateEnd>
<LastUsedDateStart>2005-04-30T00:00:00</LastUsedDateStart>
<LastUsedDateEnd>2004-04-01T00:00:00</LastUsedDateEnd>
<ListLockStatus>
  <LockStatus>D</LockStatus>
</ListLockStatus>
<IfSearchExact>1</IfSearchExact>
</LockQueryRecord>
<DispatcherID/>
</TRANSACTION_LOCK_QUERY_COUNT>

```

Example Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_QUERY_COUNT), a result record (indicating failure) with an error code (RC_ERR_NOT_AUTHORIZED_TO_DO_OPERATION) and description. In this case, the dispatcher authenticated with the web service is not authorized to query a lock table.

```

<RESPONSE_LOCK_QUERY_COUNT>
  <TRANSACTION_LOCK_QUERY_COUNT xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <LockQueryRecord>
      <SerialNumberMinimum>555000</SerialNumberMinimum>
      <SerialNumberMaximum>500000</SerialNumberMaximum>
      <MinimumCountAudits>0</MinimumCountAudits>
      <StartDateStart>2003-04-30T00:00:00</StartDateStart>
      <StartDateEnd>2002-04-01T00:00:00</StartDateEnd>
      <LastUsedDateStart>2005-04-30T00:00:00</LastUsedDateStart>
      <LastUsedDateEnd>2004-04-01T00:00:00</LastUsedDateEnd>
      <ListLockStatus>
        <LockStatus>D</LockStatus>
      </ListLockStatus>
      <IfSearchExact>1</IfSearchExact>
    </LockQueryRecord>
    <DispatcherID>Test Auth user</DispatcherID>
  </TRANSACTION_LOCK_QUERY_COUNT>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_NOT_AUTHORIZED_TO_DO_OPERATION</ErrorCode>
    <Description>Dispatcher not authorized to perform this operation: Lock Table Query.
  </Description>
  </ResultRecord>
</RESPONSE_LOCK_QUERY_COUNT>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran lock query transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example queries the lock table for any locks assigned an ATM serial number containing '1167'. All three modes of lock VLK1000109 match having that ATM serial number, so the result is three.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/query
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "dispatcherIDField" : null ,
  "lockQueryRecordField" :
  {
    "aTMSerialNumberField" : "1167" ,
    "address1Field" : null ,
    "address2Field" : null ,
    "bankBranchNameField" : null ,
    "cityField" : null ,
    "countryField" : null ,
    "customerIDField" : null ,
    "customerNumberField" : null ,
    "descriptionField" : null ,
    "duressDateEndField" : null ,
    "duressDateEndFieldSpecified" : false ,
    "duressDateStartField" : null ,
    "duressDateStartFieldSpecified" : false ,
    "groupNameField" : null ,
    "ifDualModeField" : false ,
    "ifDualModeFieldSpecified" : false ,
    "ifForcedClosedField" : false ,
    "ifForcedClosedFieldSpecified" : false ,
    "ifLegacyImportField" : false ,
    "ifLegacyImportFieldSpecified" : false ,
    "ifLockOpenField" : false ,
    "ifLockOpenFieldSpecified" : false ,
    "ifRouteOpenField" : false ,
    "ifRouteOpenFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "ifUnassignedOpenCallField" : false ,
    "ifUnassignedOpenCallFieldSpecified" : false ,
    "lastUsedDateEndField" : null ,
    "lastUsedDateEndFieldSpecified" : false ,
    "lastUsedDateStartField" : null ,
    "lastUsedDateStartFieldSpecified" : false ,
    "listLockStatusField" : null ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : null ,
    "lockTypeField" : null ,
    "lowBatteryDateEndField" : null ,
    "lowBatteryDateEndFieldSpecified" : false ,
    "lowBatteryDateStartField" : null ,
    "lowBatteryDateStartFieldSpecified" : false ,
    "minimumCountAuditsField" : null ,
    "regionField" : null ,
    "serialNumberMaximumField" : null ,
    "serialNumberMinimumField" : null ,
    "serviceBranchField" : null ,
    "startDateEndField" : null ,
    "startDateEndFieldSpecified" : false ,
    "startDateStartField" : null ,
    "startDateStartFieldSpecified" : false ,
    "stateField" : null ,
    "timeZoneIDField" : null ,
    "userDefinedField" : null ,
    "userIDField" : null ,
    "zipField" : null
  }
}

```

Example Output Transaction - JSON:

```

{
  "queryCountField" : "3" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of lock records matching the given query: 3."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_LOCK_QUERY_COUNTField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "lockQueryRecordField" :
    {
      "aTMSerialNumberField" : "1167" ,
      "address1Field" : null ,
      "address2Field" : null ,
      "bankBranchNameField" : null ,
      "cityField" : null ,
      "countryField" : null ,
      "customerIDField" : null ,
      "customerNumberField" : null ,
      "descriptionField" : null ,

```

```

    "duressDateEndField" : null ,
    "duressDateEndFieldSpecified" : false ,
    "duressDateStartField" : null ,
    "duressDateStartFieldSpecified" : false ,
    "groupNameField" : null ,
    "ifDualModeField" : false ,
    "ifDualModeFieldSpecified" : false ,
    "ifForcedClosedField" : false ,
    "ifForcedClosedFieldSpecified" : false ,
    "ifLegacyImportField" : false ,
    "ifLegacyImportFieldSpecified" : false ,
    "ifLockOpenField" : false ,
    "ifLockOpenFieldSpecified" : false ,
    "ifRouteOpenField" : false ,
    "ifRouteOpenFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "ifUnassignedOpenCallField" : false ,
    "ifUnassignedOpenCallFieldSpecified" : false ,
    "lastUsedDateEndField" : null ,
    "lastUsedDateEndFieldSpecified" : false ,
    "lastUsedDateStartField" : null ,
    "lastUsedDateStartFieldSpecified" : false ,
    "listLockStatusField" : null ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : null ,
    "lockTypeField" : null ,
    "lowBatteryDateEndField" : null ,
    "lowBatteryDateEndFieldSpecified" : false ,
    "lowBatteryDateStartField" : null ,
    "lowBatteryDateStartFieldSpecified" : false ,
    "minimumCountAuditsField" : null ,
    "regionField" : null ,
    "serialNumberMaximumField" : null ,
    "serialNumberMinimumField" : null ,
    "serviceBranchField" : null ,
    "startDateEndField" : null ,
    "startDateEndFieldSpecified" : false ,
    "startDateStartField" : null ,
    "startDateStartFieldSpecified" : false ,
    "stateField" : null ,
    "timeZoneIDField" : null ,
    "userDefinedField" : null ,
    "userIDField" : null ,
    "zIPField" : null
  }
}
}

```

3.2.17 Web Service Lock Transactions - Read Lock Log Data By Name

CenTran Programming Reference Manual

This transaction queries the lock log table for a set of lock log records of an open lock, using a web service HTTP GET transaction. The lock name and mode are specified as part of the web service HTTP GET transaction. There is no HTTP message body required by the request.

Transaction information required:

- Lock Name
- Lock Mode

Notes

If the dispatcher belongs to a local region and region control is enabled, only those locks belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region. If the lock is not assigned to the same region as the dispatcher, then the lock log data will be reported as not found.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the lock log records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open lock log table.

Example - Success

Input Transaction Format (HTTP GET):

```
https://{host}/CentranService/rest/log-names/{lockname}/{mode}/data
```

Example Input Transaction (HTTP GET):

```
https://kml-3242.domain.local/CentranService/rest/log-names/VLK016/R/data
```

Example Output Transaction (HTTP Body):

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_READ_LOCK), a result record (indicating success) and the lock log records matching the search query.

```
<RESPONSE LOCK LOG READ LOCK>
  <TRANSACTION_LOCK_LOG_READ_LOCK>
    <LockName>VLK016</LockName>
    <LockMode>R</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_READ_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of lock log records matching the given query: 2.</Description>
  </ResultRecord>
  <LockLogRecord>
    <LockName>VLK016</LockName>
    <DispatchID>CENTRAN</DispatchID>
    <User1ID>nr1</User1ID>
    <User2ID>nr2</User2ID>
    <RouteName>Test3</RouteName>
    <GroupName/>
    <SerialNumber>532016</SerialNumber>
    <AuditCount>0</AuditCount>
    <LockMode>R</LockMode>
    <IfDualMode>true</IfDualMode>
    <CustomerNumber>45477</CustomerNumber>
    <OpenDate>2011-05-13T18:06:13.007Z</OpenDate>
    <CloseDate/>
    <NumberCloseAttempts>0</NumberCloseAttempts>
    <LockSequence>1</LockSequence>
    <IfDispatchedOnRoute>true</IfDispatchedOnRoute>
    <IfForcedClosed>false</IfForcedClosed>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <DispatchOrder>0</DispatchOrder>
    <CustomerID/>
    <ATMSerialNumber/>
    <Region>KENTUCKY</Region>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
    <ServiceBranch>the new service branch</ServiceBranch>
  </LockLogRecord>
  <LockLogRecord>
    <LockName>VLK016</LockName>
    <DispatchID>CENTRAN</DispatchID>
    <User1ID>nr1</User1ID>
    <User2ID>nr2</User2ID>
    <RouteName>Test3</RouteName>
```



```

<GroupName/>
<SerialNumber>532016</SerialNumber>
<AuditCount>0</AuditCount>
<LockMode>R</LockMode>
<IfDualMode>true</IfDualMode>
<CustomerNumber>45477</CustomerNumber>
<OpenDate>2011-05-13T18:16:53.257Z</OpenDate>
<CloseDate/>
<NumberCloseAttempts>0</NumberCloseAttempts>
<LockSequence>2</LockSequence>
<IfDispatchedOnRoute>true</IfDispatchedOnRoute>
<IfForcedClosed>false</IfForcedClosed>
<IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
<IfActivationCall>false</IfActivationCall>
<DispatchOrder>0</DispatchOrder>
<CustomerID/>
<ATMSerialNumber/>
<Region>KENTUCKY</Region>
<IfUnassignedOpenCall>false</IfUnassignedOpenCall>
<ServiceBranch>the new service branch</ServiceBranch>
</LockLogRecord>
</RESPONSE_LOCK_LOG_READ_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read lock log by name transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

This example reads any lock log entries for a lock named VLK019, in route mode. The lock is dispatched on a route for route sequence 1, 2, and 3.

Input Transaction Format (HTTP Get) - JSON:

```
https://{host}/CentranServiceJSON/rest/log-names/{lockname}/{mode}/data
```

Example Input Transaction (HTTP Get) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/log-names/VLK019/R/data
```

Example Output Transaction - JSON:

```

{
  "lockLogRecordField" :
  [
    {
      "atMSerialNumberField" : "asdfasd" ,
      "auditCountField" : "13" ,
      "closeDateField" : null ,

```

```

        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "dispatchIDField" : "CentranSS" ,
        "dispatchOrderField" : "2" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "1" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\Date(1409175165347)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "TestRte6" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nrl" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "auditCountField" : "13" ,
        "closeDateField" : null ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "dispatchIDField" : "CentranSS" ,
        "dispatchOrderField" : "3" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "2" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\Date(1409175165993)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "TestRte6" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nrl" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "auditCountField" : "13" ,
        "closeDateField" : null ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "dispatchIDField" : "CentranSS" ,
        "dispatchOrderField" : "4" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "3" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\Date(1409175166673)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "TestRte6" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nrl" ,
        "user2IDField" : ""
    }
] ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Number of lock log records matching the given query: 3."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"TRANSACTION_LOCK_LOG_READ_LOCKField" :
{

```

```
    "dispatcherIDField" : "CentranSS" ,  
    "itemElementNameField" : 0 ,  
    "itemField" : "VLK019" ,  
    "lockModeField" : 1  
  }  
}
```

3.2.18 Web Service Lock Transactions - Read Lock Log Data By Serial Number

CenTran Programming Reference Manual

This transaction queries the lock log table for a set of lock log records of an open lock, using a web service HTTP GET transaction. The lock serial number and mode are specified as part of the web service HTTP GET transaction. There is no HTTP message body required by the request.

Transaction information required:

- Lock Serial Number
- Lock Mode

Notes

If the dispatcher belongs to a local region and region control is enabled, only those locks belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region. If the lock is not assigned to the same region as the dispatcher, then the lock log data will be reported as not found.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the lock log records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open lock log table.

Example - Success

Input Transaction Format (HTTP GET):

```
https://{host}/CentranService/rest/log-serialnumbers/{serialnumber}/{mode}/data
```

Example Input Transaction (HTTP GET):

```
https://kml-3242.domain.local/CentranService/rest/log-serialnumbers/532019/R/data
```

Example Output Transaction (HTTP Body):

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_READ_LOCK), a result record (indicating success) and the lock log records matching the search query.

```
<RESPONSE LOCK LOG READ LOCK>
  <TRANSACTION_LOCK_LOG_READ_LOCK>
    <SerialNumber>532019</SerialNumber>
    <LockMode>R</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_READ_LOCK>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC OK</ErrorCode>
    <Description>Number of lock log records matching the given query: 3.</Description>
  </ResultRecord>
  <LockLogRecord>
    <LockName>VLK019</LockName>
    <DispatchID>CENTRAN</DispatchID>
    <User1ID>nrl</User1ID>
    <User2ID/>
    <RouteName>TestRte6</RouteName>
    <GroupName/>
    <SerialNumber>532019</SerialNumber>
    <AuditCount>1</AuditCount>
    <LockMode>R</LockMode>
    <IfDualMode>>false</IfDualMode>
    <CustomerNumber>160080</CustomerNumber>
    <OpenDate>2011-07-14T13:57:30.917Z</OpenDate>
    <CloseDate/>
    <NumberCloseAttempts>0</NumberCloseAttempts>
    <LockSequence>1</LockSequence>
    <IfDispatchedOnRoute>true</IfDispatchedOnRoute>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <DispatchOrder>2</DispatchOrder>
    <CustomerID>asdf</CustomerID>
    <ATMSerialNumber>asdfasd</ATMSerialNumber>
    <Region>KENTUCKY</Region>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <ServiceBranch>the new service branch</ServiceBranch>
  </LockLogRecord>
  <LockLogRecord>
    <LockName>VLK019</LockName>
    <DispatchID>CENTRAN</DispatchID>
    <User1ID>nrl</User1ID>
    <User2ID/>
    <RouteName>TestRte6</RouteName>
```

```

<GroupName/>
<SerialNumber>532019</SerialNumber>
<AuditCount>1</AuditCount>
<LockMode>R</LockMode>
<IfDualMode>>false</IfDualMode>
<CustomerNumber>160080</CustomerNumber>
<OpenDate>2011-07-14T13:57:32.133Z</OpenDate>
<CloseDate/>
<NumberCloseAttempts>0</NumberCloseAttempts>
<LockSequence>2</LockSequence>
<IfDispatchedOnRoute>>true</IfDispatchedOnRoute>
<IfForcedClosed>>false</IfForcedClosed>
<IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
<IfActivationCall>>false</IfActivationCall>
<DispatchOrder>3</DispatchOrder>
<CustomerID>asdf</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<Region>KENTUCKY</Region>
<IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
<ServiceBranch>the new service branch</ServiceBranch>
</LockLogRecord>
<LockLogRecord>
  <LockName>VLK019</LockName>
  <DispatchID>CENTRAN</DispatchID>
  <User1ID>nrl</User1ID>
  <User2ID/>
  <RouteName>TestRte6</RouteName>
  <GroupName/>
  <SerialNumber>532019</SerialNumber>
  <AuditCount>1</AuditCount>
  <LockMode>R</LockMode>
  <IfDualMode>>false</IfDualMode>
  <CustomerNumber>160080</CustomerNumber>
  <OpenDate>2011-07-14T13:57:33.46Z</OpenDate>
  <CloseDate/>
  <NumberCloseAttempts>0</NumberCloseAttempts>
  <LockSequence>3</LockSequence>
  <IfDispatchedOnRoute>>true</IfDispatchedOnRoute>
  <IfForcedClosed>>false</IfForcedClosed>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <DispatchOrder>4</DispatchOrder>
  <CustomerID>asdf</CustomerID>
  <ATMSerialNumber>asdfasd</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
  <ServiceBranch>the new service branch</ServiceBranch>
</LockLogRecord>
</RESPONSE_LOCK_LOG_READ_LOCK>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read lock log by serial number transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

This example reads any lock log entries for lock serial number 532009, in route mode. The lock is dispatched on a route for route sequence 1 and 2.

Input Transaction Format (HTTP Get) - JSON:

```
https://{host}/CentranServiceJSON/rest/log-serialnumbers/{serialnumber}/{mode}/data
```

Example Input Transaction (HTTP Get) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/log-serialnumbers/532009/R/data
```

Example Output Transaction - JSON:

```
{
  "lockLogRecordField" :
  [
    {
      "aTMSerialNumberField" : "",
      "auditCountField" : "43",
      "closeDateField" : null,
      "customerIDField" : "some customerid",
      "customerNumberField" : "123456",
      "dispatchIDField" : "CentranSS",
      "dispatchOrderField" : "0",
      "groupNameField" : " ",
      "ifActivationCallField" : false,
      "ifDispatchedOnRouteField" : true,
      "ifDualModeField" : false,
      "ifForcedClosedField" : false,
      "ifSecondLineMaintenanceCallField" : false,
      "ifUnassignedOpenCallField" : false,
      "lockModeField" : 1,
      "lockNameField" : "VLK009",
      "lockSequenceField" : "1",
      "numberCloseAttemptsField" : "0",
      "openDateField" : "\/Date(1409175163953)\/",
      "regionField" : "KENTUCKY",
      "routeNameField" : "TestRte6",
      "serialNumberField" : "532009",
      "serviceBranchField" : "the new service branch",
      "user1IDField" : "nr1",
      "user2IDField" : ""
    },
    {
      "aTMSerialNumberField" : "",
      "auditCountField" : "43",
      "closeDateField" : null,
      "customerIDField" : "some customerid",
      "customerNumberField" : "123456",
      "dispatchIDField" : "CentranSS",
      "dispatchOrderField" : "1",
      "groupNameField" : " ",
      "ifActivationCallField" : false,
      "ifDispatchedOnRouteField" : true,
      "ifDualModeField" : false,
      "ifForcedClosedField" : false,
      "ifSecondLineMaintenanceCallField" : false,
      "ifUnassignedOpenCallField" : false,
      "lockModeField" : 1,
      "lockNameField" : "VLK009",
      "lockSequenceField" : "2",
      "numberCloseAttemptsField" : "0",
      "openDateField" : "\/Date(1409175164667)\/",
      "regionField" : "KENTUCKY",
      "routeNameField" : "TestRte6",
      "serialNumberField" : "532009",
      "serviceBranchField" : "the new service branch",
      "user1IDField" : "nr1",
      "user2IDField" : ""
    }
  ],
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of lock log records matching the given query: 2."
    ],
    "errorCodeField" : "RC_OK",
    "ifRetryValidField" : false,
    "resultField" : 0
  },
  "tTRANSACTION_LOCK_LOG_READ_LOCKField" :
  {
    "dispatcherIDField" : "CentranSS",
    "itemElementNameField" : 1,
  }
}
```

```
    "itemField" : "532009" ,  
    "lockModeField" : 1  
  }  
}
```


3.2.19 Web Service Lock Transactions - Lock Log Table Query

CenTran Programming Reference Manual

This transaction queries the lock log table for a set of lock log records of open locks. The input web service transaction body contains a query record which in turn contains a set of lock log fields to create a query from. The query record also contains a flag indicating if to use like search or exact search. The query transaction attempts to work in a similar fashion as Cencon's 'Find Open Locks' form to search for open locks to be displayed in a lock log report.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the lock log records in the lock log table are retrieved.

- Lock Name
- Dispatched User ID (searches for this User ID in both the FLM1ID and FLM2ID lock record fields)
- Route Name
- Group Name
- Lock Mode
- If Dual Mode
- Customer Number
- Open Date range (Open Date Start and Open Date End dates)
- Close Date range (Close Date Start and Close Date End dates)
- If Unassigned Open Call
- Customer ID
- ATM Serial Number
- Region
- Service Branch
- If Search Exact (If the value for this field is false, then like search is used)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Note

If the Dispatcher belongs to a local region and region control is enabled, only those locks belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region even if a different value has already been provided in the query record.

For the Open Date Range and Close Date Range search, the lower and upper bounds for the search can be specified independently i.e. Open Date Start may be specified in the query record while Open Date End may be left out and vice versa.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the lock log records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open lock log table.

Example - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/log/query
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/log/query
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_LOCK_LOG_QUERY>
  <LockLogQueryRecord>
    <LockName>Test</LockName>
    <UserID>rzjill</UserID>
    <GroupName></GroupName>
    <RouteName>TestRte5</RouteName>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <CustomerNumber>0</CustomerNumber>
    <OpenDateStart>2004-04-01T00:00:00</OpenDateStart>
    <OpenDateEnd>2005-04-30T00:00:00</OpenDateEnd>
    <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
    <CustomerID></CustomerID>
    <ATMSerialNumber></ATMSerialNumber>
    <Region>TestRegionD</Region>
    <ServiceBranch></ServiceBranch>
    <IfSearchExact>0</IfSearchExact>
  </LockLogQueryRecord>
  <DispatcherID/>
</TRANSACTION_LOCK_LOG_QUERY>
```

Example Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_QUERY), a result record (indicating success) and the lock log records matching the search query.

```
<RESPONSE_LOCK_LOG_QUERY>
  <TRANSACTION_LOCK_LOG_QUERY>
    <LockLogQueryRecord>
      <LockName>Test</LockName>
      <UserID>rzjill</UserID>
      <GroupName></GroupName>
      <RouteName>TestRte5</RouteName>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <CustomerNumber>0</CustomerNumber>
      <OpenDateStart>2004-04-01T00:00:00</OpenDateStart>
      <OpenDateEnd>2005-04-30T00:00:00</OpenDateEnd>
      <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
      <CustomerID></CustomerID>
      <ATMSerialNumber></ATMSerialNumber>
      <Region>TestRegionD</Region>
      <ServiceBranch></ServiceBranch>
      <IfSearchExact>0</IfSearchExact>
    </LockLogQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Log record/s found satisfying the search condition.
  </Description>
</ResultRecord>
<LockLogRecord>
  <LockName>TestQueryLock2</LockName>
  <DispatchID>CentranSS</DispatchID>
  <User1ID>rzjill</User1ID>
  <User2ID />
  <RouteName>TestRte5</RouteName>
  <GroupName>aabb</GroupName>
  <SerialNumber>828856</SerialNumber>
  <AuditCount>20</AuditCount>
  <LockMode>R</LockMode>
  <IfDualMode>0</IfDualMode>
  <CustomerNumber>123456</CustomerNumber>
  <OpenDate>2004-11-24T19:47:18.234Z</OpenDate>
  <CloseDate xsi:nil="true" />
  <NumberCloseAttempts>2</NumberCloseAttempts>
  <LockSequence>0</LockSequence>
  <IfDispatchedOnRoute>0</IfDispatchedOnRoute>
  <IfForcedClosed>0</IfForcedClosed>
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <IfActivationCall>0</IfActivationCall>
  <DispatchOrder>0</DispatchOrder>
  <CustomerID />
  <ATMSerialNumber />
  <Region>TestRegionD</Region>
  <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
  <ServiceBranch />
</LockLogRecord>
</RESPONSE_LOCK_LOG_QUERY>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran lock log query transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.

1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

This example queries the lock log table for any open dispatches for lock VLK019. The lock dispatches for Route mode sequences 1, 2, and 3 are returned for lock VLK019.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/log/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/log/query
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "lockLogQueryRecordField" :
  {
    "aTMSerialNumberField" : null ,
    "closeDateEndField" : null ,
    "closeDateEndFieldSpecified" : false ,
    "closeDateStartField" : null ,
    "closeDateStartFieldSpecified" : false ,
    "customerIDField" : null ,
    "customerNumberField" : null ,
    "dispatchIDField" : null ,
    "groupNameField" : null ,
    "ifActivationCallField" : false ,
    "ifActivationCallFieldSpecified" : false ,
    "ifDispatchedOnRouteField" : false ,
    "ifDispatchedOnRouteFieldSpecified" : false ,
    "ifDualModeField" : false ,
    "ifDualModeFieldSpecified" : false ,
    "ifForcedCloseNoSealField" : false ,
    "ifForcedCloseNoSealFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifSecondLineMaintenanceCallFieldSpecified" : false ,
    "ifUnassignedOpenCallField" : false ,
    "ifUnassignedOpenCallFieldSpecified" : false ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : "VLK019" ,
    "lockSequenceField" : null ,
    "openDateEndField" : null ,
    "openDateEndFieldSpecified" : false ,
    "openDateStartField" : null ,
    "openDateStartFieldSpecified" : false ,
    "regionField" : null ,
    "routeNameField" : null ,
    "serialNumberMaximumField" : null ,
    "serialNumberMinimumField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "lockLogRecordField" :
  [
    {
      "aTMSerialNumberField" : "asdfasd" ,
      "auditCountField" : "13" ,
      "closeDateField" : null ,
      "customerIDField" : "asdf" ,
      "customerNumberField" : "160080" ,
      "dispatchIDField" : "CentranSS" ,
      "dispatchOrderField" : "2" ,
      "groupNameField" : " " ,
      "ifActivationCallField" : false ,
      "ifDispatchedOnRouteField" : true ,
      "ifDualModeField" : false ,
      "ifForcedClosedField" : false ,
      "ifSecondLineMaintenanceCallField" : false ,
      "ifUnassignedOpenCallField" : false ,
      "lockModeField" : 1 ,
      "lockNameField" : "VLK019" ,
      "lockSequenceField" : "1" ,
      "numberCloseAttemptsField" : "0" ,
      "openDateField" : "\/Date(1409175165347)\/" ,

```

```

        "regionField" : "KENTUCKY" ,
        "routeNameField" : "TestRte6" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "auditCountField" : "13" ,
        "closeDateField" : null ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "dispatchIDField" : "CentranSS" ,
        "dispatchOrderField" : "3" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "2" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1409175165993)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "TestRte6" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "auditCountField" : "13" ,
        "closeDateField" : null ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "dispatchIDField" : "CentranSS" ,
        "dispatchOrderField" : "4" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "3" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1409175166673)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "TestRte6" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    }
] ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Number of lock log records matching the given query: 3."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_LOCK_LOG_QUERYField" :
{
    "dispatcherIDField" : "CentranSS" ,
    "lockLogQueryRecordField" :
    {
        "aTMSerialNumberField" : null ,
        "closeDateEndField" : null ,
        "closeDateEndFieldSpecified" : false ,
        "closeDateStartField" : null ,
        "closeDateStartFieldSpecified" : false ,
        "customerIDField" : null ,
        "customerNumberField" : null ,
        "dispatchIDField" : null ,
        "groupNameField" : null ,
        "ifActivationCallField" : false ,
        "ifActivationCallFieldSpecified" : false ,
        "ifDispatchedOnRouteField" : false ,
        "ifDispatchedOnRouteFieldSpecified" : false ,

```

```

        "ifDualModeField" : false ,
        "ifDualModeFieldSpecified" : false ,
        "ifForcedCloseNoSealField" : false ,
        "ifForcedCloseNoSealFieldSpecified" : false ,
        "ifSearchExactField" : false ,
        "ifSearchExactFieldSpecified" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifSecondLineMaintenanceCallFieldSpecified" : false ,
        "ifUnassignedOpenCallField" : false ,
        "ifUnassignedOpenCallFieldSpecified" : false ,
        "lockModeField" : 0 ,
        "lockModeFieldSpecified" : false ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : null ,
        "openDateEndField" : null ,
        "openDateEndFieldSpecified" : false ,
        "openDateStartField" : null ,
        "openDateStartFieldSpecified" : false ,
        "regionField" : null ,
        "routeNameField" : null ,
        "serialNumberMaximumField" : null ,
        "serialNumberMinimumField" : null ,
        "serviceBranchField" : null ,
        "userIDField" : null
    }
}

```

3.2.20 Web Service Lock Transactions - Lock Log Table Query Count

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This transaction returns the number of records in the lock log table matching the given query condition. It operates in the same manner as the Lock Log Table Query transaction.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/log/query-count
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/log/query-count
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_LOCK_LOG_QUERY_COUNT>
  <LockLogQueryRecord>
    <SerialNumberMaximum>532016</SerialNumberMaximum>
    <SerialNumberMinimum>532000</SerialNumberMinimum>
  </LockLogQueryRecord>
  <DispatcherID/>
</TRANSACTION_LOCK_LOG_QUERY_COUNT>
```

Example Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_QUERY_COUNT), a result record (indicating success) and a field (QueryCount) having the exact query count.

```
<RESPONSE_LOCK_LOG_QUERY_COUNT>
  <TRANSACTION_LOCK_LOG_QUERY_COUNT>
    <LockLogQueryRecord>
      <SerialNumberMaximum>532016</SerialNumberMaximum>
      <SerialNumberMinimum>532000</SerialNumberMinimum>
    </LockLogQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of lock records matching the given query: 10.</Description>
  </ResultRecord>
  <QueryCount>10</QueryCount>
</RESPONSE_LOCK_LOG_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran lock log query count transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the lock log table for a count of any open dispatches for lock VLK019. A record count of 3 for VLK019 Route mode sequences 1, 2, and 3 is returned.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/log/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/log/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "lockLogQueryRecordField" :
  {
    "aTMSerialNumberField" : null ,
    "closeDateEndField" : null ,
    "closeDateEndFieldSpecified" : false ,
    "closeDateStartField" : null ,
    "closeDateStartFieldSpecified" : false ,
    "customerIDField" : null ,
    "customerNumberField" : null ,
    "dispatchIDField" : null ,
    "groupNameField" : null ,
    "ifActivationCallField" : false ,
    "ifActivationCallFieldSpecified" : false ,
    "ifDispatchedOnRouteField" : false ,
    "ifDispatchedOnRouteFieldSpecified" : false ,
    "ifDualModeField" : false ,
    "ifDualModeFieldSpecified" : false ,
    "ifForcedCloseNoSealField" : false ,
    "ifForcedCloseNoSealFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifSecondLineMaintenanceCallFieldSpecified" : false ,
    "ifUnassignedOpenCallField" : false ,
    "ifUnassignedOpenCallFieldSpecified" : false ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : "VLK019" ,
    "lockSequenceField" : null ,
    "openDateEndField" : null ,
    "openDateEndFieldSpecified" : false ,
    "openDateStartField" : null ,
    "openDateStartFieldSpecified" : false ,
    "regionField" : null ,
    "routeNameField" : null ,
    "serialNumberMaximumField" : null ,
    "serialNumberMinimumField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "3" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of lock records matching the given query: 3."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_LOCK_LOG_QUERY_COUNTField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "lockLogQueryRecordField" :
    {
      "aTMSerialNumberField" : null ,
      "closeDateEndField" : null ,
      "closeDateEndFieldSpecified" : false ,
      "closeDateStartField" : null ,
      "closeDateStartFieldSpecified" : false ,
      "customerIDField" : null ,
      "customerNumberField" : null ,
      "dispatchIDField" : null ,
      "groupNameField" : null ,
      "ifActivationCallField" : false ,
      "ifActivationCallFieldSpecified" : false ,
      "ifDispatchedOnRouteField" : false ,
      "ifDispatchedOnRouteFieldSpecified" : false ,
      "ifDualModeField" : false ,

```



```

        "ifDualModeFieldSpecified" : false ,
        "ifForcedCloseNoSealField" : false ,
        "ifForcedCloseNoSealFieldSpecified" : false ,
        "ifSearchExactField" : false ,
        "ifSearchExactFieldSpecified" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifSecondLineMaintenanceCallFieldSpecified" : false ,
        "ifUnassignedOpenCallField" : false ,
        "ifUnassignedOpenCallFieldSpecified" : false ,
        "lockModeField" : 0 ,
        "lockModeFieldSpecified" : false ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : null ,
        "openDateEndField" : null ,
        "openDateEndFieldSpecified" : false ,
        "openDateStartField" : null ,
        "openDateStartFieldSpecified" : false ,
        "regionField" : null ,
        "routeNameField" : null ,
        "serialNumberMaximumField" : null ,
        "serialNumberMinimumField" : null ,
        "serviceBranchField" : null ,
        "userIDField" : null
    }
}

```

3.2.21 Web Service Lock Transactions - Lock Log History Table Query

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This transaction queries the lock log history table for a set of lock log records resulting from previous opens and closes of locks. The input web service transaction body contains a query record which in turn contains a set of lock log fields to create a query from. The query record also contains a flag indicating if to use like search or exact search.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the lock log records in the lock log history table are retrieved.

- Lock Name
- Dispatched User ID (searches for this User ID in both the FLM1ID and FLM2ID lock record fields)
- Route Name
- Group Name
- Lock Mode
- If Dual Mode
- Customer Number
- Open Date range (Open Date Start and Open Date End dates)
- Close Date range (Close Date Start and Close Date End dates)
- If Unassigned Open Call
- Customer ID
- ATM Serial Number
- Region
- Service Branch
- If Search Exact (If the value for this field is false, then like search is used)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Note

If the Dispatcher belongs to a local region and region control is enabled, only those locks belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region even if a different value has already been provided in the query record.

For the Open Date Range and Close Date Range search, the lower and upper bounds for the search can be specified independently i.e. Open Date Start may be specified in the query record while Open Date End may be left out and vice versa.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the lock log records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open lock log history table.

Example - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/log-history/query
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/log-history/query
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_LOCK_LOG_HISTORY_QUERY>
  <LockLogQueryRecord>
    <OpenDateStart>2012-04-10T00:00:00</OpenDateStart>
    <UserID>F3</UserID>
  </LockLogQueryRecord>
  <DispatcherID/>
</TRANSACTION_LOCK_LOG_HISTORY_QUERY>
```

Example Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_HISTORY_QUERY), a result record (indicating success) and the lock log records matching the search query.

```
<RESPONSE_LOCK_LOG_HISTORY_QUERY>
  <TRANSACTION_LOCK_LOG_HISTORY_QUERY>
    <LockLogQueryRecord>
      <OpenDateStart>2012-04-10T00:00:00</OpenDateStart>
      <UserID>F3</UserID>
    </LockLogQueryRecord>
```

```

    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_HISTORY_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of lock log records matching the given query: 2.</Description>
  </ResultRecord>
  <LockLogRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <DispatchID>CENTRAN</DispatchID>
    <User1ID>F3</User1ID>
    <User2ID/>
    <RouteName/>
    <GroupName>AA001</GroupName>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>3</AuditCount>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <CustomerNumber>928503</CustomerNumber>
    <OpenDate>2012-04-13T14:27:14.703Z</OpenDate>
    <CloseDate>2012-04-16T17:15:32.117Z</CloseDate>
    <NumberCloseAttempts>0</NumberCloseAttempts>
    <LockSequence>0</LockSequence>
    <IfDispatchedOnRoute>>false</IfDispatchedOnRoute>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <DispatchOrder>0</DispatchOrder>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <Region>KENTUCKY</Region>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <ServiceBranch>My new service branch</ServiceBranch>
  </LockLogRecord>
  <LockLogRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <DispatchID>CENTRAN</DispatchID>
    <User1ID>F3</User1ID>
    <User2ID/>
    <RouteName/>
    <GroupName>AA001</GroupName>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>4</AuditCount>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <CustomerNumber>928503</CustomerNumber>
    <OpenDate>2012-04-16T17:17:23.627Z</OpenDate>
    <CloseDate>2012-04-16T18:53:31.023Z</CloseDate>
    <NumberCloseAttempts>0</NumberCloseAttempts>
    <LockSequence>0</LockSequence>
    <IfDispatchedOnRoute>>false</IfDispatchedOnRoute>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <DispatchOrder>0</DispatchOrder>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <Region>KENTUCKY</Region>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <ServiceBranch>My new service branch</ServiceBranch>
  </LockLogRecord>
</RESPONSE_LOCK_LOG_HISTORY_QUERY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran lock log history query transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.

1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

This example queries the lock log history table for the dispatch history of lock VLK019. 12 previous dispatches of lock VLK019 is returned.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/log-history/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/log-history/query
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "lockLogQueryRecordField" :
  {
    "aTMSerialNumberField" : null ,
    "closeDateEndField" : null ,
    "closeDateEndFieldSpecified" : false ,
    "closeDateStartField" : null ,
    "closeDateStartFieldSpecified" : false ,
    "customerIDField" : null ,
    "customerNumberField" : null ,
    "dispatchIDField" : null ,
    "groupNameField" : null ,
    "ifActivationCallField" : false ,
    "ifActivationCallFieldSpecified" : false ,
    "ifDispatchedOnRouteField" : false ,
    "ifDispatchedOnRouteFieldSpecified" : false ,
    "ifDualModeField" : false ,
    "ifDualModeFieldSpecified" : false ,
    "ifForcedCloseNoSealField" : false ,
    "ifForcedCloseNoSealFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifSecondLineMaintenanceCallFieldSpecified" : false ,
    "ifUnassignedOpenCallField" : false ,
    "ifUnassignedOpenCallFieldSpecified" : false ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : "VLK019" ,
    "lockSequenceField" : null ,
    "openDateEndField" : null ,
    "openDateEndFieldSpecified" : false ,
    "openDateStartField" : null ,
    "openDateStartFieldSpecified" : false ,
    "regionField" : null ,
    "routeNameField" : null ,
    "serialNumberMaximumField" : null ,
    "serialNumberMinimumField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "lockLogRecordField" :
  [
    {
      "aTMSerialNumberField" : "asdfasd" ,
      "auditCountField" : "5" ,
      "closeDateField" : "\/Date(1400160020307)\/" ,
      "customerIDField" : "asdf" ,
      "customerNumberField" : "160080" ,
      "dispatchIDField" : "MHG\\LSTALL" ,
      "dispatchOrderField" : "0" ,
      "groupNameField" : " " ,
      "ifActivationCallField" : false ,
      "ifDispatchedOnRouteField" : false ,
      "ifDualModeField" : false ,
      "ifForcedClosedField" : true ,
      "ifSecondLineMaintenanceCallField" : false ,
      "ifUnassignedOpenCallField" : false ,
      "lockModeField" : 1 ,
      "lockNameField" : "VLK019" ,
      "lockSequenceField" : "0" ,
      "numberCloseAttemptsField" : "0" ,
      "openDateField" : "\/Date(1400100660087)\/" ,

```

```

        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "auditCountField" : "6" ,
        "closeDateField" : "\/Date(1400175420163)\/" ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "dispatchIDField" : "MHG\\LSTALL" ,
        "dispatchOrderField" : "0" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : true ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "0" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1400175183070)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "auditCountField" : "7" ,
        "closeDateField" : "\/Date(1400176412233)\/" ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "dispatchIDField" : "MHG\\LSTALL" ,
        "dispatchOrderField" : "0" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : true ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "0" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1400175977490)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "auditCountField" : "8" ,
        "closeDateField" : "\/Date(1400181782430)\/" ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "dispatchIDField" : "MHG\\LSTALL" ,
        "dispatchOrderField" : "0" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : true ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "0" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1400181489747)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "asdfasd" ,

```

```

"auditCountField" : "9" ,
"closeDateField" : "\/Date(1400183262490)\/" ,
"customerIDField" : "asdf" ,
"customerNumberField" : "160080" ,
"dispatchIDField" : "MHG\\LSTALL" ,
"dispatchOrderField" : "0" ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDispatchedOnRouteField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : true ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"lockModeField" : 1 ,
"lockNameField" : "VLK019" ,
"lockSequenceField" : "0" ,
"numberCloseAttemptsField" : "0" ,
"openDateField" : "\/Date(1400183013697)\/" ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "532019" ,
"serviceBranchField" : "the new service branch" ,
"user1IDField" : "nr1" ,
"user2IDField" : ""
} ,
{
"aTMSerialNumberField" : "asdfasd" ,
"auditCountField" : "10" ,
"closeDateField" : "\/Date(1400184175663)\/" ,
"customerIDField" : "asdf" ,
"customerNumberField" : "160080" ,
"dispatchIDField" : "MHG\\LSTALL" ,
"dispatchOrderField" : "0" ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDispatchedOnRouteField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"lockModeField" : 1 ,
"lockNameField" : "VLK019" ,
"lockSequenceField" : "0" ,
"numberCloseAttemptsField" : "0" ,
"openDateField" : "\/Date(1400183402727)\/" ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "532019" ,
"serviceBranchField" : "the new service branch" ,
"user1IDField" : "nr1" ,
"user2IDField" : ""
} ,
{
"aTMSerialNumberField" : "asdfasd" ,
"auditCountField" : "11" ,
"closeDateField" : "\/Date(1400184347637)\/" ,
"customerIDField" : "asdf" ,
"customerNumberField" : "160080" ,
"dispatchIDField" : "MHG\\LSTALL" ,
"dispatchOrderField" : "0" ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDispatchedOnRouteField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"lockModeField" : 1 ,
"lockNameField" : "VLK019" ,
"lockSequenceField" : "0" ,
"numberCloseAttemptsField" : "0" ,
"openDateField" : "\/Date(1400184294947)\/" ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "532019" ,
"serviceBranchField" : "the new service branch" ,
"user1IDField" : "nr1" ,
"user2IDField" : ""
} ,
{
"aTMSerialNumberField" : "asdfasd" ,
"auditCountField" : "12" ,
"closeDateField" : "\/Date(1400184434000)\/" ,
"customerIDField" : "asdf" ,
"customerNumberField" : "160080" ,
"dispatchIDField" : "MHG\\LSTALL" ,
"dispatchOrderField" : "0" ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDispatchedOnRouteField" : false ,

```

```

        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "0" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1400184390730)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nrl" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "auditCountField" : "13" ,
        "closeDateField" : "\/Date(1400511516127)\/" ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "dispatchIDField" : "MHG\\LSTALL" ,
        "dispatchOrderField" : "0" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "0" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1400511451493)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nrl" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "auditCountField" : "1" ,
        "closeDateField" : "\/Date(1360604295790)\/" ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "dispatchIDField" : "MHG\\lstall" ,
        "dispatchOrderField" : "2" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "1" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1310651850917)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "TestRte6" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nrl" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "auditCountField" : "1" ,
        "closeDateField" : "\/Date(1400097985200)\/" ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "dispatchIDField" : "MHG\\lstall" ,
        "dispatchOrderField" : "3" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : true ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "2" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1310651852133)\/" ,

```



```

        "regionField" : "KENTUCKY" ,
        "routeNameField" : "TestRte6" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "auditCountField" : "4" ,
        "closeDateField" : "\/Date(1400097988687)\/" ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "dispatchIDField" : "MHG\\lsta11" ,
        "dispatchOrderField" : "4" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : true ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "3" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1310651853460)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "TestRte6" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    }
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Number of lock log records matching the given query: 12."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"transactionLockLogHistoryQueryField" :
{
    "dispatcherIDField" : "CentranSS" ,
    "lockLogQueryRecordField" :
    {
        "aTMSerialNumberField" : null ,
        "closeDateEndField" : null ,
        "closeDateEndFieldSpecified" : false ,
        "closeDateStartField" : null ,
        "closeDateStartFieldSpecified" : false ,
        "customerIDField" : null ,
        "customerNumberField" : null ,
        "dispatchIDField" : null ,
        "groupNameField" : null ,
        "ifActivationCallField" : false ,
        "ifActivationCallFieldSpecified" : false ,
        "ifDispatchedOnRouteField" : false ,
        "ifDispatchedOnRouteFieldSpecified" : false ,
        "ifDualModeField" : false ,
        "ifDualModeFieldSpecified" : false ,
        "ifForcedCloseNoSealField" : false ,
        "ifForcedCloseNoSealFieldSpecified" : false ,
        "ifSearchExactField" : false ,
        "ifSearchExactFieldSpecified" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifSecondLineMaintenanceCallFieldSpecified" : false ,
        "ifUnassignedOpenCallField" : false ,
        "ifUnassignedOpenCallFieldSpecified" : false ,
        "lockModeField" : 0 ,
        "lockModeFieldSpecified" : false ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : null ,
        "openDateEndField" : null ,
        "openDateEndFieldSpecified" : false ,
        "openDateStartField" : null ,
        "openDateStartFieldSpecified" : false ,
        "regionField" : null ,
        "routeNameField" : null ,
        "serialNumberMaximumField" : null ,
        "serialNumberMinimumField" : null ,
        "serviceBranchField" : null ,
        "userIDField" : null
    }
}
}

```


3.2.22 Web Service Lock Transactions - Lock Log History Table Query Count

CenTran Programming Reference Manual

This transaction returns the number of records in the lock log history table matching the given query condition. It operates in the same manner as the Lock Log Table Query transaction.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/log-history/query-count
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/log-history/query-count
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_LOCK_LOG_HISTORY_QUERY_COUNT>
  <LockLogQueryRecord>
    <IfDispatchedOnRoute>true</IfDispatchedOnRoute>
    <DispatchID>CENTRAN</DispatchID>
  </LockLogQueryRecord>
  <DispatcherID/>
</TRANSACTION_LOCK_LOG_HISTORY_QUERY_COUNT>
```

Example Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_HISTORY_QUERY_COUNT), a result record (indicating success) and a field (QueryCount) having the exact query count.

```
<RESPONSE_LOCK_LOG_HISTORY_QUERY_COUNT>
  <TRANSACTION_LOCK_LOG_HISTORY_QUERY_COUNT>
    <LockLogQueryRecord>
      <IfDispatchedOnRoute>true</IfDispatchedOnRoute>
      <DispatchID>CENTRAN</DispatchID>
    </LockLogQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_HISTORY_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of lock records matching the given query: 86.</Description>
  </ResultRecord>
  <QueryCount>86</QueryCount>
</RESPONSE_LOCK_LOG_HISTORY_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This field is used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran lock log history query count transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the lock log history table for the dispatch history of lock VLK019. 12 previous dispatches of lock VLK019 is returned.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/log-history/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/log-history/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "lockLogQueryRecordField" :
  {
    "aTMSerialNumberField" : null ,
    "closeDateEndField" : null ,
    "closeDateEndFieldSpecified" : false ,
    "closeDateStartField" : null ,
    "closeDateStartFieldSpecified" : false ,
    "customerIDField" : null ,
    "customerNumberField" : null ,
    "dispatchIDField" : null ,
    "groupNameField" : null ,
    "ifActivationCallField" : false ,
    "ifActivationCallFieldSpecified" : false ,
    "ifDispatchedOnRouteField" : false ,
    "ifDispatchedOnRouteFieldSpecified" : false ,
    "ifDualModeField" : false ,
    "ifDualModeFieldSpecified" : false ,
    "ifForcedCloseNoSealField" : false ,
    "ifForcedCloseNoSealFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifSecondLineMaintenanceCallFieldSpecified" : false ,
    "ifUnassignedOpenCallField" : false ,
    "ifUnassignedOpenCallFieldSpecified" : false ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : "VLK019" ,
    "lockSequenceField" : null ,
    "openDateEndField" : null ,
    "openDateEndFieldSpecified" : false ,
    "openDateStartField" : null ,
    "openDateStartFieldSpecified" : false ,
    "regionField" : null ,
    "routeNameField" : null ,
    "serialNumberMaximumField" : null ,
    "serialNumberMinimumField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "12" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of lock records matching the given query: 12."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_LOCK_LOG_HISTORY_QUERY_COUNTField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "lockLogQueryRecordField" :
    {
      "aTMSerialNumberField" : null ,
      "closeDateEndField" : null ,
      "closeDateEndFieldSpecified" : false ,
      "closeDateStartField" : null ,
      "closeDateStartFieldSpecified" : false ,
      "customerIDField" : null ,
      "customerNumberField" : null ,
      "dispatchIDField" : null ,
      "groupNameField" : null ,
      "ifActivationCallField" : false ,
      "ifActivationCallFieldSpecified" : false ,
      "ifDispatchedOnRouteField" : false ,
      "ifDispatchedOnRouteFieldSpecified" : false ,
      "ifDualModeField" : false ,

```

```

        "ifDualModeFieldSpecified" : false ,
        "ifForcedCloseNoSealField" : false ,
        "ifForcedCloseNoSealFieldSpecified" : false ,
        "ifSearchExactField" : false ,
        "ifSearchExactFieldSpecified" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifSecondLineMaintenanceCallFieldSpecified" : false ,
        "ifUnassignedOpenCallField" : false ,
        "ifUnassignedOpenCallFieldSpecified" : false ,
        "lockModeField" : 0 ,
        "lockModeFieldSpecified" : false ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : null ,
        "openDateEndField" : null ,
        "openDateEndFieldSpecified" : false ,
        "openDateStartField" : null ,
        "openDateStartFieldSpecified" : false ,
        "regionField" : null ,
        "routeNameField" : null ,
        "serialNumberMaximumField" : null ,
        "serialNumberMinimumField" : null ,
        "serviceBranchField" : null ,
        "userIDField" : null
    }
}

```

3.2.23 Web Service Lock Transactions - Lock Log Archive Table Query

CenTran Programming Reference Manual

This transaction queries the lock log archive table for a set of lock log records of previous opens and closes of locks. The lock log archive table contains records that have been archived from the lock log history table. The input web service transaction body contains a query record which in turn contains a set of lock log fields to create a query from. The query record also contains a flag indicating if to use like search or exact search.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the lock log records in the lock log archive table are retrieved.

- Lock Name
- Dispatched User ID (searches for this User ID in both the FLM1ID and FLM2ID lock record fields)
- Route Name
- Group Name
- Lock Mode
- If Dual Mode
- Customer Number
- Open Date range (Open Date Start and Open Date End dates)
- Close Date range (Close Date Start and Close Date End dates)
- If Unassigned Open Call
- Customer ID
- ATM Serial Number
- Region
- Service Branch
- If Search Exact (If the value for this field is false, then like search is used)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Note

If the Dispatcher belongs to a local region and region control is enabled, only those locks belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region even if a different value has already been provided in the query record.

For the Open Date Range and Close Date Range search, the lower and upper bounds for the search can be specified independently i.e. Open Date Start may be specified in the query record while Open Date End may be left out and vice versa.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the lock log records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open lock log archive table.

Example - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/log-archive/query
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/log-archive/query
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_LOCK_LOG_ARCHIVE_QUERY>
  <LockLogQueryRecord>
    <RouteName>s_route2</RouteName>
  </LockLogQueryRecord>
  <DispatcherID/>
</TRANSACTION_LOCK_LOG_ARCHIVE_QUERY>
```

Example Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_ARCHIVE_QUERY), a result record (indicating success) and the lock log records matching the search query.

```
<RESPONSE_LOCK_LOG_ARCHIVE_QUERY>
  <TRANSACTION_LOCK_LOG_ARCHIVE_QUERY>
    <LockLogQueryRecord>
      <RouteName>s_route2</RouteName>
    </LockLogQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_ARCHIVE_QUERY>
```

```

<ResultRecord>
  <Result>Success</Result>
  <ErrorCode>RC_OK</ErrorCode>
  <Description>Number of lock log records matching the given query: 6.</Description>
</ResultRecord>
<LockLogRecord>
  <LockName>VLK014</LockName>
  <DispatchID>Centran123</DispatchID>
  <User1ID>rzjane</User1ID>
  <User2ID/>
  <RouteName>s_route2</RouteName>
  <GroupName>some gro</GroupName>
  <SerialNumber>532214</SerialNumber>
  <AuditCount>8</AuditCount>
  <LockMode>R</LockMode>
  <IfDualMode>>false</IfDualMode>
  <CustomerNumber>123456</CustomerNumber>
  <OpenDate>2006-11-10T18:31:03Z</OpenDate>
  <CloseDate>2006-11-10T19:00:43Z</CloseDate>
  <NumberCloseAttempts>0</NumberCloseAttempts>
  <LockSequence>1</LockSequence>
  <IfDispatchedOnRoute>>true</IfDispatchedOnRoute>
  <IfForcedClosed>>false</IfForcedClosed>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <DispatchOrder>2</DispatchOrder>
  <CustomerID>asdf</CustomerID>
  <ATMSerialNumber>asdfasd</ATMSerialNumber>
  <Region>asdf</Region>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
  <ServiceBranch>the new service branch</ServiceBranch>
</LockLogRecord>
<LockLogRecord>
  <LockName>VLK014</LockName>
  <DispatchID>Centran123</DispatchID>
  <User1ID>rzjane</User1ID>
  <User2ID/>
  <RouteName>s_route2</RouteName>
  <GroupName>some gro</GroupName>
  <SerialNumber>532214</SerialNumber>
  <AuditCount>8</AuditCount>
  <LockMode>R</LockMode>
  <IfDualMode>>false</IfDualMode>
  <CustomerNumber>123456</CustomerNumber>
  <OpenDate>2006-11-10T19:09:17Z</OpenDate>
  <CloseDate>2006-11-10T19:09:26Z</CloseDate>
  <NumberCloseAttempts>0</NumberCloseAttempts>
  <LockSequence>1</LockSequence>
  <IfDispatchedOnRoute>>true</IfDispatchedOnRoute>
  <IfForcedClosed>>false</IfForcedClosed>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <DispatchOrder>2</DispatchOrder>
  <CustomerID>asdf</CustomerID>
  <ATMSerialNumber>asdfasd</ATMSerialNumber>
  <Region>asdf</Region>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
  <ServiceBranch>the new service branch</ServiceBranch>
</LockLogRecord>
<LockLogRecord>
  <LockName>VLK016</LockName>
  <DispatchID>Centran123</DispatchID>
  <User1ID>rzjane</User1ID>
  <User2ID>rzjohn</User2ID>
  <RouteName>s_route2</RouteName>
  <GroupName/>
  <SerialNumber>532016</SerialNumber>
  <AuditCount>15</AuditCount>
  <LockMode>R</LockMode>
  <IfDualMode>true</IfDualMode>
  <CustomerNumber>123456</CustomerNumber>
  <OpenDate>2006-11-10T18:31:03Z</OpenDate>
  <CloseDate>2006-11-10T19:00:10Z</CloseDate>
  <NumberCloseAttempts>0</NumberCloseAttempts>
  <LockSequence>1</LockSequence>
  <IfDispatchedOnRoute>true</IfDispatchedOnRoute>
  <IfForcedClosed>>false</IfForcedClosed>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <DispatchOrder>0</DispatchOrder>
  <CustomerID/>
  <ATMSerialNumber/>
  <Region/>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
  <ServiceBranch>the new service branch</ServiceBranch>
</LockLogRecord>
<LockLogRecord>
  <LockName>VLK016</LockName>
  <DispatchID>Centran123</DispatchID>
  <User1ID>rzjane</User1ID>
  <User2ID>rzjohn</User2ID>
  <RouteName>s_route2</RouteName>
  <GroupName/>
  <SerialNumber>532016</SerialNumber>
  <AuditCount>15</AuditCount>
  <LockMode>R</LockMode>
  <IfDualMode>true</IfDualMode>

```



```

<CustomerNumber>123456</CustomerNumber>
<OpenDate>2006-11-10T19:09:17Z</OpenDate>
<CloseDate>2006-11-10T19:09:25Z</CloseDate>
<NumberCloseAttempts>0</NumberCloseAttempts>
<LockSequence>1</LockSequence>
<IfDispatchedOnRoute>true</IfDispatchedOnRoute>
<IfForcedClosed>false</IfForcedClosed>
<IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
<IfActivationCall>false</IfActivationCall>
<DispatchOrder>0</DispatchOrder>
<CustomerID/>
<ATMSerialNumber/>
<Region/>
<IfUnassignedOpenCall>false</IfUnassignedOpenCall>
<ServiceBranch>the new service branch</ServiceBranch>
</LockLogRecord>
<LockLogRecord>
  <LockName>VLK016</LockName>
  <DispatchID>Centran123</DispatchID>
  <User1ID>rzjane</User1ID>
  <User2ID>rzjohn</User2ID>
  <RouteName>s_route2</RouteName>
  <GroupName/>
  <SerialNumber>532016</SerialNumber>
  <AuditCount>17</AuditCount>
  <LockMode>R</LockMode>
  <IfDualMode>true</IfDualMode>
  <CustomerNumber>123456</CustomerNumber>
  <OpenDate>2006-11-10T18:31:03Z</OpenDate>
  <CloseDate>2006-11-10T19:00:10Z</CloseDate>
  <NumberCloseAttempts>0</NumberCloseAttempts>
  <LockSequence>2</LockSequence>
  <IfDispatchedOnRoute>true</IfDispatchedOnRoute>
  <IfForcedClosed>false</IfForcedClosed>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <DispatchOrder>1</DispatchOrder>
  <CustomerID/>
  <ATMSerialNumber/>
  <Region/>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
  <ServiceBranch>the new service branch</ServiceBranch>
</LockLogRecord>
<LockLogRecord>
  <LockName>VLK016</LockName>
  <DispatchID>Centran123</DispatchID>
  <User1ID>rzjane</User1ID>
  <User2ID>rzjohn</User2ID>
  <RouteName>s_route2</RouteName>
  <GroupName/>
  <SerialNumber>532016</SerialNumber>
  <AuditCount>17</AuditCount>
  <LockMode>R</LockMode>
  <IfDualMode>true</IfDualMode>
  <CustomerNumber>123456</CustomerNumber>
  <OpenDate>2006-11-10T19:09:17Z</OpenDate>
  <CloseDate>2006-11-10T19:09:25Z</CloseDate>
  <NumberCloseAttempts>0</NumberCloseAttempts>
  <LockSequence>2</LockSequence>
  <IfDispatchedOnRoute>true</IfDispatchedOnRoute>
  <IfForcedClosed>false</IfForcedClosed>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <DispatchOrder>1</DispatchOrder>
  <CustomerID/>
  <ATMSerialNumber/>
  <Region/>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
  <ServiceBranch>the new service branch</ServiceBranch>
</LockLogRecord>
</RESPONSE_LOCK_LOG_ARCHIVE_QUERY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran lock log archive query transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

This example queries the lock log history table for the dispatch history of lock VLK103. 10 previous dispatches of lock VLK103 is returned.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/log-archive/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/log-archive/query
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "lockLogQueryRecordField" :
  {
    "aTMSerialNumberField" : null ,
    "closeDateEndField" : null ,
    "closeDateEndFieldSpecified" : false ,
    "closeDateStartField" : null ,
    "closeDateStartFieldSpecified" : false ,
    "customerIDField" : null ,
    "customerNumberField" : null ,
    "dispatchIDField" : null ,
    "groupNameField" : null ,
    "ifActivationCallField" : false ,
    "ifActivationCallFieldSpecified" : false ,
    "ifDispatchedOnRouteField" : false ,
    "ifDispatchedOnRouteFieldSpecified" : false ,
    "ifDualModeField" : false ,
    "ifDualModeFieldSpecified" : false ,
    "ifForcedCloseNoSealField" : false ,
    "ifForcedCloseNoSealFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifSecondLineMaintenanceCallFieldSpecified" : false ,
    "ifUnassignedOpenCallField" : false ,
    "ifUnassignedOpenCallFieldSpecified" : false ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : "VLK103" ,
    "lockSequenceField" : null ,
    "openDateEndField" : null ,
    "openDateEndFieldSpecified" : false ,
    "openDateStartField" : null ,
    "openDateStartFieldSpecified" : false ,
    "regionField" : null ,
    "routeNameField" : null ,
    "serialNumberMaximumField" : null ,
    "serialNumberMinimumField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "lockLogRecordField" :
  [
    {
      "aTMSerialNumberField" : "" ,
      "auditCountField" : "2" ,
      "closeDateField" : "\/Date(1048798157000)\/" ,
      "customerIDField" : "" ,
      "customerNumberField" : "123456" ,
      "dispatchIDField" : "sad" ,
      "dispatchOrderField" : "0" ,
      "groupNameField" : "" ,
      "ifActivationCallField" : true ,
      "ifDispatchedOnRouteField" : false ,
      "ifDualModeField" : false ,

```

```

        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 0 ,
        "lockNameField" : "VLK103" ,
        "lockSequenceField" : "0" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\Date(1048789581000)\" ,
        "regionField" : "Testing" ,
        "routeNameField" : "" ,
        "serialNumberField" : "532103" ,
        "serviceBranchField" : "" ,
        "user1IDField" : "fbob" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditCountField" : "2" ,
        "closeDateField" : "\Date(1048800353000)\" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "dispatchIDField" : "sad" ,
        "dispatchOrderField" : "0" ,
        "groupNameField" : "" ,
        "ifActivationCallField" : true ,
        "ifDispatchedOnRouteField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK103" ,
        "lockSequenceField" : "0" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\Date(1048799923000)\" ,
        "regionField" : "Testing" ,
        "routeNameField" : "" ,
        "serialNumberField" : "532103" ,
        "serviceBranchField" : "" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditCountField" : "2" ,
        "closeDateField" : "\Date(1048803290000)\" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "dispatchIDField" : "sad" ,
        "dispatchOrderField" : "0" ,
        "groupNameField" : "" ,
        "ifActivationCallField" : true ,
        "ifDispatchedOnRouteField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK103" ,
        "lockSequenceField" : "0" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\Date(1048802748000)\" ,
        "regionField" : "Testing" ,
        "routeNameField" : "" ,
        "serialNumberField" : "532103" ,
        "serviceBranchField" : "" ,
        "user1IDField" : "rdave" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditCountField" : "2" ,
        "closeDateField" : "\Date(1170878444000)\" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "dispatchIDField" : "Testing S" ,
        "dispatchOrderField" : "0" ,
        "groupNameField" : "" ,
        "ifActivationCallField" : true ,
        "ifDispatchedOnRouteField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK103" ,
        "lockSequenceField" : "0" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\Date(1170878391000)\" ,
        "regionField" : "Testing" ,

```

```

        "routeNameField" : "" ,
        "serialNumberField" : "542103" ,
        "serviceBranchField" : "" ,
        "user1IDField" : "rjrbl" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditCountField" : "3" ,
        "closeDateField" : "\/Date(1223669133000)\/" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "dispatchIDField" : "CENTRAN4" ,
        "dispatchOrderField" : "1" ,
        "groupNameField" : "" ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : true ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK103" ,
        "lockSequenceField" : "1" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1223652393000)\/" ,
        "regionField" : "Testing" ,
        "routeNameField" : "CentranTest" ,
        "serialNumberField" : "542103" ,
        "serviceBranchField" : "" ,
        "user1IDField" : "rjohn" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditCountField" : "4" ,
        "closeDateField" : "\/Date(1225830542000)\/" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "dispatchIDField" : "CENTRAN4" ,
        "dispatchOrderField" : "0" ,
        "groupNameField" : "" ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : true ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK103" ,
        "lockSequenceField" : "1" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1223672150000)\/" ,
        "regionField" : "Testing" ,
        "routeNameField" : "CentranTest" ,
        "serialNumberField" : "542103" ,
        "serviceBranchField" : "" ,
        "user1IDField" : "rjohn" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditCountField" : "5" ,
        "closeDateField" : "\/Date(1228431607000)\/" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "dispatchIDField" : "CENTRAN4" ,
        "dispatchOrderField" : "0" ,
        "groupNameField" : "" ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK103" ,
        "lockSequenceField" : "1" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1225830964000)\/" ,
        "regionField" : "Testing" ,
        "routeNameField" : "CentranTest" ,
        "serialNumberField" : "542103" ,
        "serviceBranchField" : "" ,
        "user1IDField" : "rjohn" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditCountField" : "6" ,

```

```

        "closeDateField" : "\/Date(1305306380183)\/" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "dispatchIDField" : "CENTRAN4" ,
        "dispatchOrderField" : "0" ,
        "groupNameField" : "" ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : true ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK103" ,
        "lockSequenceField" : "1" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1228431632000)\/" ,
        "regionField" : "Kentucky" ,
        "routeNameField" : "CentranTest" ,
        "serialNumberField" : "542103" ,
        "serviceBranchField" : "" ,
        "user1IDField" : "rjohn" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditCountField" : "7" ,
        "closeDateField" : "\/Date(1342548310263)\/" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "dispatchIDField" : "MHG\\LSTALL" ,
        "dispatchOrderField" : "3" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK103" ,
        "lockSequenceField" : "1" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1342537164593)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "CentranTest" ,
        "serialNumberField" : "542103" ,
        "serviceBranchField" : "" ,
        "user1IDField" : "rjohn" ,
        "user2IDField" : ""
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditCountField" : "8" ,
        "closeDateField" : "\/Date(1342624045250)\/" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "dispatchIDField" : "MHG\\LSTALL" ,
        "dispatchOrderField" : "4" ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDispatchedOnRouteField" : true ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK103" ,
        "lockSequenceField" : "1" ,
        "numberCloseAttemptsField" : "0" ,
        "openDateField" : "\/Date(1342550267243)\/" ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "CentranTest" ,
        "serialNumberField" : "542103" ,
        "serviceBranchField" : "" ,
        "user1IDField" : "nrl" ,
        "user2IDField" : ""
    }
] ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Number of lock log records matching the given query: 10."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_LOCK_LOG_ARCHIVE_QUERYField" :

```

```

{
  "dispatcherIDField" : "CentranSS" ,
  "lockLogQueryRecordField" :
  {
    "aTMSerialNumberField" : null ,
    "closeDateEndField" : null ,
    "closeDateEndFieldSpecified" : false ,
    "closeDateStartField" : null ,
    "closeDateStartFieldSpecified" : false ,
    "customerIDField" : null ,
    "customerNumberField" : null ,
    "dispatchIDField" : null ,
    "groupNameField" : null ,
    "ifActivationCallField" : false ,
    "ifActivationCallFieldSpecified" : false ,
    "ifDispatchedOnRouteField" : false ,
    "ifDispatchedOnRouteFieldSpecified" : false ,
    "ifDualModeField" : false ,
    "ifDualModeFieldSpecified" : false ,
    "ifForcedCloseNoSealField" : false ,
    "ifForcedCloseNoSealFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifSecondLineMaintenanceCallFieldSpecified" : false ,
    "ifUnassignedOpenCallField" : false ,
    "ifUnassignedOpenCallFieldSpecified" : false ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : "VLK103" ,
    "lockSequenceField" : null ,
    "openDateEndField" : null ,
    "openDateEndFieldSpecified" : false ,
    "openDateStartField" : null ,
    "openDateStartFieldSpecified" : false ,
    "regionField" : null ,
    "routeNameField" : null ,
    "serialNumberMaximumField" : null ,
    "serialNumberMinimumField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : null
  }
}

```

3.2.24 Web Service Lock Transactions - Lock Log Archive Table Query Count

CenTran Programming Reference Manual

This transaction returns the number of records in the lock log archive table matching the given query condition. It operates in the same manner as the Lock Log Table Query transaction.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/log-archive/query-count
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/log-archive/query-count
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_LOCK_LOG_ARCHIVE_QUERY_COUNT>
  <LockLogQueryRecord>
    <UserID>rzjane</UserID>
  </LockLogQueryRecord>
  <DispatcherID/>
</TRANSACTION_LOCK_LOG_ARCHIVE_QUERY_COUNT>
```

Example Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_LOCK_LOG_ARCHIVE_QUERY_COUNT), a result record (indicating success) and a field (QueryCount) having the exact query count.

```
<RESPONSE_LOCK_LOG_ARCHIVE_QUERY_COUNT>
  <TRANSACTION_LOCK_LOG_ARCHIVE_QUERY_COUNT>
    <LockLogQueryRecord>
      <UserID>rzjane</UserID>
    </LockLogQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_LOG_ARCHIVE_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of lock records matching the given query: 6.</Description>
  </ResultRecord>
  <QueryCount>6</QueryCount>
</RESPONSE_LOCK_LOG_ARCHIVE_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran lock log archive query count transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the lock log history table for the dispatch history of lock VLK103. 10 previous dispatches of lock

VLK103 is returned.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/log-archive/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/log-archive/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "lockLogQueryRecordField" :
  {
    "aTMSerialNumberField" : null ,
    "closeDateEndField" : null ,
    "closeDateEndFieldSpecified" : false ,
    "closeDateStartField" : null ,
    "closeDateStartFieldSpecified" : false ,
    "customerIDField" : null ,
    "customerNumberField" : null ,
    "dispatchIDField" : null ,
    "groupNameField" : null ,
    "ifActivationCallField" : false ,
    "ifActivationCallFieldSpecified" : false ,
    "ifDispatchedOnRouteField" : false ,
    "ifDispatchedOnRouteFieldSpecified" : false ,
    "ifDualModeField" : false ,
    "ifDualModeFieldSpecified" : false ,
    "ifForcedCloseNoSealField" : false ,
    "ifForcedCloseNoSealFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifSecondLineMaintenanceCallFieldSpecified" : false ,
    "ifUnassignedOpenCallField" : false ,
    "ifUnassignedOpenCallFieldSpecified" : false ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : "VLK103" ,
    "lockSequenceField" : null ,
    "openDateEndField" : null ,
    "openDateEndFieldSpecified" : false ,
    "openDateStartField" : null ,
    "openDateStartFieldSpecified" : false ,
    "regionField" : null ,
    "routeNameField" : null ,
    "serialNumberMaximumField" : null ,
    "serialNumberMinimumField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "10" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of lock records matching the given query: 10."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_LOCK_LOG_ARCHIVE_QUERY_COUNTField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "lockLogQueryRecordField" :
    {
      "aTMSerialNumberField" : null ,
      "closeDateEndField" : null ,
      "closeDateEndFieldSpecified" : false ,
      "closeDateStartField" : null ,
      "closeDateStartFieldSpecified" : false ,
      "customerIDField" : null ,
      "customerNumberField" : null ,
      "dispatchIDField" : null ,
      "groupNameField" : null ,
      "ifActivationCallField" : false ,
      "ifActivationCallFieldSpecified" : false ,
      "ifDispatchedOnRouteField" : false ,
      "ifDispatchedOnRouteFieldSpecified" : false ,
      "ifDualModeField" : false ,
      "ifDualModeFieldSpecified" : false ,

```

```

        "ifForcedCloseNoSealField" : false ,
        "ifForcedCloseNoSealFieldSpecified" : false ,
        "ifSearchExactField" : false ,
        "ifSearchExactFieldSpecified" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifSecondLineMaintenanceCallFieldSpecified" : false ,
        "ifUnassignedOpenCallField" : false ,
        "ifUnassignedOpenCallFieldSpecified" : false ,
        "lockModeField" : 0 ,
        "lockModeFieldSpecified" : false ,
        "lockNameField" : "VLK103" ,
        "lockSequenceField" : null ,
        "openDateEndField" : null ,
        "openDateEndFieldSpecified" : false ,
        "openDateStartField" : null ,
        "openDateStartFieldSpecified" : false ,
        "regionField" : null ,
        "routeNameField" : null ,
        "serialNumberMaximumField" : null ,
        "serialNumberMinimumField" : null ,
        "serviceBranchField" : null ,
        "userIDField" : null
    }
}
}

```

3.2.25 Web Service Lock Transactions - Initialize Lock SA Key for Audit Download

CenTran Programming Reference Manual

This transaction is used to initialize a lock SA key for audit download in the specified Cencon keybox.

Transaction information required:

- If Init for Bank Branch - Flag indicating if the lock SA key for audit download is to be initialized for a bank mode only lock. If so, the bank branch must be used to set up the security information on the lock SA key.
- Bank Branch Name - Specifies the bank branch to use if initializing the lock SA key for audit download for a bank mode only lock.
- IP Address and Port - Specifies the keybox to connect to from CenTran to initialize the key.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to initialize the key. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the key serial number information.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Incorrect model of key is present in the keybox reader slot.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/init_sa_key_audit_download
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/init_sa_key_audit_download
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
<IfInitForBankBranch>false</IfInitForBankBranch>
<IPAddress>/>
<CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
<CommunicationsMethod>TcpClient</CommunicationsMethod>
<DispatcherID>/>
```

```
</TRANSACTION_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
```

Example Output Transaction:

```
<RESPONSE_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
  <TRANSACTION_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
    <IfInitForBankBranch>false</IfInitForBankBranch>
    <IPAddress/>
    <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Initialize lock SA key for audit download succeeded.</Description>
  </ResultRecord>
  <KeyInformation>
    <KeyID>00000000AB5D5</KeyID>
    <CanType>0C</CanType>
  </KeyInformation>
</RESPONSE_INIT_LOCK_SA_KEY_AUDIT_DOWNLOAD>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran initialize lock SA key for audit download transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the IPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

Example

This example initializes a lock SA key for audit download through a remote keybox agent network connection:
10.108.6.103:53003

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/init_sa_key_audit_download
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/init_sa_key_audit_download
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "bankBranchNameField" : null ,
  "communicationsIDField" : null ,
  "communicationsMethodField" : 0 ,
  "dispatcherIDField" : null ,
  "IPAddressField" : "10.108.6.103:53003" ,
```

```

    "ifInitForBankBranchField" : false
}

```

Example Output Transaction - JSON:

```

{
  "keyInformationField" :
  {
    "canTypeField" :
    [
      12
    ] ,
    "keyIDField" :
    [
      0 ,
      0 ,
      0 ,
      10 ,
      181 ,
      213
    ]
  } ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Initialize lock SA key for audit download succeeded."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_INIT_LOCK_SA_KEY_AUDIT_DOWNLOADField" :
  {
    "bankBranchNameField" : null ,
    "communicationsIDField" : null ,
    "communicationsMethodField" : 0 ,
    "dispatcherIDField" : "CentranSS" ,
    "IPAddressField" : "10.108.6.103:53003" ,
    "ifInitForBankBranchField" : false
  }
}

```

3.2.26 Web Service Lock Transactions - Read Lock SA Key for Audit Download

CenTran Programming Reference Manual

This transaction is used to read the lock SA key for audit download in the specified Cencon keybox. It returns the current matching lock records from the Cencon database, lock activation / shelf records from the lock SA key, and returns the lock audit records from the lock SA key.

Transaction information required:

- IP Address and Port - Specifies the keybox to connect to from CenTran to read the key from.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Input transaction
- Result record indicating success
- Up to three records with lock mode status record and matching lock record data from the Cencon database, for each mode of the lock you have security access to in your Cencon database.
- An array of lock activate / shelf records read from the lock SA key
- An array of lock audit records read from the lock SA key

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- The key in the keybox reader slot is not a lock SA key for audit download.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Lock Activate / Shelf Data:

- Serial Number - This is the serial number for the lock involved in the activate / shelf event.
- Lock Mode - This is an identifier for the lock mode involved in the activate / shelf event. This will be F, R, B.
- LockActivateShelveEvent - This indicates if the event is an activate or a shelf. This will contain either Activate or Shelf.
- OriginatingLockMode - This indicates what originating lock mode was opened in order to activate this lock mode. This will be one of the other lock modes of the lock. If the lock was previously in a shelved (no modes activated) state, this will indicate that the mode was the first mode activated. If the lock mode was activated using remote serial communications, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- ActivateShelveKey - This is the key model (can) type and key identifier of the lock SA key used to activate the lock mode. If the lock mode was activated using remote serial communications, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- ActivateShelveDate - This is the date / time of the activate / shelf event in UTC based time.
- User1Key - This is the key model (can) type and key identifier of the first user of the originating lock mode that opened the lock to activate this lock mode. If the lock mode was activated using remote serial communications, this field will not be set.
- User1BankID - If the originating lock mode was bank mode, this is the bank mode user ID of the first user of the originating lock mode that opened the lock to activate this lock mode. If the lock mode was activated using remote serial communications or if the originating lock mode was not bank mode, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- User1Date - This is the date / time that the first user of the originating lock mode opened the lock to activate this lock mode. If the lock mode was activated using remote serial communications, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- User1ID - This is the user ID looked up from the Cencon database for the first user of the originating lock mode opened the lock to activate this lock mode. If the lock mode was activated using remote serial communications, this field will not be set.
- User2Key - This is the key model (can) type and key identifier of the second user of the originating lock mode that opened the lock to activate this lock mode. If the originating lock mode was set for single access to open (not dual access), this field will not be set. If the lock mode was activated using remote serial communications, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- User2BankID - If the originating lock mode was bank mode, this is the bank mode user ID of the second user of the originating lock mode that opened the lock to activate this lock mode. If the originating lock mode was set for single access to open (not dual access), this field will not be set. If the lock mode was activated using remote serial communications or if the originating lock mode was not bank mode, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- User2Date - This is the date / time that the second user of the originating lock mode opened the lock to activate this lock mode. If the originating lock mode was set for single access to open (not dual access), this field will not be set. If the lock mode was activated using remote serial communications, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- User2ID - This is the user ID looked up from the Cencon database for the second user of the originating lock mode opened the lock to activate this lock mode. If the originating lock mode was set for single access to open (not dual access), this field will not be set. If the lock mode was activated using remote serial communications, this field will not be set. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.
- AbbreviatedCompanyID - This value allows identification of what company activated a lock mode for loss prevention. Each set of company security information for the Cencon USB Key Box includes a unique numeric value to identify the company. This value is also copied to the lock when a lock mode is activated. The company can be determined by contacting Kaba Mas customer support. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.

- AbbreviatedDeviceID - This value allows identification of what company Cencon USB Key Box activated a lock mode for loss prevention. Each set of company Cencon USB Key Box security information includes a unique numeric value to identify which Cencon USB Key Box was used to initialize the lock SA key for activating the lock. This value is copied to the lock when a lock mode is activated. The company Cencon USB Key Box can be determined by contacting Kaba Mas customer support. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.

See [Appendix E - Lock Audit Data](#) for details of the lock audit information returned by CenTran.

Note								
Key Model Descriptions:								
Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example 1 - Success reading lock SA key from Cencon Gen 1 lock.

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/read_sa_key_audit_download
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/read_sa_key_audit_download
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_READ_LOCK_SA_KEY_AUDIT_DOWNLOAD>
  <IPAddress/>
  <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
  <CommunicationsMethod>TcpClient</CommunicationsMethod>
  <DispatcherID/></DispatcherID>
</TRANSACTION_READ_LOCK_SA_KEY_AUDIT_DOWNLOAD>
```

Example Output Transaction:

```
<RESPONSE_READ_LOCK_SA_KEY_AUDIT_DOWNLOAD>
  <TRANSACTION_READ_LOCK_SA_KEY_AUDIT_DOWNLOAD>
    <IPAddress/>
    <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK_SA_KEY_AUDIT_DOWNLOAD>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>The key read audit information succeeded.</Description>
  </ResultRecord>
  <KeyInformation>
    <KeyID>000000036ACA</KeyID>
    <CanType>0C</CanType>
  </KeyInformation>
  <LockRecord>
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    <RecordType>A</RecordType>
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    <LastUsedDate>2014-01-20T19:41:34.947Z</LastUsedDate>
    <CustomerNumber>735991</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>false</IfDualMode>
```



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```

```

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```

```

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```

```

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```

```

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  <LockMode/>
  <RouteName/>
  <CustomerID/>
  <ATMSerialNumber/>
  <Region/>
  <SerialNumber>501107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName/>
  <Description>501107 Lock Event: Reset Alarm - Silent alarm found 'ON' from last
'Open'</Description>
  <auditPK>389813a4-55c5-477f-ae7e-0872ca7bc73b</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>0</LockTransactionCategory>
  <LockTransactionType>0</LockTransactionType>
  <LockTransactionEvent>4</LockTransactionEvent>
  <LockCloseSeal/>

```

```

<LockFullSealCount>0</LockFullSealCount>
<IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
<IsLockDuressComboUsed>false</IsLockDuressComboUsed>
<IsLockCloseSealValid>false</IsLockCloseSealValid>
<LockAbbreviatedDeviceID/>
<LockOpenTime/>
<LockCloseTime/>
<IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
<LockAuditIndex>0</LockAuditIndex>
<DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
<ClientIPAddress/>
<LockIPAddress/>
<IsLockAuditRecordCRCValid>true</IsLockAuditRecordCRCValid>
</LockEventAuditRecord>
<LockEventAuditRecord>
  <EventType>ENV_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
  <EventDate/>
  <PreviousDate/>
  <LogonUser1ID/>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName/>
  <LockMode/>
  <RouteName/>
  <CustomerID/>
  <ATMSerialNumber/>
  <Region/>
  <SerialNumber>501107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName/>
  <Description>501107 Lock Event: Audit Download</Description>
  <auditPK>73e5370f-73bf-4707-a82a-51db417cc0f7</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>0</LockTransactionCategory>
  <LockTransactionType>64</LockTransactionType>
  <LockTransactionEvent>5</LockTransactionEvent>
  <LockCloseSeal/>
  <LockFullSealCount>0</LockFullSealCount>
  <IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
  <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime/>
  <LockCloseTime/>
  <IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
  <LockAuditIndex>0</LockAuditIndex>
  <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
  <ClientIPAddress/>
  <LockIPAddress/>
  <IsLockAuditRecordCRCValid>true</IsLockAuditRecordCRCValid>
</LockEventAuditRecord>
<LockEventAuditRecord>
  <EventType>ENV_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
  <EventDate/>
  <PreviousDate/>
  <LogonUser1ID/>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName/>
  <LockMode/>
  <RouteName/>
  <CustomerID/>
  <ATMSerialNumber/>
  <Region/>
  <SerialNumber>501107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName/>
  <Description>501107 Lock Event: Reset Alarm - Silent alarm found 'ON' from last
'Open'</Description>
  <auditPK>92f0aedd-4957-4513-911d-6c4054b8e22a</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>0</LockTransactionCategory>
  <LockTransactionType>0</LockTransactionType>
  <LockTransactionEvent>4</LockTransactionEvent>
  <LockCloseSeal/>
  <LockFullSealCount>0</LockFullSealCount>
  <IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
  <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime/>
  <LockCloseTime/>
  <IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>

```

```

<LockAuditIndex>0</LockAuditIndex>
<DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
<ClientIPAddress/>
<LockIPAddress/>
<IsLockAuditRecordCRCValid>true</IsLockAuditRecordCRCValid>
</LockEventAuditRecord>
<LockEventAuditRecord>
  <EventType>ENV_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
  <EventDate/>
  <PreviousDate/>
  <LogonUser1ID/>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName/>
  <LockMode/>
  <RouteName/>
  <CustomerID/>
  <ATMSerialNumber/>
  <Region/>
  <SerialNumber>501107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName/>
  <Description>501107 Lock Event: Audit Download</Description>
  <auditPK>080d7a6b-f89d-43cf-93a6-aed3147010d4</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>0</LockTransactionCategory>
  <LockTransactionType>64</LockTransactionType>
  <LockTransactionEvent>5</LockTransactionEvent>
  <LockCloseSeal/>
  <LockFullSealCount>0</LockFullSealCount>
  <IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
  <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime/>
  <LockCloseTime/>
  <IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
  <LockAuditIndex>0</LockAuditIndex>
  <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
  <ClientIPAddress/>
  <LockIPAddress/>
  <IsLockAuditRecordCRCValid>true</IsLockAuditRecordCRCValid>
</LockEventAuditRecord>
<LockEventAuditRecord>
  <EventType>ENV_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
  <EventDate/>
  <PreviousDate/>
  <LogonUser1ID/>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName/>
  <LockMode/>
  <RouteName/>
  <CustomerID/>
  <ATMSerialNumber/>
  <Region/>
  <SerialNumber>501107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName/>
  <Description>501107 Lock Event: Audit Download</Description>
  <auditPK>b64e9183-5850-4de3-af4a-af64ceb1c1a9</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>0</LockTransactionCategory>
  <LockTransactionType>64</LockTransactionType>
  <LockTransactionEvent>5</LockTransactionEvent>
  <LockCloseSeal/>
  <LockFullSealCount>0</LockFullSealCount>
  <IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
  <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime/>
  <LockCloseTime/>
  <IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
  <LockAuditIndex>0</LockAuditIndex>
  <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
  <ClientIPAddress/>
  <LockIPAddress/>
  <IsLockAuditRecordCRCValid>true</IsLockAuditRecordCRCValid>
</LockEventAuditRecord>
<LockEventAuditRecord>
  <EventType>ENV_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>

```



```

<EventDate/>
<PreviousDate/>
<LogonUser1ID/>
<LogonUser2ID/>
<LogonUser3ID/>
<User1ID/>
<User2ID/>
<LockName/>
<LockMode/>
<RouteName/>
<CustomerID/>
<ATMSerialNumber/>
<Region/>
<SerialNumber>501107</SerialNumber>
<BankBranchName/>
<BankUserID>0</BankUserID>
<BankBranchID>0</BankBranchID>
<GroupName/>
<Description>501107 Lock Event: Reset Alarm - Silent alarm found 'ON' from last
'Open'</Description>
<auditPK>91d871f1-9840-4b68-a347-ec8ff41b82fe</auditPK>
<User1Key/>
<User2Key/>
<LogonKey/>
<LockTransactionCategory>0</LockTransactionCategory>
<LockTransactionType>0</LockTransactionType>
<LockTransactionEvent>4</LockTransactionEvent>
<LockCloseSeal/>
<LockFullSealCount>0</LockFullSealCount>
<IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
<IsLockDuressComboUsed>false</IsLockDuressComboUsed>
<IsLockCloseSealValid>false</IsLockCloseSealValid>
<LockAbbreviatedDeviceID/>
<LockOpenTime/>
<LockCloseTime/>
<IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
<LockAuditIndex>0</LockAuditIndex>
<DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
<ClientIPAddress/>
<LockIPAddress/>
<IsLockAuditRecordCRCValid>true</IsLockAuditRecordCRCValid>
</LockEventAuditRecord>
<LockEventAuditRecord>
  <EventType>ENV_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
  <EventDate/>
  <PreviousDate/>
  <LogonUser1ID/>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName/>
  <LockMode/>
  <RouteName/>
  <CustomerID/>
  <ATMSerialNumber/>
  <Region/>
  <SerialNumber>501107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName/>
  <Description>501107 Lock Event: Audit Download</Description>
  <auditPK>a9543595-bfd8-43f4-b2d0-39e47dbac20a</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>0</LockTransactionCategory>
  <LockTransactionType>64</LockTransactionType>
  <LockTransactionEvent>5</LockTransactionEvent>
  <LockCloseSeal/>
  <LockFullSealCount>0</LockFullSealCount>
  <IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
  <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime/>
  <LockCloseTime/>
  <IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
  <LockAuditIndex>0</LockAuditIndex>
  <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
  <ClientIPAddress/>
  <LockIPAddress/>
  <IsLockAuditRecordCRCValid>true</IsLockAuditRecordCRCValid>
</LockEventAuditRecord>
<LockEventAuditRecord>
  <EventType>ENV_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
  <EventDate/>
  <PreviousDate/>
  <LogonUser1ID/>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName/>

```

```

<LockMode/>
<RouteName/>
<CustomerID/>
<ATMSerialNumber/>
<Region/>
<SerialNumber>501107</SerialNumber>
<BankBranchName/>
<BankUserID>0</BankUserID>
<BankBranchID>0</BankBranchID>
<GroupName/>
<Description>501107 Lock Event: Reset Alarm - Silent alarm found 'ON' from last
'Open'</Description>
<auditPK>8f4d4e2b-bd43-40f8-9ec4-14c633a94c9c</auditPK>
<User1Key/>
<User2Key/>
<LogonKey/>
<LockTransactionCategory>0</LockTransactionCategory>
<LockTransactionType>0</LockTransactionType>
<LockTransactionEvent>4</LockTransactionEvent>
<LockCloseSeal/>
<LockFullSealCount>0</LockFullSealCount>
<IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
<IsLockDuressComboUsed>false</IsLockDuressComboUsed>
<IsLockCloseSealValid>false</IsLockCloseSealValid>
<LockAbbreviatedDeviceID/>
<LockOpenTime/>
<LockCloseTime/>
<IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
<LockAuditIndex>0</LockAuditIndex>
<DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
<ClientIPAddress/>
<LockIPAddress/>
<IsLockAuditRecordCRCValid>true</IsLockAuditRecordCRCValid>
</LockEventAuditRecord>
</RESPONSE_READ_LOCK_SA_KEY_AUDIT_DOWNLOAD>

```

Example 2 - Failure: Unknown key

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/read_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/read_key
```

Input Transaction: (HTTP Body)

```

<TRANSACTION_READ_USER_KEY>
  <IPAddress>10.108.6.102:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_READ_USER_KEY>

```

Output Transaction:

In this example, the user key does not exist in the database.

```

<RESPONSE_READ_USER_KEY>
  <TRANSACTION_READ_USER_KEY>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_USER_KEY>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_USER_NOT_FOUND</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>User key serial number being read was not found in database.</Description>
  </ResultRecord>
</RESPONSE_READ_USER_KEY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value

for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read lock SA key for audit download transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

lockActivateShelveEventField - Lock Activate Shelve Event Enumeration:

Value	Enumerated Value	Meaning
0	Activated	Mode is activated
1	Shelved	Mode is shelved
2	NeverActivated	Mode has never been activated
3	invalid	Value is not set and is invalid

originatingLockModeField - Originating Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM mode was opened to activate the specified lock mode for the record.
1	R	Route mode was opened to activate the specified lock mode for the record.
2	B	Bank mode was opened to activate the specified lock mode for the record.
3	FirstActiveMode	Mode was activated from the lock being in a shelved state (no modes active).
4	invalid	Value is not set and is invalid

Example 2 - Read Lock SA Key for Audit Download from Cencon Gen 2 lock using CenTran JSON endpoint.

This example reads a lock SA key for audit download through a remote keybox agent network connection:
10.108.6.103:53003

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/read_sa_key_audit_download
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CenTranServiceJSON/rest/lock/read_sa_key_audit_download
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : null ,
  "communicationsMethodField" : 0 ,
  "dispatcherIDField" : null ,
  "iPAddressField" : "10.108.6.103:53003"
}
```

Example Output Transaction - JSON:

```
{
  "keyInformationField" :
  {
    "canTypeField" :
    [
      12
    ] ,
    "keyIDField" :
    [
      0 ,
      0 ,

```

```

0 ,
13 ,
65 ,
227
]
},
"lockActivateShelveAuditRecordField" :
[
{
"abbreviatedCompanyIDField" : "63" ,
"abbreviatedDeviceIDField" : "441" ,
"activateShelveDateField" : "\/Date(1412361073000)\/" ,
"activateShelveKeyField" : null ,
"lockActivateShelveEventField" : 0 ,
"lockModeField" : 0 ,
"originatingLockModeField" : 1 ,
"serialNumberField" : "1158563" ,
"user1BankIDField" : null ,
"user1DateField" : "\/Date(4760614345000)\/" ,
"user1IDField" : "Route SHA Key 3" ,
"user1KeyField" :
{
"canTypeField" :
[
24
] ,
"keyIDField" :
[
0 ,
0 ,
0 ,
106 ,
114 ,
3
]
} ,
"user2BankIDField" : null ,
"user2DateField" : null ,
"user2IDField" : null ,
"user2KeyField" : null
} ,
{
"abbreviatedCompanyIDField" : "63" ,
"abbreviatedDeviceIDField" : "441" ,
"activateShelveDateField" : "\/Date(1414178992000)\/" ,
"activateShelveKeyField" :
{
"canTypeField" :
[
12
] ,
"keyIDField" :
[
0 ,
0 ,
0 ,
13 ,
65 ,
227
]
} ,
"lockActivateShelveEventField" : 0 ,
"lockModeField" : 1 ,
"originatingLockModeField" : 0 ,
"serialNumberField" : "1158563" ,
"user1BankIDField" : null ,
"user1DateField" : "\/Date(4762432663000)\/" ,
"user1IDField" : "FLM SHA Key 6" ,
"user1KeyField" :
{
"canTypeField" :
[
24
] ,
"keyIDField" :
[
0 ,
0 ,
0 ,
106 ,
184 ,
218
]
} ,
"user2BankIDField" : null ,
"user2DateField" : "\/Date(4762432659000)\/" ,
"user2IDField" : "FLM SHA Key 4" ,
"user2KeyField" :
{
"canTypeField" :
[

```

```

                24
            ],
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                113 ,
                172
            ]
        }
    },
    {
        "abbreviatedCompanyIDField" : "63" ,
        "abbreviatedDeviceIDField" : "441" ,
        "activateShelveDateField" : "\Date(1412365635000)\\" ,
        "activateShelveKeyField" : null ,
        "lockActivateShelveEventField" : 0 ,
        "lockModeField" : 2 ,
        "originatingLockModeField" : 3 ,
        "serialNumberField" : "1158563" ,
        "user1BankIDField" : null ,
        "user1DateField" : null ,
        "user1IDField" : null ,
        "user1KeyField" : null ,
        "user2BankIDField" : null ,
        "user2DateField" : null ,
        "user2IDField" : null ,
        "user2KeyField" : null
    }
],
"lockEventAuditRecordField" :
[
    {
        "aTMSerialNumberField" : "" ,
        "auditPKField" : "ca42773d-5878-47f0-81e8-3d69198f92bf" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "001158563 Lock Event: Audit Download" ,
        "eventDateField" : "\Date(1414179304000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : null ,
        "lockNameField" : "" ,
        "lockOpenTimeField" : "\Date(1414179304000)\\" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "5" ,
        "lockTransactionTypeField" : "64" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" :
        {
            "canTypeField" :
            [
                12
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                13 ,
                65 ,
                227
            ]
        }
    } ,
    "user2IDField" : "" ,

```

```

        "user2KeyField" : null
    },
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "64e022af-8f0e-4757-a706-99b2aec546a8" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\Date(1414179097000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "4977" ,
        "lockCloseTimeField" : "\Date(1414179097000)\\" ,
        "lockFullSealCountField" : "2" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    }
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "83a7a351-3784-4f5f-8623-5e4f19f731a9" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\Date(1414179072000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "2" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\Date(1414179072000)\\" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "Route SHA Key 3" ,
        "user1KeyField" :
    }

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        "canTypeField" :
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            24
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            106 ,
            114 ,
            3
        ]
    } ,
    "user2IDField" : "" ,
    "user2KeyField" : null
} ,
{
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    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Close Lock ( User: FLM SHA Key 4
) " ,
    "eventDateField" : "\\Date(1414179023000)\" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : true ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : "1163" ,
    "lockCloseTimeField" : "\\Date(1414179023000)\" ,
    "lockFullSealCountField" : "5" ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 1 ,
    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : null ,
    "lockTransactionCategoryField" : "0" ,
    "lockTransactionEventField" : "2" ,
    "lockTransactionTypeField" : "16" ,
    "logonKeyField" : null ,
    "logonUser1IDField" : "" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001158563" ,
    "user1IDField" : "FLM SHA Key 4" ,
    "user1KeyField" :
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            24
        ] ,
        "keyIDField" :
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            0 ,
            0 ,
            0 ,
            106 ,
            113 ,
            172
        ]
    } ,
    "user2IDField" : "" ,
    "user2KeyField" : null
} ,
{
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    "auditPKField" : "7316c670-080d-4614-bd25-d52ae1eec7d2" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Initialize a Route Lock mode" ,
    "eventDateField" : "\\Date(1414178992000)\" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,

```



```

        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : "441" ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
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        "lockOpenTimeField" : "\\Date(1414178992000)\" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "7" ,
        "lockTransactionTypeField" : "64" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" :
        {
            "canTypeField" :
            [
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            [
                0 ,
                0 ,
                0 ,
                13 ,
                65 ,
                227
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "atMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "e50b7540-2d87-4798-a7eb-0a46084adf94" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 6
    )" ,
        "eventDateField" : "\\Date(1414178967000)\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "5" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\\Date(1414178967000)\" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
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        "serialNumberField" : "001158563" ,
        "user1IDField" : "FLM SHA Key 6" ,
        "user1KeyField" :
        {
            "canTypeField" :
            [

```

```

                24
            ],
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                184 ,
                218
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "8de8cf6d-9052-477a-99ba-db8cdcb20923" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 4
    )" ,

        "eventDateField" : "\/Date(1414178963000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "5" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1414178963000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
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        "user1IDField" : "FLM SHA Key 4" ,
        "user1KeyField" :
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                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                113 ,
                172
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "99079e34-086b-4ed6-85c0-07186e388743" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched FLM Combination
To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1414178960000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,

```

```

        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1414178960000)\/" ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "auditPKField" : "04cc6b48-fbb2-48c4-9813-8b9464de7cf7" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Close Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\/Date(1414178039000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
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        "lockCloseTimeField" : "\/Date(1414178039000)\/" ,
        "lockFullSealCountField" : "9" ,
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        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "2" ,
        "lockTransactionTypeField" : "32" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "Route SHA Key 3" ,
        "user1KeyField" :
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            "canTypeField" :
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                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {

```

```

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"auditPKField" : "0fde0c06-a00e-434a-b50c-fb78a964f232" ,
"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Shelve a Route Lock mode" ,
"eventDateField" : "\/Date(1414178011000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : "441" ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "0" ,
"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
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"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "10" ,
"lockTransactionTypeField" : "64" ,
"logonKeyField" : null ,
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"logonUser3IDField" : "" ,
"previousDateField" : null ,
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"user1KeyField" :
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        12
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    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        13 ,
        65 ,
        227
    ]
} ,
"user2IDField" : "" ,
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} ,
{
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    "auditPKField" : "f6d18995-d66f-4bd5-a2ef-25e7648c67e0" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
    "eventDateField" : "\/Date(1414177920000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "9" ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : "\/Date(1414177920000)\/" ,
    "lockTransactionCategoryField" : "0" ,
    "lockTransactionEventField" : "1" ,
    "lockTransactionTypeField" : "32" ,

```

```

        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "Route SHA Key 3" ,
        "user1KeyField" :
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                24
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            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
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        "auditPKField" : "07d3eca4-4ac3-41d7-8704-83ad4c25941a" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "001158563 Lock Event: Sensor - unexpected bolt works retraction.
The bolt works sensor indicates open while the bolt is still extended." ,
        "eventDateField" : "\/Date(1414177911000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : true ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : null ,
        "lockNameField" : "" ,
        "lockOpenTimeField" : "\/Date(1414177911000)\/" ,
        "lockTransactionCategoryField" : "156" ,
        "lockTransactionEventField" : "5" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "696b5f10-8c8e-42d3-9900-8adbee47193e" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm FLM Mode Dispatched Call
Closed" ,
        "eventDateField" : "\/Date(1414177712000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,

```

```

        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "8418" ,
        "lockCloseTimeField" : "\/Date(1414177712000)\/" ,
        "lockFullSealCountField" : "4" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "5b8ee077-02ac-4e20-8ba0-76b9fdfa7dfe" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 6
    )" ,

        "eventDateField" : "\/Date(1414177682000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "4" ,
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        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "FLM SHA Key 6" ,
        "user1KeyField" :
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            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                184 ,
                218
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,

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"auditPKField" : "7eafcd3-b81d-4397-bade-4d645d259796" ,
"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FIM SHA Key 4
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"eventDateField" : "\/Date(1414177666000)\/" ,
"eventResultField" : "0" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "4" ,
"lockIPAddressField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lockOpenTimeField" : "\/Date(1414177666000)\/" ,
"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "1" ,
"lockTransactionTypeField" : "16" ,
"logonKeyField" : null ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "FIM SHA Key 4" ,
"user1KeyField" :
{
    "canTypeField" :
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        24
    ] ,
    "keyIDField" :
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        0 ,
        106 ,
        113 ,
        172
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
    "aTMSerialNumberField" : "ATM 1158563" ,
    "auditPKField" : "215e108b-9046-4770-a4f3-24b66420008b" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: FIM Mode Access Configuration
(Single\/Dual) Write" ,
    "eventDateField" : "\/Date(1414177589000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
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    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "0" ,
    "lockIPAddressField" : "" ,
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    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : "\/Date(1414177589000)\/" ,
    "lockTransactionCategoryField" : "159" ,
    "lockTransactionEventField" : "5" ,
    "lockTransactionTypeField" : "0" ,

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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
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        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "ddfeeaa3d-cc93-4f75-a125-1ee24b178588" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\/Date(1414177514000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "8228" ,
        "lockCloseTimeField" : "\/Date(1414177514000)\/" ,
        "lockFullSealCountField" : "8" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
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        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditPKField" : "b0e0f905-b936-4cd7-a761-8abfb6fdd168" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "001158563 Lock Event: Sensor - unexpected door open. The door
sensor indicates open while the bolt is still extended." ,
        "eventDateField" : "\/Date(1414177508000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : true ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : null ,
        "lockNameField" : "" ,
        "lockOpenTimeField" : "\/Date(1414177508000)\/" ,
        "lockTransactionCategoryField" : "156" ,
        "lockTransactionEventField" : "4" ,
        "lockTransactionTypeField" : "0"
    }

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```

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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
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        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "d0f3d794-0aa5-41c9-adbd-3bed0fd001f9" ,
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\Date(1414177241000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "8" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\Date(1414177241000)\\" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "Route SHA Key 3" ,
        "user1KeyField" :
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            "canTypeField" :
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                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\Date(1414177094000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
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```

```

        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "4340" ,
        "lockCloseTimeField" : "\Date(1414177094000)\/" ,
        "lockFullSealCountField" : "7" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "atMSerialNumberField" : "" ,
        "auditPKField" : "c88dbf84-cd65-4a28-b690-c7c6b26722bc" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "001158563 Lock Event: Sensor - unexpected bolt retraction. The bolt
was retracted possibly by not having been extended completely from the previous open." ,
        "eventDateField" : "\Date(1414177090000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : true ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
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        "lockNameField" : "" ,
        "lockOpenTimeField" : "\Date(1414177090000)\/" ,
        "lockTransactionCategoryField" : "156" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "atMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "2f56d1a1-30cb-4dc2-b3ae-82fe8a1dd4ea" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\Date(1414177065000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,

```

```

        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "7" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
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        "lockOpenTimeField" : "\/Date(1414177065000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "Route SHA Key 3" ,
        "user1KeyField" :
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            "canTypeField" :
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                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "3c5d8a53-14af-4ba6-ac03-b63374981d8e" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\/Date(1414177007000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "4228" ,
        "lockCloseTimeField" : "\/Date(1414177007000)\/" ,
        "lockFullSealCountField" : "6" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : null ,
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        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,

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```

"auditPKField" : "69f6cdfb-8696-4bd2-a3c8-5e8a18c8fc3a" ,
"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,

"eventDateField" : "\/Date(1414176979000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "6" ,
"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lockOpenTimeField" : "\/Date(1414176979000)\/" ,
"lockTransactionCategoryField" : "0" ,
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"lockTransactionTypeField" : "32" ,
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"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
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    "canTypeField" :
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        0 ,
        0 ,
        0 ,
        106 ,
        114 ,
        3
    ]
} ,
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"user2KeyField" : null
} ,
{
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    "auditPKField" : "218d65a5-6469-431f-aea7-461dfa76b885" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
    "eventDateField" : "\/Date(1414176976000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "0" ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : "\/Date(1414176976000)\/" ,
    "lockTransactionCategoryField" : "160" ,
    "lockTransactionEventField" : "15" ,
    "lockTransactionTypeField" : "0" ,

```

```

        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
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        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\Date(1414176575000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
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        "lockFullSealCountField" : "5" ,
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        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
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        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "ccc2d533-e66d-4b83-8d2d-089a9963e043" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\Date(1414176487000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "5" ,
        "lockIPAddressField" : "" ,
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        "lockOpenTimeField" : "\Date(1414176487000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,

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        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "user1KeyField" :
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            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "dc52c83e-92cd-494c-b25b-d96a1c08e0cf" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Clock Write" ,
        "eventDateField" : "\/Date(1413830759000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : "\/Date(1413830759000)\/" ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1413830948000)\/" ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "0" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditPKField" : "7b23714b-83c4-4c19-a6a4-6651d166fc2f" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "001158563 Lock Event: Audit Download" ,
        "eventDateField" : "\/Date(1413830917000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,

```



```

        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
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        "lockModeField" : null ,
        "lockNameField" : "" ,
        "lockOpenTimeField" : "\\Date(1413830917000)\\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "5" ,
        "lockTransactionTypeField" : "64" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
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            [
                12
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                13 ,
                177 ,
                24
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "87550882-ed5a-4655-aall-def31af315e3" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm FLM Mode Dispatched Call
Closed" ,
        "eventDateField" : "\\Date(1412614089000)\\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "0613" ,
        "lockCloseTimeField" : "\\Date(1412614089000)\\/" ,
        "lockFullSealCountField" : "3" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "afde2b59-7b5c-480f-87f6-72f883b4255e" ,
        "bankBranchIDField" : "0" ,

```

```

"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 6
) " ,

"eventDateField" : "\Date(1412613314000)\\" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "3" ,
"lockIPAddressField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lockOpenTimeField" : "\Date(1412613314000)\\" ,
"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "1" ,
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"logonUserIDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
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"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "FLM SHA Key 6" ,
"user1KeyField" :
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        24
    ] ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        184 ,
        218
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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    "auditPKField" : "a4853218-16ad-4d2b-9d72-09269ad6a9f5" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched FLM Combination
To Lock and Prompt For User Key (IPI)" ,
    "eventDateField" : "\Date(1412613310000)\\" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "0" ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 1 ,
    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : "\Date(1412613310000)\\" ,
    "lockTransactionCategoryField" : "159" ,
    "lockTransactionEventField" : "15" ,
    "lockTransactionTypeField" : "0" ,
    "logonKeyField" : null ,
    "logonUserIDField" : "" ,

```

```

        "loginUser2IDField" : "" ,
        "loginUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm FLM Mode Dispatched Call
Closed" ,
        "eventDateField" : "\/Date(1412612908000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "6335" ,
        "lockCloseTimeField" : "\/Date(1412612908000)\/" ,
        "lockFullSealCountField" : "2" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
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        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "loginKeyField" : null ,
        "loginUser1IDField" : "" ,
        "loginUser2IDField" : "" ,
        "loginUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "2ffe20e7-cf30-4394-a3ae-21129b1ddb5f" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 6
)" ,
        "eventDateField" : "\/Date(1412610014000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "2" ,
        "lockIPAddressField" : "" ,
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        "lockNameField" : "Gen2 Swingbolt 1158563" ,
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        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
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```

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"loginUser3IDField" : "" ,
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        24
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    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        184 ,
        218
    ]
} ,
"user2IDField" : "" ,
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} ,
{
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    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched FLM Combination
To Lock and Prompt For User Key (IPI)" ,
    "eventDateField" : "\/Date(1412610011000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
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    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
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    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "0" ,
    "lockIPAddressField" : "" ,
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    "loginUser2IDField" : "" ,
    "loginUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
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    "user1IDField" : "" ,
    "user1KeyField" : null ,
    "user2IDField" : "" ,
    "user2KeyField" : null
} ,
{
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    "auditPKField" : "67f0d7d3-eb0a-4912-9ecd-434803ed3dbf" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
    "eventDateField" : "\/Date(1412609750000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : true ,
    "isLockDuressComboUsedField" : false ,

```

```

        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "6374" ,
        "lockCloseTimeField" : "\/Date(1412609750000)\/" ,
        "lockFullSealCountField" : "4" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\/Date(1412609593000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "4" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1412609593000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "Route SHA Key 3" ,
        "user1KeyField" :
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            "canTypeField" :
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                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "b3c10c45-0bad-4a27-939e-91defbc023c1" ,
        "bankBranchIDField" : "0" ,

```

```

        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412609586000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
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        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1412609586000)\/" ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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        "bankBranchIDField" : "1234" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Bank Mode Time Zone DST Table
Write" ,
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        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1412366265000)\/" ,
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        "lockTransactionEventField" : "3" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchIDField" : "1234" ,

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"clientIPAddressField" : "" ,
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"isLockClockBatteryIsLowField" : false ,
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"bankUserIDField" : "0" ,
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Write" ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
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{
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Write" ,
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"user2KeyField" : null
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{
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"bankBranchNameField" : "North Bank Branch" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
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Write" ,
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"user2IDField" : "" ,
"user2KeyField" : null
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"bankBranchIDField" : "1234" ,
"bankBranchNameField" : "North Bank Branch" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockCloseSealField" : null ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
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"user1KeyField" : null ,
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"user2KeyField" : null
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"clientIPAddressField" : "" ,
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"eventTypeField" : "ENV_LOCK_EVENT" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
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"logonUser3IDField" : "" ,
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"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
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"bankBranchIDField" : "1234" ,
"bankBranchNameField" : "North Bank Branch" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,

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"logonUser3IDField" : "" ,
"previousDateField" : null ,
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"routeNameField" : "" ,
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"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
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"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
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"isLockClockBatteryIsLowField" : false ,
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"isLockDuressComboUsedField" : false ,
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"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
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"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
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Write" ,

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"isLockCloseSealValidField" : false,
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"user2IDField" : "",
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"isLockClockBatteryIsLowField" : false,
"isLockCloseSealValidField" : false,
"isLockDuressComboUsedField" : false,
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"lockAbbreviatedDeviceIDField" : null,
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"user2KeyField" : null
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"databaseLockAuditIndexField" : "0",
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"isLockDuressComboUsedField" : false ,
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"lockTransactionCategoryField" : "159" ,
"lockTransactionEventField" : "0" ,
"lockTransactionTypeField" : "0" ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
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"routeNameField" : "" ,
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"user1IDField" : "" ,
"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
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{
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"auditPKField" : "dad890e7-4120-420e-baee-0148fea0da39" ,
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"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
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        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
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        "user2KeyField" : null
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        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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3 )" ,
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        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseTimeField" : null ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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            [
                0 ,
                0 ,
                0 ,
                106 ,
                114 ,
                3
            ]
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        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412360647000)\/" ,
        "eventResultField" : "0" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
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        "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
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        "isLockClockBatteryIsLowField" : false ,
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        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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Combination To Lock and Prompt For User Key (IPI)" ,
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        "isLockClockBatteryIsLowField" : false ,
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        "previousDateField" : null ,
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        "isLockClockBatteryIsLowField" : false ,
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        "isLockDuressComboUsedField" : false ,
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"clientIPAddressField" : "" ,
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"user2IDField" : "" ,
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"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
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Call Closed" ,
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"isLockCloseSealValidField" : true ,
"isLockDuressComboUsedField" : false ,
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4 )" ,

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"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockAuditIndexField" : "0" ,
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"logonUser3IDField" : "" ,
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        205
    ]
} ,
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} ,
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    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,

    "eventDateField" : "\/Date(1412352138000)\/" ,
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    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
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    "lockOpenTimeField" : "\/Date(1412352138000)\/" ,
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                3
            ]
        } ,
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
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        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
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        "user2IDField" : "" ,
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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Call Closed" ,
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```

```

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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
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        "user2IDField" : "" ,
        "user2KeyField" : null
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "logonUser3IDField" : "" ,
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                112 ,
                205
            ]
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"clientIPAddressField" : "" ,
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"lockCloseTimeField" : null ,
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        114 ,
        3
    ]
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    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
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    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
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    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
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    "lockIPAddressField" : "" ,
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    "lockOpenTimeField" : "\/Date(1412352039000)\/" ,
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```

```

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        "customerIDField" : "North Bank" ,
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Call Closed" ,
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        "eventResultField" : "0" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseTimeField" : "\/Date(1412281696000)\/" ,
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        "lockTransactionTypeField" : "0" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
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        "bankUserIDField" : "0" ,
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4 )" ,
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        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
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```

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        112 ,
        205
    ]
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    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
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3 )" ,
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    "loginUser2IDField" : "" ,
    "loginUser3IDField" : "" ,
    "previousDateField" : null ,
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            114 ,
            3
        ]
    }
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```

```

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        "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
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        "isPossibleLockErrorOrIntrusionField" : false ,
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        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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        "bankBranchNameField" : "" ,
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        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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Call Closed" ,
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        "eventResultField" : "0" ,
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        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "728469c3-f232-461c-b4ed-c9044caec02f" ,

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"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
4 )" ,

"eventDateField" : "\/Date(1412280561000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "41" ,
"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lockOpenTimeField" : "\/Date(1412280561000)\/" ,
"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "1" ,
"lockTransactionTypeField" : "32" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "Route SHA Key 4" ,
"user1KeyField" :
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    "canTypeField" :
    [
        24
    ] ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        112 ,
        205
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
    "aTMSerialNumberField" : "ATM 1158563" ,
    "auditPKField" : "0576e0a3-ca2c-4a91-ac19-684978cedd47" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,

    "eventDateField" : "\/Date(1412280557000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "41" ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : "\/Date(1412280557000)\/" ,
    "lockTransactionCategoryField" : "0" ,
    "lockTransactionEventField" : "1" ,
    "lockTransactionTypeField" : "32" ,
    "logonKeyField" : null ,

```

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"loginUser1IDField" : "" ,
"loginUser2IDField" : "" ,
"loginUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "Route SHA Key 3" ,
"user1KeyField" :
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    "canTypeField" :
    [
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        0 ,
        0 ,
        0 ,
        106 ,
        114 ,
        3
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
    "aTMSerialNumberField" : "ATM 1158563" ,
    "auditPKField" : "8f5947db-2a2f-4750-b66b-605faeda87ab" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
    "eventDateField" : "\/Date(1412280553000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "0" ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : "\/Date(1412280553000)\/" ,
    "lockTransactionCategoryField" : "160" ,
    "lockTransactionEventField" : "15" ,
    "lockTransactionTypeField" : "0" ,
    "loginKeyField" : null ,
    "loginUser1IDField" : "" ,
    "loginUser2IDField" : "" ,
    "loginUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001158563" ,
    "user1IDField" : "" ,
    "user1KeyField" : null ,
    "user2IDField" : "" ,
    "user2KeyField" : null
} ,
{
    "aTMSerialNumberField" : "ATM 1158563" ,
    "auditPKField" : "904be6ef-1fa0-4474-9fff-0947aa66cbf6" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Route Mode Access Configuration
(Single\Dual) Write" ,
    "eventDateField" : "\/Date(1412280435000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,

```

```

        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\Date(1412280435000)\/" ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "5" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "0912a6c2-8909-4d5c-8c3e-73576363e1f2" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\Date(1412280408000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "2097" ,
        "lockCloseTimeField" : "\Date(1412280408000)\/" ,
        "lockFullSealCountField" : "40" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
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        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
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        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "dcafe776-a9f4-41dd-a811-cf393a737c39" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\Date(1412280329000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,

```



```

        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "40" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\Date(1412280329000)\\" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "Route SHA Key 3" ,
        "user1KeyField" :
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            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "fcf45408-963d-4924-abf6-ab2f1b2699de" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\Date(1412280326000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\Date(1412280326000)\\" ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "3caaecb8-5e5a-42c6-9e02-8eaac0b55314" ,

```

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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Route Mode Access Configuration
(Single\Dual) Write" ,
        "eventDateField" : "\/Date(1412279485000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1412279485000)\/" ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "5" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "a04f5d26-4e02-4326-a043-52b8d44205fd" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: FLM Mode Access Configuration
(Single\Dual) Write" ,
        "eventDateField" : "\/Date(1412279460000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1412279460000)\/" ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "5" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "a50ec95c-6b4c-46d9-ab55-134b75c2ceb" ,

```

```

"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm FLM Mode Dispatched Call
Closed" ,

"eventDateField" : "\Date(1412279432000)\\" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : true ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : "6012" ,
"lockCloseTimeField" : "\Date(1412279432000)\\" ,
"lockFullSealCountField" : "14" ,
"lockIPAddressField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lockOpenTimeField" : null ,
"lockTransactionCategoryField" : "159" ,
"lockTransactionEventField" : "6" ,
"lockTransactionTypeField" : "0" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "" ,
"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
"atmSerialNumberField" : "ATM 1158563" ,
"auditPKField" : "4f70766b-702f-4482-bea1-e6c167f0c89d" ,
"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 6
)" ,

"eventDateField" : "\Date(1412279402000)\\" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "14" ,
"lockIPAddressField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lockOpenTimeField" : "\Date(1412279402000)\\" ,
"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "1" ,
"lockTransactionTypeField" : "16" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "FLM SHA Key 6" ,
"user1KeyField" :
{
"canTypeField" :
[
24
] ,
"keyIDField" :

```

```

        [
            0 ,
            0 ,
            0 ,
            106 ,
            184 ,
            218
        ]
    } ,
    "user2IDField" : "" ,
    "user2KeyField" : null
} ,
{
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    "auditPKField" : "8b985234-ae13-430a-92e1-494df389cc43" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 3
)" ,
    "eventDateField" : "\/Date(1412279397000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "14" ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 1 ,
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    "lockOpenTimeField" : "\/Date(1412279397000)\/" ,
    "lockTransactionCategoryField" : "0" ,
    "lockTransactionEventField" : "1" ,
    "lockTransactionTypeField" : "16" ,
    "logonKeyField" : null ,
    "logonUser1IDField" : "" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001158563" ,
    "user1IDField" : "FLM SHA Key 3" ,
    "user1KeyField" :
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        "canTypeField" :
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            24
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            61 ,
            100 ,
            186
        ]
    } ,
    "user2IDField" : "" ,
    "user2KeyField" : null
} ,
{
    "aTMSerialNumberField" : "ATM 1158563" ,
    "auditPKField" : "650c29bc-bble-498f-9f8a-e2d11fb24dee" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched FLM Combination
To Lock and Prompt For User Key (IPI)" ,
    "eventDateField" : "\/Date(1412279395000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,

```

```

        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
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        "lockIPAddressField" : "" ,
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        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\Date(1412279395000)\\" ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "6e325d33-8258-4afc-afa8-cb8c2ce1585c" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: FLM Mode Access Configuration
(Single\Dual) Write" ,
        "eventDateField" : "\Date(1412278637000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "75192bf6-e2d6-43fd-919c-6525949f6e5c" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm FLM Mode Dispatched Call
Closed" ,
        "eventDateField" : "\Date(1412278618000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,

```

```

        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
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        "lockCloseSealField" : "6387" ,
        "lockCloseTimeField" : "\/Date(1412278618000)\/" ,
        "lockFullSealCountField" : "13" ,
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        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "1bd25d7c-102e-4a03-a421-57a0a805553e" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 6
    )" ,
        "eventDateField" : "\/Date(1412278575000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "13" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1412278575000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "FLM SHA Key 6" ,
        "user1KeyField" :
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                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                184 ,
                218
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "cd1d395f-fell-4aef-a879-a9da92ae5ea8" ,

```

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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412278571000)\/" ,
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        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
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        "lockIPAddressField" : "" ,
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        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "8892c0de-3eb8-47a3-a8e9-a658ecb6dce3" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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Call Closed" ,
        "eventDateField" : "\/Date(1412110265000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "9655" ,
        "lockCloseTimeField" : "\/Date(1412110265000)\/" ,
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        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "6e3cdd34-56c7-467f-83fd-57d99216ca05" ,

```



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"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
4 )" ,

"eventDateField" : "\/Date(1412110242000)\/" ,
"eventResultField" : "0" ,
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"groupNameField" : "" ,
"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
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"lockTransactionTypeField" : "32" ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
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"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "Route SHA Key 4" ,
"user1KeyField" :
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    [
        24
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    "keyIDField" :
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        0 ,
        0 ,
        106 ,
        112 ,
        205
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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    "auditPKField" : "147b574c-d31a-4652-a8b7-fca663bc9b28" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,

    "eventDateField" : "\/Date(1412110238000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "39" ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : "\/Date(1412110238000)\/" ,
    "lockTransactionCategoryField" : "0" ,
    "lockTransactionEventField" : "1" ,
    "lockTransactionTypeField" : "32" ,
    "logonKeyField" : null ,

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        "logonUser3IDField" : "" ,
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        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
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        "user1KeyField" :
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            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "5302fdf7-7589-43b3-b737-7f6c1c84aca4" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\Date(1412110234000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\Date(1412110234000)\\" ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm FLM Mode Dispatched Call
Closed" ,
        "eventDateField" : "\Date(1412110126000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,

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        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
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        "lockCloseSealField" : "9371" ,
        "lockCloseTimeField" : "\/Date(1412110126000)\/" ,
        "lockFullSealCountField" : "12" ,
        "lockIPAddressField" : "" ,
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        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "d5490afc-9526-4996-b3d7-8c1d90d60694" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 6
    )" ,
        "eventDateField" : "\/Date(1412110096000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "12" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1412110096000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "FLM SHA Key 6" ,
        "user1KeyField" :
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                24
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            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                184 ,
                218
            ]
        } ,
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        "user2KeyField" : null
    } ,
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        "auditPKField" : "57f2dfal-9b1a-461c-9a12-c763c00a7e85" ,

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        "bankBranchIDField" : "0" ,
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched FLM Combination
To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412110093000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseTimeField" : null ,
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        "lockOpenTimeField" : "\/Date(1412110093000)\/" ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "541293e0-e02c-4dcc-a269-4ad71638ale7" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\/Date(1412109380000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "0946" ,
        "lockCloseTimeField" : "\/Date(1412109380000)\/" ,
        "lockFullSealCountField" : "37" ,
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        "lockModeField" : 2 ,
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        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "7e9e0655-9d27-4afc-ba91-78b1bb8948f0" ,

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"bankBranchIDField" : "0" ,
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"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
4 )" ,

"eventDateField" : "\/Date(1412109195000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "37" ,
"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
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"lockOpenTimeField" : "\/Date(1412109195000)\/" ,
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"lockTransactionEventField" : "1" ,
"lockTransactionTypeField" : "32" ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "Route SHA Key 4" ,
"user1KeyField" :
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    "canTypeField" :
    [
        24
    ] ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        112 ,
        205
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
    "aTMSerialNumberField" : "ATM 1158563" ,
    "auditPKField" : "54cec987-abed-4e96-a394-43826973a59f" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,

    "eventDateField" : "\/Date(1412109189000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "37" ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : "\/Date(1412109189000)\/" ,
    "lockTransactionCategoryField" : "0" ,
    "lockTransactionEventField" : "1" ,
    "lockTransactionTypeField" : "32" ,
    "logonKeyField" : null ,

```

```

"loginUser1IDField" : "" ,
"loginUser2IDField" : "" ,
"loginUser3IDField" : "" ,
"previousDateField" : null ,
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"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "Route SHA Key 3" ,
"user1KeyField" :
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    "canTypeField" :
    [
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        0 ,
        0 ,
        0 ,
        106 ,
        114 ,
        3
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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    "auditPKField" : "99324c35-9585-4abf-ba6a-50542bbce9e1" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
    "eventDateField" : "\/Date(1412109186000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "0" ,
    "lockIPAddressField" : "" ,
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    "lockOpenTimeField" : "\/Date(1412109186000)\/" ,
    "lockTransactionCategoryField" : "160" ,
    "lockTransactionEventField" : "15" ,
    "lockTransactionTypeField" : "0" ,
    "loginKeyField" : null ,
    "loginUser1IDField" : "" ,
    "loginUser2IDField" : "" ,
    "loginUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001158563" ,
    "user1IDField" : "" ,
    "user1KeyField" : null ,
    "user2IDField" : "" ,
    "user2KeyField" : null
} ,
{
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    "auditPKField" : "dd486910-cb9d-4b98-a5f1-b6d86b2d3fb7" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
    "eventDateField" : "\/Date(1412108731000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,

```

```

        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1412108731000)\/" ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "ad3943d3-07af-4a56-930a-cfa04bd649f7" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412105474000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1412105474000)\/" ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "a0b9785d-8287-40fe-92e6-f00c8eaa2038" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\/Date(1412105402000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,

```



```

        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
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        "lockCloseSealField" : "0791" ,
        "lockCloseTimeField" : "\/Date(1412105402000)\/" ,
        "lockFullSealCountField" : "36" ,
        "lockIPAddressField" : "" ,
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        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "542477fc-50cf-44a6-af2e-7c52a5d53fc4" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
4 )" ,
        "eventDateField" : "\/Date(1412105375000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "36" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1412105375000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "Route SHA Key 4" ,
        "user1KeyField" :
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            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                112 ,
                205
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "19892509-36f3-47db-b456-bc3bc8efb3da" ,

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"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,

"eventDateField" : "\/Date(1412105369000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "36" ,
"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
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"lockOpenTimeField" : "\/Date(1412105369000)\/" ,
"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "1" ,
"lockTransactionTypeField" : "32" ,
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"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "Route SHA Key 3" ,
"user1KeyField" :
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    [
        24
    ] ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        114 ,
        3
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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    "auditPKField" : "1f91ad35-c28b-481d-833a-0dcc5e538b7a" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (PI)" ,
    "eventDateField" : "\/Date(1412105364000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
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    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "0" ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : "\/Date(1412105364000)\/" ,
    "lockTransactionCategoryField" : "160" ,
    "lockTransactionEventField" : "15" ,
    "lockTransactionTypeField" : "0" ,
    "logonKeyField" : null ,

```

```

        "logonUser1IDField" : "" ,
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        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "cadbf9ef-e400-4e01-94f7-0e0d0d312064" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm FLM Mode Dispatched Call
Closed" ,

        "eventDateField" : "\/Date(1412105233000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "9188" ,
        "lockCloseTimeField" : "\/Date(1412105233000)\/" ,
        "lockFullSealCountField" : "11" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "3cb3c0d1-c044-49d4-a9d5-f01a6fe4b880" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 6
)" ,

        "eventDateField" : "\/Date(1412105197000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "11" ,
        "lockIPAddressField" : "" ,
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        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1412105197000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
        "logonKeyField" : null ,

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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "FLM SHA Key 6" ,
        "user1KeyField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                184 ,
                218
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "b370c1d3-2d69-45ba-af4c-2eacebb15b93" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched FLM Combination
To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\Date(1412105190000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
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        "lockOpenTimeField" : "\Date(1412105190000)\/" ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "61181ebc-5868-4633-9989-7f24bd3b64e7" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched FLM Combination
To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\Date(1412105033000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,

```

```

        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
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        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "da2aa41a-5a55-41f1-a9a1-f38b18696d55" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\Date(1412100682000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "6656" ,
        "lockCloseTimeField" : "\Date(1412100682000)\/" ,
        "lockFullSealCountField" : "35" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
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        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "3a068888-6a5c-41cf-a0a7-944d72152700" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
4 )" ,
        "eventDateField" : "\Date(1412100551000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,

```

```

        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "35" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
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        "lockOpenTimeField" : "\Date(1412100551000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "Route SHA Key 4" ,
        "user1KeyField" :
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            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                112 ,
                205
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "8b923c61-8054-47e2-8841-006e95fa9cdb" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\Date(1412100545000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "35" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\Date(1412100545000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "Route SHA Key 3" ,
        "user1KeyField" :
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            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :

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```

        [
            0 ,
            0 ,
            0 ,
            106 ,
            114 ,
            3
        ]
    } ,
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    "user2KeyField" : null
} ,
{
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    "auditPKField" : "a05a0eb7-2e3a-4e63-9e62-c292676ff405" ,
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    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
    "eventDateField" : "\/Date(1412100540000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "0" ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 2 ,
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    "lockOpenTimeField" : "\/Date(1412100540000)\/" ,
    "lockTransactionCategoryField" : "160" ,
    "lockTransactionEventField" : "15" ,
    "lockTransactionTypeField" : "0" ,
    "logonKeyField" : null ,
    "logonUser1IDField" : "" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
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    "serialNumberField" : "001158563" ,
    "user1IDField" : "" ,
    "user1KeyField" : null ,
    "user2IDField" : "" ,
    "user2KeyField" : null
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{
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    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
    "eventDateField" : "\/Date(1412100514000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
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    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
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    "lockCloseSealField" : null ,
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    "lockTransactionCategoryField" : "160" ,
    "lockTransactionEventField" : "15" ,
    "lockTransactionTypeField" : "0" ,
    "logonKeyField" : null ,

```



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        "logonUser3IDField" : "" ,
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        "routeNameField" : "" ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "b5ad98c2-9d5a-4623-84c6-39b68791a711" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412100486000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
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        "lockNameField" : "Gen2 Swingbolt 1158563" ,
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        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412100200000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
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        "lockIPAddressField" : "" ,
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        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
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```

```

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        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "routeNameField" : "" ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\/Date(1412100183000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "9132" ,
        "lockCloseTimeField" : "\/Date(1412100183000)\/" ,
        "lockFullSealCountField" : "34" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "a05f8a5d-b9f1-469e-a6c9-b64f16428fc6" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
4 )" ,
        "eventDateField" : "\/Date(1412100013000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "34" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1412100013000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
        "logonKeyField" : null ,

```

```

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"loginUser2IDField" : "" ,
"loginUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "Route SHA Key 4" ,
"user1KeyField" :
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        0 ,
        0 ,
        0 ,
        106 ,
        112 ,
        205
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
    "eventDateField" : "\/Date(1412100009000)\/" ,
    "eventResultField" : "0" ,
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    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : "\/Date(1412100009000)\/" ,
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    "lockTransactionTypeField" : "32" ,
    "loginKeyField" : null ,
    "loginUser1IDField" : "" ,
    "loginUser2IDField" : "" ,
    "loginUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001158563" ,
    "user1IDField" : "Route SHA Key 3" ,
    "user1KeyField" :
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        "canTypeField" :
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            24
        ] ,
        "keyIDField" :
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            0 ,
            0 ,
            0 ,
            106 ,
            114 ,
            3
        ]
    } ,
    "user2IDField" : "" ,
    "user2KeyField" : null
} ,
{
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    "auditPKField" : "8d632bbb-f62c-489f-ba19-67b6645f9d18" ,
    "bankBranchIDField" : "0" ,

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        "clientIPAddressField" : "" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412100005000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "routeNameField" : "" ,
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        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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Call Closed" ,
        "eventDateField" : "\/Date(1412099967000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockFullSealCountField" : "32" ,
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        "lockTransactionTypeField" : "0" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
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        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchIDField" : "0" ,

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"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
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4 )" ,

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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
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    "keyIDField" :
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        0 ,
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        0 ,
        106 ,
        112 ,
        205
    ]
} ,
"user2IDField" : "" ,
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} ,
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    "auditPKField" : "1f03bala-db54-4c3f-84d9-7e76090a0b07" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,

"eventDateField" : "\/Date(1412099935000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "32" ,
"lockIPAddressField" : "" ,
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"lockTransactionCategoryField" : "0" ,
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"lockTransactionTypeField" : "32" ,
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"logonUserIDField" : "" ,

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            ] ,
            "keyIDField" :
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                0 ,
                0 ,
                106 ,
                114 ,
                3
            ]
        } ,
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        "user2KeyField" : null
    } ,
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
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        "eventResultField" : "0" ,
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        "isLockClockBatteryIsLowField" : false ,
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        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseTimeField" : null ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
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        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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Call Closed" ,
        "eventDateField" : "\/Date(1412099922000)\/" ,
        "eventResultField" : "0" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
    }
}

```

```

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        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
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        "user1KeyField" : null ,
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        "user2KeyField" : null
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        "bankBranchNameField" : "" ,
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        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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4 )" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
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        "lockCloseSealField" : null ,
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        "lockTransactionTypeField" : "32" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
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        "user1KeyField" :
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            "keyIDField" :
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                106 ,
                112 ,
                205
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
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        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "e491b781-6500-47f3-99da-69f4bd0e3a23" ,
        "bankBranchIDField" : "0" ,

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"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,

"eventDateField" : "\/Date(1412099888000)\/" ,
"eventResultField" : "0" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
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"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
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    "keyIDField" :
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        106 ,
        114 ,
        3
    ]
} ,
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} ,
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    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
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    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
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    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
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    "lockTransactionEventField" : "15" ,
    "lockTransactionTypeField" : "0" ,
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```

```

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        "loginUser3IDField" : "" ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "843b0976-cbe4-442c-b01d-73f103bd5d2f" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\/Date(1412099870000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
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        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
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        "loginUser1IDField" : "" ,
        "loginUser2IDField" : "" ,
        "loginUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
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        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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4 )" ,
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        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
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        0 ,
        0 ,
        106 ,
        112 ,
        205
    ]
} ,
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"user2KeyField" : null
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    "auditPKField" : "6d244704-ec0a-45de-be7e-e0e9b3d48ab9" ,
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    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
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3 )" ,
    "eventDateField" : "\/Date(1412099816000)\/" ,
    "eventResultField" : "0" ,
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    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
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    "lockCloseTimeField" : null ,
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    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : "\/Date(1412099816000)\/" ,
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    "lockTransactionEventField" : "1" ,
    "lockTransactionTypeField" : "32" ,
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    "loginUser2IDField" : "" ,
    "loginUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
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    "serialNumberField" : "001158563" ,
    "user1IDField" : "Route SHA Key 3" ,
    "user1KeyField" :
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        "canTypeField" :
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            24
        ] ,
        "keyIDField" :
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            0 ,
            0 ,
            106 ,
            114 ,
            3
        ]
    }
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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    "auditPKField" : "2ae05465-47b6-4335-a384-6b093ed148fb" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,

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        "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412099812000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
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        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
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        "lockOpenTimeField" : "\/Date(1412099812000)\/" ,
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        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
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        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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(Single\/Dual) Write" ,
        "eventDateField" : "\/Date(1412098838000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
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        "lockModeField" : 2 ,
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        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
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        "user1IDField" : "" ,
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        "user2KeyField" : null
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        "bankBranchNameField" : "" ,

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Call Closed" ,
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"eventResultField" : "0" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : true ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockCloseTimeField" : "\Date(1412098735000)\/" ,
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"lockModeField" : 2 ,
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"lockTransactionEventField" : "6" ,
"lockTransactionTypeField" : "0" ,
"logonKeyField" : null ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
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"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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"clientIPAddressField" : "" ,
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3 )" ,
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"eventResultField" : "0" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
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"lockAuditIndexField" : "0" ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
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"routeNameField" : "" ,
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] ,
"keyIDField" :
[
0 ,

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```

        0 ,
        0 ,
        106 ,
        114 ,
        3
    ]
},
"user2IDField" : "" ,
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},
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    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
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    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
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    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
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    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
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    "user1KeyField" : null ,
    "user2IDField" : "" ,
    "user2KeyField" : null
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{
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    "auditPKField" : "45c6bc45-60df-4451-a4a0-47d9d5988c2d" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
    "eventDateField" : "\/Date(1412098669000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
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    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : true ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
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    "lockCloseTimeField" : "\/Date(1412098669000)\/" ,
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    "logonUser1IDField" : "" ,
    "logonUser2IDField" : ""
}

```

```

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        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\/Date(1412098563000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseTimeField" : null ,
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        "lockOpenTimeField" : "\/Date(1412098563000)\/" ,
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        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
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            "keyIDField" :
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                114 ,
                3
            ]
        } ,
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        "user2KeyField" : null
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412098562000)\/" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,

```



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        "lockTransactionTypeField" : "0" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "de44874d-b7a0-4ce3-8107-2b223a492de0" ,
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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Call Closed" ,
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        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
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        "lockCloseTimeField" : "\/Date(1412093733000)\/" ,
        "lockFullSealCountField" : "25" ,
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        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\/Date(1412093645000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,

```

```

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        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
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        "user1KeyField" :
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            "keyIDField" :
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                0 ,
                106 ,
                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
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        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "0e38d83a-e45d-4613-806b-ab6fd9ef31c0" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412093644000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
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        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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Call Closed" ,
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"eventResultField" : "0" ,
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"groupNameField" : "" ,
"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : true ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
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"lockFullSealCountField" : "24" ,
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"logonUser3IDField" : "" ,
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"routeNameField" : "" ,
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"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
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"logonUser3IDField" : "" ,
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24
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"keyIDField" :
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0 ,

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106 ,
114 ,
3
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Combination To Lock and Prompt For User Key (IPI)" ,
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"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
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"user2IDField" : "" ,
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{
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"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
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Call Closed" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : true ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockTransactionEventField" : "6" ,
"lockTransactionTypeField" : "0" ,
"logonKeyField" : null ,
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"logonUser2IDField" : ""
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        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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3 )" ,
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        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
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        "lockCloseSealField" : null ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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            "keyIDField" :
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                114 ,
                3
            ]
        } ,
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        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
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        "isLockCloseSealValidField" : false ,
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        "lockTransactionTypeField" : "0" ,
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        "logonUser2IDField" : "" ,
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        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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Call Closed" ,
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        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockAuditIndexField" : "0" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "user2IDField" : "" ,
        "user2KeyField" : null
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
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        "eventResultField" : "0" ,
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        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
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        "user1KeyField" :
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            "keyIDField" :
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                114 ,
                3
            ]
        } ,
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        "user2KeyField" : null
    } ,
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        "auditPKField" : "8ba52c3e-5400-46d7-a55e-54alb0c74ead" ,
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412092749000)\/" ,
        "eventResultField" : "0" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
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        "lockTransactionTypeField" : "0" ,
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        "logonUser3IDField" : "" ,
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        "user2IDField" : "" ,
        "user2KeyField" : null
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        "bankBranchNameField" : "" ,

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"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
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Call Closed" ,
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"eventResultField" : "0" ,
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"groupNameField" : "" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : true ,
"isLockDuressComboUsedField" : false ,
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"lockTransactionTypeField" : "0" ,
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"logonUser3IDField" : "" ,
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"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
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3 )" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "20" ,
"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
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"lockOpenTimeField" : "\Date(1412092524000)\\" ,
"lockTransactionCategoryField" : "0" ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
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"canTypeField" :
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24
] ,
"keyIDField" :
[
0 ,

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```

0 ,
0 ,
106 ,
114 ,
3
]
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Combination To Lock and Prompt For User Key (IPI)" ,
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    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
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    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
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    "user2KeyField" : null
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    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
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Call Closed" ,
    "eventDateField" : "\/Date(1412092464000)\/" ,
    "eventResultField" : "0" ,
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    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : true ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
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    "lockCloseSealField" : "1035" ,
    "lockCloseTimeField" : "\/Date(1412092464000)\/" ,
    "lockFullSealCountField" : "19" ,
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    "lockOpenTimeField" : null ,
    "lockTransactionCategoryField" : "160" ,
    "lockTransactionEventField" : "6" ,
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    "logonKeyField" : null ,
    "logonUser1IDField" : "" ,
    "logonUser2IDField" : ""
}

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        "routeNameField" : "" ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "3bd68184-b351-4379-b91f-df46adf83ae3" ,
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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3 )" ,
        "eventDateField" : "\/Date(1412092415000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
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        "loginUser2IDField" : "" ,
        "loginUser3IDField" : "" ,
        "previousDateField" : null ,
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                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
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        "user2KeyField" : null
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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Call Closed" ,
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        "isLockDuressComboUsedField" : false ,
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        "lockCloseTimeField" : "\/Date(1412091467000)\/" ,
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        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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3 )" ,
        "eventDateField" : "\/Date(1412091402000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
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        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
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        "user1KeyField" :
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            ] ,
            "keyIDField" :
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                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "auditPKField" : "fbcf7e29-2800-4e84-86a8-88621d2b041f" ,
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
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        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
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        "lockTransactionEventField" : "15" ,
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        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "serialNumberField" : "001158563" ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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        "bankBranchNameField" : "" ,

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"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
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Call Closed" ,
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"eventResultField" : "0" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : true ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockCloseSealField" : "3533" ,
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"lockTransactionEventField" : "6" ,
"lockTransactionTypeField" : "0" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
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"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
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"eventResultField" : "0" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
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"lockAuditIndexField" : "0" ,
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"lockTransactionEventField" : "1" ,
"lockTransactionTypeField" : "32" ,
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"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
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24
] ,
"keyIDField" :
[
0 ,

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```

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        106 ,
        114 ,
        3
    ]
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} ,
{
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    "auditPKField" : "f02e2094-9605-41c3-88b5-69348a701329" ,
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    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
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    "isLockDuressComboUsedField" : false ,
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    "lockCloseTimeField" : null ,
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    "user1KeyField" : null ,
    "user2IDField" : "" ,
    "user2KeyField" : null
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{
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    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
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Call Closed" ,
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    "eventResultField" : "0" ,
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    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : true ,
    "isLockDuressComboUsedField" : false ,
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    "lockCloseTimeField" : "\/Date(1412090558000)\/" ,
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    "logonUser1IDField" : "" ,
    "logonUser2IDField" : ""
}

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        "user2IDField" : "" ,
        "user2KeyField" : null
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\/Date(1412090309000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
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        "lockOpenTimeField" : "\/Date(1412090309000)\/" ,
        "lockTransactionCategoryField" : "0" ,
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        "logonUser2IDField" : "" ,
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                114 ,
                3
            ]
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1412090309000)\/" ,
        "eventResultField" : "0" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
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        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\Date(1412088463000)\\" ,
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        "customerIDField" : "North Bank" ,
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Call Closed" ,
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        "isLockCloseSealValidField" : true ,
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3 )" ,
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        "isLockDuressComboUsedField" : false ,
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        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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        "isLockDuressComboUsedField" : false ,
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```

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        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
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184 ,
218 ,
]
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"bankUserIDField" : "0" ,
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"customerIDField" : "North Bank" ,
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To Lock and Prompt For User Key (IPI)" ,
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"eventResultField" : "0" ,
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"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
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Key 6 )" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : true ,
"isLockDuressComboUsedField" : false ,
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```

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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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Call Closed" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
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        "logonUser3IDField" : "" ,
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        "routeNameField" : "" ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
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        "user2KeyField" : null
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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4 )" ,
        "eventDateField" : "\\Date(1411674237000)\" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
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3 )" ,
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    "isLockDuressComboUsedField" : false ,
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            0 ,

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        0 ,
        0 ,
        106 ,
        114 ,
        3
    ]
    } ,
    "user2IDField" : "" ,
    "user2KeyField" : null
} ,
{
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    "auditPKField" : "56df51bf-e3d2-4604-a311-df9023b1687b" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Close Lock ( User: FLM SHA Key 6
) " ,
    "eventDateField" : "\\Date(1411674068000)\\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
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    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : true ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
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    "lockCloseTimeField" : "\\Date(1411674068000)\\/" ,
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    "lockTransactionCategoryField" : "0" ,
    "lockTransactionEventField" : "2" ,
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    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001158563" ,
    "user1IDField" : "FLM SHA Key 6" ,
    "user1KeyField" :
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        ] ,
        "keyIDField" :
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            0 ,
            0 ,
            106 ,
            184 ,
            218
        ]
    } ,
    "user2IDField" : "" ,
    "user2KeyField" : null
} ,
{
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    "auditPKField" : "ffca81d7-92b9-4593-a7e5-352d6ba32c39" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "001158563 Lock Event: Sensor - unexpected door open. The door
sensor indicates open while the bolt is still extended." ,
    "eventDateField" : "\\Date(1411674063000)\\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
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        "lockFullSealCountField" : "0" ,
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        "lockModeField" : null ,
        "lockNameField" : "" ,
        "lockOpenTimeField" : "\/Date(1411674063000)\/" ,
        "lockTransactionCategoryField" : "156" ,
        "lockTransactionEventField" : "4" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "routeNameField" : "" ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "1a7b2fd1-310f-413a-a2b5-6669967d0a13" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FILM SHA Key 6
    )" ,

        "eventDateField" : "\/Date(1411673959000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "8" ,
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        "lockOpenTimeField" : "\/Date(1411673959000)\/" ,
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        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
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        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "routeNameField" : "" ,
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            ] ,
            "keyIDField" :
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                184 ,
                218
            ]
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        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,

```

```

        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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(Single\Dual) Write" ,
        "eventDateField" : "\Date(1411671484000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
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        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\Date(1411671484000)\/" ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "5" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
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        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\Date(1411671437000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
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        "lockCloseTimeField" : "\Date(1411671437000)\/" ,
        "lockFullSealCountField" : "7" ,
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        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "user2KeyField" : null
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    {
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        "auditPKField" : "731ddce3-3216-4b12-89ef-89200b9ed301" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,

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        "customerIDField" : "" ,
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sensor indicates open while the bolt is still extended." ,
        "eventDateField" : "\Date(1411671431000)\\" ,
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        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : true ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : null ,
        "lockNameField" : "" ,
        "lockOpenTimeField" : "\Date(1411671431000)\\" ,
        "lockTransactionCategoryField" : "156" ,
        "lockTransactionEventField" : "4" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "9dcbcd3-8b98-4f2e-a4df-a8d137517050" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
4 )" ,
        "eventDateField" : "\Date(1411670616000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "7" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\Date(1411670616000)\\" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
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                24
            ] ,
            "keyIDField" :
            [
                0 ,

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0 ,
0 ,
106 ,
112 ,
205 ,
]
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"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
"eventDateField" : "\Date(1411670602000)\\" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "7" ,
"lockIPAddressField" : "" ,
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"lockOpenTimeField" : "\Date(1411670602000)\\" ,
"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "1" ,
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"logonUser3IDField" : "" ,
"previousDateField" : null ,
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24
] ,
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114 ,
3
]
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{
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"auditPKField" : "fccd4125-1274-4b06-bd54-7dd1d55d3f01" ,
"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
"eventDateField" : "\Date(1411670403000)\\" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : true ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,

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```

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        "lockOpenTimeField" : null ,
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        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "auditPKField" : "4297d894-cdbf-43d2-8b27-943ec0e46aaf" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
4 )" ,
        "eventDateField" : "\/Date(1411669394000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "6" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1411669394000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        } ,
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        "user2KeyField" : null
    } ,
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        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchNameField" : "" ,

```



```

"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,

"eventDateField" : "\/Date(1411669378000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
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"lockFullSealCountField" : "6" ,
"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lockOpenTimeField" : "\/Date(1411669378000)\/" ,
"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "1" ,
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"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
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        24
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    "keyIDField" :
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        0 ,
        0 ,
        0 ,
        106 ,
        114 ,
        3
    ]
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} ,
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    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
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Call Closed" ,

"eventDateField" : "\/Date(1411669034000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : true ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : "5820" ,
"lockCloseTimeField" : "\/Date(1411669034000)\/" ,
"lockFullSealCountField" : "5" ,
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"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,

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        "routeNameField" : "" ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "8bd99e62-8784-4f7b-817d-fe78a8253e12" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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4 )" ,
        "eventDateField" : "\/Date(1411669001000)\/" ,
        "eventResultField" : "0" ,
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        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
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        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1411669001000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "Route SHA Key 4" ,
        "user1KeyField" :
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                24
            ] ,
            "keyIDField" :
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                0 ,
                0 ,
                0 ,
                106 ,
                112 ,
                205
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "e9dfd37a-ccb7-4c0b-aff6-0f635c96f473" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\/Date(1411668995000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,

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        "lockCloseSealField" : null ,
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        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "Route SHA Key 3" ,
        "user1KeyField" :
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                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "99e97e63-a21c-4f27-8023-a2fba6efd66f" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\\Date(1411668990000)\\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\\Date(1411668990000)\\/" ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
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        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "74f5467c-3086-471b-bac9-0048b3df8ee5" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,

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"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Route Mode Access Configuration
(Single\Dual) Write" ,
"eventDateField" : "\Date(1411667668000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
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"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "0" ,
"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lockOpenTimeField" : "\Date(1411667668000)\/" ,
"lockTransactionCategoryField" : "160" ,
"lockTransactionEventField" : "5" ,
"lockTransactionTypeField" : "0" ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
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"routeNameField" : "" ,
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"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
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{
"atMSerialNumberField" : "ATM 1158563" ,
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"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
"eventDateField" : "\Date(1411667620000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : true ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
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"lockCloseTimeField" : "\Date(1411667620000)\/" ,
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"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
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"lockOpenTimeField" : null ,
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"lockTransactionEventField" : "6" ,
"lockTransactionTypeField" : "0" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "" ,
"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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"auditPKField" : "0972c359-23a7-4a10-8d1d-07c90ae694d0" ,
"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,

```

```

"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,

"eventDateField" : "\/Date(1411667560000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "4" ,
"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lockOpenTimeField" : "\/Date(1411667560000)\/" ,
"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "1" ,
"lockTransactionTypeField" : "32" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "Route SHA Key 3" ,
"user1KeyField" :
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    "canTypeField" :
    [
        24
    ] ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        114 ,
        3
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
    "eventDateField" : "\/Date(1411667556000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockAuditRecordCRCValidField" : true ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
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    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "0" ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lockOpenTimeField" : "\/Date(1411667556000)\/" ,
    "lockTransactionCategoryField" : "160" ,
    "lockTransactionEventField" : "15" ,
    "lockTransactionTypeField" : "0" ,
    "logonKeyField" : null ,
    "logonUser1IDField" : "" ,
    "logonUser2IDField" : "" ,

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```

        "loginUser3IDField" : "" ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "218cf2f6-flee-4ce3-b7f5-37f82222ee2c" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\/Date(1411653713000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "2170" ,
        "lockCloseTimeField" : "\/Date(1411653713000)\/" ,
        "lockFullSealCountField" : "3" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
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        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
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        "loginUser1IDField" : "" ,
        "loginUser2IDField" : "" ,
        "loginUser3IDField" : "" ,
        "previousDateField" : null ,
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        "serialNumberField" : "001158563" ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\/Date(1411590758000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "3" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
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        "lockOpenTimeField" : "\/Date(1411590758000)\/" ,
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        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
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        "loginUser1IDField" : "" ,
        "loginUser2IDField" : ""
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```

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            "keyIDField" :
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                0 ,
                0 ,
                106 ,
                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "auditPKField" : "9d8b78d2-ee64-4134-a442-294aec817e13" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched Route
Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1411590754000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
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        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1411590754000)\/" ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
        "eventDateField" : "\/Date(1411590604000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,

```



```

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        "lockCloseSealField" : "6640" ,
        "lockCloseTimeField" : "\/Date(1411590604000)\/" ,
        "lockFullSealCountField" : "2" ,
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        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: Route SHA Key
3 )" ,
        "eventDateField" : "\/Date(1411590578000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "2" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : "\/Date(1411590578000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
        "logonKeyField" : null ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
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        "user1KeyField" :
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            ] ,
            "keyIDField" :
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                114 ,
                3
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
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        "atMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "787278b2-dc5e-4ed4-99cd-0ba68757cae0" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,

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        "databaseLockAuditIndexField" : "0" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1411590575000)\/" ,
        "eventResultField" : "0" ,
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        "isLockDuressComboUsedField" : false ,
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        "lockTransactionEventField" : "15" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "serialNumberField" : "001158563" ,
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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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Combination To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\/Date(1411590532000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
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        "auditPKField" : "c175eca3-5856-4fde-a078-6d0564a31fe9" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,

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        "bankUserIDField" : "0" ,
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        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm FLM Mode Dispatched Call
Closed" ,

        "eventDateField" : "\Date(1411582229000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "9803" ,
        "lockCloseTimeField" : "\Date(1411582229000)\\" ,
        "lockFullSealCountField" : "7" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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    {

        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 3
)" ,

        "eventDateField" : "\Date(1411582086000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "7" ,
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        "lockModeField" : 1 ,
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        "lockOpenTimeField" : "\Date(1411582086000)\\" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
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        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "user1KeyField" :
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        ] ,
        "keyIDField" :
        [
            0 ,

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        0 ,
        61 ,
        100 ,
        186
    ]
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} ,
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    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
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) " ,
    "eventDateField" : "\/Date(1411582080000)\/" ,
    "eventResultField" : "0" ,
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    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
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    "logonUser3IDField" : "" ,
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            184 ,
            218
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    "user2KeyField" : null
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To Lock and Prompt For User Key (IPI)" ,
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    "groupNameField" : "" ,
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    "isLockCloseSealValidField" : false ,
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        "lockTransactionTypeField" : "0" ,
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        "user2IDField" : "" ,
        "user2KeyField" : null
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        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm FLM Mode Dispatched Call
Closed" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : "9350" ,
        "lockCloseTimeField" : "\/Date(1411581891000)\/" ,
        "lockFullSealCountField" : "6" ,
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        "lockTransactionEventField" : "6" ,
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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)" ,
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                100 ,
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
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    "lockAuditIndexField" : "0" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "6" ,
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    "lockTransactionEventField" : "1" ,
    "lockTransactionTypeField" : "16" ,
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    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
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106 ,
184 ,
218 ,
]
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"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
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To Lock and Prompt For User Key (IPI)" ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
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"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
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{
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"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
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Closed" ,
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"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
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"isLockCloseSealValidField" : true ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockAuditIndexField" : "0" ,
"lockCloseSealField" : "7190" ,
"lockCloseTimeField" : "\/Date(1411577810000)\/" ,
"lockFullSealCountField" : "5" ,
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"lockTransactionTypeField" : "0" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,

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        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 3
    )" ,

        "eventDateField" : "\/Date(1411570931000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
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        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
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            ] ,
            "keyIDField" :
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                0 ,
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                100 ,
                186
            ]
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        "user2KeyField" : null
    } ,
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        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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    )" ,

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        "isLockCloseSealValidField" : false ,
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        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
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            "keyIDField" :
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        } ,
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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To Lock and Prompt For User Key (IPI)" ,
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        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
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        "logonUser3IDField" : "" ,
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        "user2KeyField" : null
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(Single\Dual) Write" ,
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        "isLockDuressComboUsedField" : false ,
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        "user2IDField" : "" ,
        "user2KeyField" : null
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        218
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    "customerIDField" : "North Bank" ,
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To Lock and Prompt For User Key (IPI)" ,
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    "isLockDuressComboUsedField" : false ,
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    "lockTransactionTypeField" : "0" ,
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    "logonUser2IDField" : "" ,

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        "user2KeyField" : null
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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To Lock and Prompt For User Key (IPI)" ,
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        "isLockDuressComboUsedField" : false ,
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        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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Closed" ,
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        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
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        "clientIPAddressField" : "" ,
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    )" ,

        "eventDateField" : "\/Date(1411567490000)\/" ,
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        "isLockDuressComboUsedField" : false ,
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        "lockCloseTimeField" : null ,
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        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
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        "logonUser3IDField" : "" ,
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                184 ,
                218
            ]
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        "bankBranchNameField" : "" ,
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        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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To Lock and Prompt For User Key (IPI)" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
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        "lockTransactionTypeField" : "0" ,
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        "bankBranchNameField" : "" ,
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        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
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To Lock and Prompt For User Key (IPI)" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
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        "logonUser2IDField" : "" ,
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        "bankBranchNameField" : "" ,
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        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
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To Lock and Prompt For User Key (IPI)" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,

```



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        "lockCloseTimeField" : null ,
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        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "auditPKField" : "e3c1771d-b603-4199-8f2e-75105cd06226" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched FLM Combination
To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\Date(1411504322000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
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        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
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    {
        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched FLM Combination
To Lock and Prompt For User Key (IPI)" ,
        "eventDateField" : "\Date(1411504133000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,

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        "lockTransactionTypeField" : "0" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Input Dispatched FLM Combination
To Lock and Prompt For User (IPI)" ,
        "eventDateField" : "\Date(1411503745000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : "" ,
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        "lockNameField" : "Gen2 Swingbolt 1158563" ,
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        "lockTransactionEventField" : "15" ,
        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
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        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
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        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Confirm FLM Mode Dispatched Call
Closed" ,
        "eventDateField" : "\Date(1411498141000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,

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        "lockCloseSealField" : "0375" ,
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        "lockFullSealCountField" : "2" ,
        "lockIPAddressField" : "" ,
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        "lockTransactionCategoryField" : "159" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
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        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
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        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Open Lock ( User: FLM SHA Key 6
    )" ,

        "eventDateField" : "\/Date(1411498057000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
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        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "2" ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
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        "lockOpenTimeField" : "\/Date(1411498057000)\/" ,
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        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
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        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
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        "user1KeyField" :
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            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                184 ,
                218
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
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        "aTMSerialNumberField" : "" ,
        "auditPKField" : "a222b3a1-44d6-4d58-a1bd-c46ac88942c8" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,

```

```

"bankUserIDField" : "0" ,
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"customerIDField" : "" ,
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"descriptionField" : "001158563 Lock Event: Bolt extended in Factory\Shelved mode" ,
"eventDateField" : "\Date(1411497966000)\\" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "0" ,
"lockIPAddressField" : "" ,
"lockModeField" : null ,
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"lockTransactionCategoryField" : "144" ,
"lockTransactionEventField" : "8" ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
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"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "" ,
"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
"aTMSerialNumberField" : "ATM 1158563" ,
"auditPKField" : "dc2e1478-f3a2-4e93-bb08-59e9ad3272f9" ,
"bankBranchIDField" : "1234" ,
"bankBranchNameField" : "North Bank Branch" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Bank Mode Time Zone DST Table
Write" ,
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"eventResultField" : "0" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
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"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
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"user2IDField" : "" ,
"user2KeyField" : null
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{
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"auditPKField" : "5048cf2a-1c63-44f1-a5c1-213752f0676e" ,
"bankBranchIDField" : "1234" ,
"bankBranchNameField" : "North Bank Branch" ,
"bankUserIDField" : "0" ,

```

```

"clientIPAddressField" : "" ,
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"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Clock Write" ,
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"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockCloseSealField" : null ,
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"lockTransactionTypeField" : "0" ,
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"logonUser3IDField" : "" ,
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"user1IDField" : "" ,
"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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"bankBranchIDField" : "1234" ,
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"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Bank Mode Users Added" ,
"eventDateField" : "\/Date(1411492100000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
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"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "" ,
"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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"auditPKField" : "7b52aa9e-d7df-44a8-8971-3bfd579ae281" ,
"bankBranchIDField" : "1234" ,
"bankBranchNameField" : "North Bank Branch" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,

```

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        "databaseLockAuditIndexField" : "0" ,
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        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
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        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
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        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
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        "lockIPAddressField" : "" ,
        "lockModeField" : 3 ,
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        "lockOpenTimeField" : "\Date(1411492096000)\\" ,
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        "lockTransactionEventField" : "9" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "5de76e0f-33e5-4cb6-8873-8b925e6f8100" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Route Mode Time Zone DST Table
Write" ,
        "eventDateField" : "\Date(1411492005000)\\" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockAuditRecordCRCValidField" : true ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "0" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
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        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "3" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001158563" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "ATM 1158563" ,
        "auditPKField" : "a71e8320-e49c-41d7-b267-57bdec6elfff9" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,

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"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Clock Write" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : "\/Date(1411492005000)\/" ,
"lockFullSealCountField" : "0" ,
"lockIPAddressField" : "" ,
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"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lockOpenTimeField" : "\/Date(1411492004000)\/" ,
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"lockTransactionTypeField" : "0" ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
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"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
"ATMSerialNumberField" : "ATM 1158563" ,
"auditPKField" : "b3b981b1-c6a3-4b2e-8869-9a129de223d7" ,
"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Activate Route Mode" ,
"eventDateField" : "\/Date(1411492003000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "0" ,
"lockIPAddressField" : "" ,
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"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lockOpenTimeField" : "\/Date(1411492003000)\/" ,
"lockTransactionCategoryField" : "157" ,
"lockTransactionEventField" : "8" ,
"lockTransactionTypeField" : "0" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "" ,
"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
"ATMSerialNumberField" : "ATM 1158563" ,
"auditPKField" : "84e01899-d1bf-4486-aad5-165df3ca107e" ,
"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: FLM Mode Time Zone DST Table
Write" ,

```



```

"eventDateField" : "\Date(1411491966000)\",
"eventResultField" : "0",
"eventTypeField" : "ENV_LOCK_EVENT",
"groupNameField" : "",
"isLockAuditRecordCRCValidField" : true,
"isLockClockBatteryIsLowField" : false,
"isLockCloseSealValidField" : false,
"isLockDuressComboUsedField" : false,
"isPossibleLockErrorOrIntrusionField" : false,
"lockAbbreviatedDeviceIDField" : null,
"lockAuditIndexField" : "0",
"lockCloseSealField" : null,
"lockCloseTimeField" : null,
"lockFullSealCountField" : "0",
"lockIPAddressField" : "",
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"lockOpenTimeField" : "\Date(1411491966000)\",
"lockTransactionCategoryField" : "159",
"lockTransactionEventField" : "3",
"lockTransactionTypeField" : "0",
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"logonUser2IDField" : "",
"logonUser3IDField" : "",
"previousDateField" : null,
"regionField" : "KENTUCKY",
"routeNameField" : "",
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"user1KeyField" : null,
"user2IDField" : "",
"user2KeyField" : null
},
{
"atMSerialNumberField" : "ATM 1158563",
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"bankBranchIDField" : "0",
"bankBranchNameField" : "",
"bankUserIDField" : "0",
"clientIPAddressField" : "",
"customerIDField" : "North Bank",
"databaseLockAuditIndexField" : "0",
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"eventDateField" : "\Date(1411491966000)\",
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"isLockCloseSealValidField" : false,
"isLockDuressComboUsedField" : false,
"isPossibleLockErrorOrIntrusionField" : false,
"lockAbbreviatedDeviceIDField" : null,
"lockAuditIndexField" : "0",
"lockCloseSealField" : null,
"lockCloseTimeField" : "\Date(1411491966000)\",
"lockFullSealCountField" : "0",
"lockIPAddressField" : "",
"lockModeField" : 1,
"lockNameField" : "Gen2 Swingbolt 1158563",
"lockOpenTimeField" : "\Date(1411491966000)\",
"lockTransactionCategoryField" : "159",
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"lockTransactionTypeField" : "0",
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"logonUser2IDField" : "",
"logonUser3IDField" : "",
"previousDateField" : null,
"regionField" : "KENTUCKY",
"routeNameField" : "",
"serialNumberField" : "001158563",
"user1IDField" : "",
"user1KeyField" : null,
"user2IDField" : "",
"user2KeyField" : null
},
{
"atMSerialNumberField" : "ATM 1158563",
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"bankBranchIDField" : "0",
"bankBranchNameField" : "",
"bankUserIDField" : "0",
"clientIPAddressField" : "",
"customerIDField" : "North Bank",
"databaseLockAuditIndexField" : "0",
"descriptionField" : "Gen2 Swingbolt 1158563 Lock Event: Activate FIM Mode",
"eventDateField" : "\Date(1411491965000)\",
"eventResultField" : "0",

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"eventTypeField" : "ENV_LOCK_EVENT" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "0" ,
"lockIPAddressField" : "" ,
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"lockOpenTimeField" : "\Date(1411491965000)\\" ,
"lockTransactionCategoryField" : "157" ,
"lockTransactionEventField" : "7" ,
"lockTransactionTypeField" : "0" ,
"logonKeyField" : null ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
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"routeNameField" : "" ,
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"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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"auditPKField" : "bb0345a0-d461-4c96-8cfb-f8adfafa2501" ,
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"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "001158563 Lock Event: Lock opened with Factory/Shelved Mode combo"
,
"eventDateField" : "\Date(1411491717000)\\" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
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"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "0" ,
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"lockModeField" : null ,
"lockNameField" : "" ,
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"lockTransactionCategoryField" : "144" ,
"lockTransactionEventField" : "1" ,
"lockTransactionTypeField" : "0" ,
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"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "" ,
"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
"aTMSerialNumberField" : "" ,
"auditPKField" : "4ff4b2ef-eld8-416a-afa8-1aa0d9701082" ,
"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "001158563 Lock Event: Sensor - unexpected bolt works retraction.
The bolt works sensor indicates open while the bolt is still extended." ,
"eventDateField" : "\Date(1411490893000)\\" ,
"eventResultField" : "0" ,

```

```

"eventTypeField" : "ENV_LOCK_EVENT" ,
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"isLockAuditRecordCRCValidField" : true ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : true ,
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"lockAuditIndexField" : "0" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "0" ,
"lockIPAddressField" : "" ,
"lockModeField" : null ,
"lockNameField" : "" ,
"lockOpenTimeField" : "\Date(1411490893000)\/" ,
"lockTransactionCategoryField" : "156" ,
"lockTransactionEventField" : "5" ,
"lockTransactionTypeField" : "0" ,
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"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "" ,
"routeNameField" : "" ,
"serialNumberField" : "001158563" ,
"user1IDField" : "" ,
"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
}
] ,
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{
"atmSerialNumberField" : "ATM 1158563" ,
"address1Field" : "749 W. Short St." ,
"address2Field" : "" ,
"auditCountField" : "5" ,
"bankBranchNameField" : "" ,
"bankModeUserNameArrayField" : null ,
"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "Lexington" ,
"closeSealLengthField" : "4" ,
"closeTime1Field" : "\Date(1414178993597)\/" ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "USA" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "965482" ,
"description1Field" : "Test Stand" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "MHG\LSTALL" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
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"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : true ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "58515" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "389951" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,

```

```

"keyCloseSealField" : "10497" ,
"lastUsedDateField" : "\Date(1414178993597)\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1414178879443)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1414177667447)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "76246" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "936326" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1414177595887)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "37936" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "37936" ,
"previousUser1ID1Field" : "FLM SHA Key 4" ,
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"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "FLM SHA Key 6" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
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"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "331" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "331" ,
"serialNumberField" : "001158563" ,
"serviceBranchField" : "North Bank Service" ,
"startDateField" : "\Date(1412360960797)\/" ,
"stateField" : "KY" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "FLM SHA Key 4" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "FLM SHA Key 6" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zipField" : "40508"
} ,
{
"aTMSerialNumberField" : "ATM 1158563" ,
"address1Field" : "749 W. Short St." ,
"address2Field" : "" ,
"auditCountField" : "2" ,
"bankBranchNameField" : "" ,
"bankModeUserNameArrayField" : null ,
"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "Lexington" ,
"closeSealLengthField" : "4" ,
"closeTime1Field" : "\Date(1414179052357)\/" ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "USA" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "801945" ,
"description1Field" : "Test Stand" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : ""
}

```

```

"dispatcherID1Field" : "MHG\\LSTALI" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
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"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "34616" ,
"lastUsedDateField" : "\/Date(1414179052357)\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1414178826153)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
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"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
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"previousRouteName3Field" : "" ,
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"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "34616" ,
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"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "22879" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "22879" ,
"serialNumberField" : "001158563" ,
"serviceBranchField" : "North Bank Service" ,
"startDateField" : "\/Date(1414178827297)\/" ,
"stateField" : "KY" ,
"timeZoneIDField" : "Eastern Standard Time" ,

```

```

"transferReturnCodeField" : "0" ,
"user1ID1Field" : "Route SHA Key 3" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zIPField" : "40508"
} ,
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"aTMSerialNumberField" : "ATM 1158563" ,
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    "BU02" ,
    "BU03" ,
    "BU04" ,
    "BU05" ,
    "BU06" ,
    "BU07" ,
    "BU000722" ,
    "BU000723" ,
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    "BU000762" ,
    "BU000763" ,
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    "BU000774" ,
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    "BU000776" ,
    "BU000777" ,
    "BU000778" ,
    "BU000779" ,
    "BU000780" ,
    "BU000781" ,
    "BU000782" ,
    "BU000783" ,

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        "BU000784" ,
        "BU000785" ,
        "BU000786" ,
        "BU000787"
    ] ,
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    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "0" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "809955" ,
    "description1Field" : "Test Stand" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : "" ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : false ,
    "ifForcedClosedField" : false ,
    "ifLastRoute1IssuedField" : false ,
    "ifLastRoute2IssuedField" : false ,
    "ifLastRoute3IssuedField" : false ,
    "ifLegacyImportField" : false ,
    "ifLockOpenField" : false ,
    "ifNoAlarmField" : false ,
    "ifPreviousRoute1IssuedField" : false ,
    "ifPreviousRoute2IssuedField" : false ,
    "ifPreviousRoute3IssuedField" : false ,
    "ifRoute1IssuedField" : false ,
    "ifRoute2IssuedField" : false ,
    "ifRoute3IssuedField" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifUnassignedOpenCallField" : false ,
    "issuedComboUser1Seq1Field" : "0" ,
    "issuedComboUser1Seq2Field" : "0" ,
    "issuedComboUser1Seq3Field" : "0" ,
    "issuedComboUser2Seq1Field" : "0" ,
    "issuedComboUser2Seq2Field" : "0" ,
    "issuedComboUser2Seq3Field" : "0" ,
    "keyCloseSealField" : "0" ,
    "lastUsedDateField" : null ,
    "lockActivationStatusField" : "gen2" ,
    "lockDispatchStatusField" : "" ,
    "lockHardwareModelField" : "" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1158563" ,
    "lowBatteryDateField" : null ,
    "networkAddressField" : "0.0.0.0" ,
    "networkPortField" : "0" ,
    "openTime1Field" : null ,
    "openTime2Field" : null ,
    "openTime3Field" : null ,
    "openTries1Field" : "0" ,
    "openTries2Field" : "0" ,
    "openTries3Field" : "0" ,
    "originalSerialNumberField" : "000000" ,
    "previousCloseTime1Field" : null ,
    "previousCloseTime2Field" : null ,
    "previousCloseTime3Field" : null ,
    "previousComboUser1Seq1Field" : "0" ,
    "previousComboUser1Seq2Field" : "0" ,
    "previousComboUser1Seq3Field" : "0" ,
    "previousComboUser2Seq1Field" : "0" ,
    "previousComboUser2Seq2Field" : "0" ,
    "previousComboUser2Seq3Field" : "0" ,
    "previousOpenTime1Field" : null ,
    "previousOpenTime2Field" : null ,
    "previousOpenTime3Field" : null ,
    "previousRouteName1Field" : "" ,
    "previousRouteName2Field" : "" ,
    "previousRouteName3Field" : "" ,
    "previousRouteSeal1Field" : "0" ,
    "previousRouteSeal2Field" : "0" ,
    "previousRouteSeal3Field" : "0" ,
    "previousSealField" : "0" ,
    "previousUser1IDField" : "" ,

```



```

        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "0" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "0" ,
        "serialNumberField" : "001158563" ,
        "serviceBranchField" : "North Bank Service" ,
        "startDateField" : "\/Date(1412365634507)\/" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : "40508"
    }
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "The key read audit information succeeded."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_READ_LOCK_SA_KEY_AUDIT_DOWNLOADField" :
{
    "communicationsIDField" : null ,
    "communicationsMethodField" : 0 ,
    "dispatcherIDField" : "CentranSS" ,
    "iPAddressField" : "10.108.6.103:53003"
}
}

```

3.2.27 Web Service Lock Transactions - Initialize Lock SA Key for Activating Multiple Locks

CenTran Programming Reference Manual

This transaction is used to initialize a lock SA key for activating multiple locks in the specified Cencon keybox.

Transaction information required:

- **Activate Lock Serial Record** - An Activate Lock Serial Record is required for each lock being activated using the lock SA key. The details of this record are described in section [3.10.4 Activate Lock Across Network](#). Each lock mode being activated will require an Activate Lock Serial Record. In the case of Bank mode, this record also has an array of each Bank mode user to add as part of the activation.
- **Lock Mode To Open** - Specifies what lock mode used to open the lock as part of the activation process. If multiple modes of a lock are being activated at the same time, one of those modes must be used to open the lock after activation. In the case of using FLM or Route mode to open the lock, the user or users to open the lock must be dispatched and given a combination. In the case of using Bank mode to open the lock, the user or users must be one added as part of activating Bank mode.

The specified lock mode to open must be one of the modes being activated for each lock serial number being activated.

- **User 1 ID To Dispatch** - Specifies what first user ID to dispatch to open the lock as part of the activation process. This is needed only if FLM or Route mode is specified to open the lock. It is not required if Bank mode was specified to open the lock for the activation process. This user ID will be dispatched for each lock serial number being activated. The user ID must be the same lock mode as the lock mode specified to open.
- **User 2 ID To Dispatch** - Specifies what second user ID to dispatch to open the lock as part of the activation process. If none of the lock modes to open being activated are specified to be dual access, then this second user ID is not needed. This is needed only if FLM or Route mode is specified to open the lock. It is not required if Bank mode was specified to open the lock for the activation process. This user ID will be dispatched for each lock serial number being activated that require dual access for the lock mode to open. The user ID must be the same lock mode as the lock mode specified to open.
- **IP Address and Port** - Specifies the keybox to connect to from CenTran to initialize the key.
- **Communications ID** - Specifies an alternate identification of a keybox to connect to from CenTran to initialize the key. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- **Communications Method** - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Note

The Cencon Gen 2 lock supports daylight savings time changes through the use of a time offset transition table. This table contains up to 40 entries, which is sufficient for 20 years of operation with two transitions a year. This table is initialized for each lock mode when the lock mode is activated. It is also updated when the time is updated on the lock.

The daylight savings time transition table for the Cencon Gen 2 lock is generated from the selected time zone, using daylight saving time information from the host computer. If the time zone ID is not specified when activating a lock, then the currently set time zone on the host computer is used.

The following is a table of available time zone IDs for the Windows operating system using English. Other language installations may make use of different language time zone IDs.

Windows Time Zone IDs:

UTC Offset	Time Zone ID
-12:00:00	Dateline Standard Time
-11:00:00	UTC-11
-10:00:00	Hawaiian Standard Time
-09:00:00	Alaskan Standard Time
-08:00:00	Pacific Standard Time (Mexico)
-08:00:00	Pacific Standard Time
-07:00:00	US Mountain Standard Time
-07:00:00	Mountain Standard Time (Mexico)
-07:00:00	Mountain Standard Time
-06:00:00	Central America Standard Time
-06:00:00	Central Standard Time
-06:00:00	Central Standard Time (Mexico)
-06:00:00	Canada Central Standard Time
-05:00:00	SA Pacific Standard Time
-05:00:00	Eastern Standard Time
-05:00:00	US Eastern Standard Time
-04:30:00	Venezuela Standard Time
-04:00:00	Paraguay Standard Time
-04:00:00	Atlantic Standard Time
-04:00:00	Central Brazilian Standard Time
-04:00:00	SA Western Standard Time
-04:00:00	Pacific SA Standard Time
-03:30:00	Newfoundland Standard Time
-03:00:00	E. South America Standard Time
-03:00:00	Argentina Standard Time
-03:00:00	SA Eastern Standard Time
-03:00:00	Greenland Standard Time
-03:00:00	Montevideo Standard Time

-03:00:00	Bahia Standard Time
-02:00:00	UTC-02
-02:00:00	Mid-Atlantic Standard Time
-01:00:00	Azores Standard Time
-01:00:00	Cape Verde Standard Time
00:00:00	Morocco Standard Time
00:00:00	UTC
00:00:00	GMT Standard Time
00:00:00	Greenwich Standard Time
01:00:00	W. Europe Standard Time
01:00:00	Central Europe Standard Time
01:00:00	Romance Standard Time
01:00:00	Central European Standard Time
01:00:00	W. Central Africa Standard Time
01:00:00	Namibia Standard Time
02:00:00	Jordan Standard Time
02:00:00	GTB Standard Time
02:00:00	Middle East Standard Time
02:00:00	Egypt Standard Time
02:00:00	Syria Standard Time
02:00:00	E. Europe Standard Time
02:00:00	South Africa Standard Time
02:00:00	FLE Standard Time
02:00:00	Turkey Standard Time
02:00:00	Israel Standard Time
02:00:00	Kaliningrad Standard Time
02:00:00	Libya Standard Time
03:00:00	Arabic Standard Time
03:00:00	Arab Standard Time
03:00:00	Belarus Standard Time
03:00:00	Russian Standard Time
03:00:00	E. Africa Standard Time
03:30:00	Iran Standard Time
04:00:00	Arabian Standard Time
04:00:00	Azerbaijan Standard Time
04:00:00	Russia Time Zone 3
04:00:00	Mauritius Standard Time
04:00:00	Georgian Standard Time
04:00:00	Caucasus Standard Time
04:30:00	Afghanistan Standard Time
05:00:00	West Asia Standard Time
05:00:00	Ekaterinburg Standard Time
05:00:00	Pakistan Standard Time
05:30:00	India Standard Time
05:30:00	Sri Lanka Standard Time
05:45:00	Nepal Standard Time
06:00:00	Central Asia Standard Time
06:00:00	Bangladesh Standard Time
06:00:00	N. Central Asia Standard Time
06:30:00	Myanmar Standard Time
07:00:00	SE Asia Standard Time
07:00:00	North Asia Standard Time
08:00:00	China Standard Time
08:00:00	North Asia East Standard Time
08:00:00	Singapore Standard Time
08:00:00	W. Australia Standard Time
08:00:00	Taipei Standard Time
08:00:00	Ulaanbaatar Standard Time
09:00:00	Tokyo Standard Time
09:00:00	Korea Standard Time
09:00:00	Yakutsk Standard Time
09:30:00	Cen. Australia Standard Time
09:30:00	AUS Central Standard Time
10:00:00	E. Australia Standard Time
10:00:00	AUS Eastern Standard Time
10:00:00	West Pacific Standard Time
10:00:00	Tasmania Standard Time
10:00:00	Magadan Standard Time
10:00:00	Vladivostok Standard Time
11:00:00	Russia Time Zone 10
11:00:00	Central Pacific Standard Time
12:00:00	Russia Time Zone 11
12:00:00	New Zealand Standard Time
12:00:00	UTC+12
12:00:00	Fiji Standard Time

12:00:00	Kamchatka Standard Time
13:00:00	Tonga Standard Time
13:00:00	Samoa Standard Time
14:00:00	Line Islands Standard Time

Transaction information returned:

Success:

- Input Transaction Record
- Result Record (result, error code and description): This contains an overall result for the entire transaction.
- Key Serial Number Information
- Array of Lock Record With Result: A lock record and result record for the activation of that lock record. The results of user(s) being dispatched to lock modes for the activation process are contained in the matching lock records.

Failure:

- Input Transaction Record
- Result Record (result, error code and description): This contains an overall result for the entire transaction. Some possible error codes that indicate errors with individual lock modes are:
 - RC_ERR_ACTIVATE_LOCK_DATA_CORRUPT
 - RC_ERR_ACTIVATE_LOCKS_ALL_PROCESSED_NONE_ACTIVATED
 - RC_ERR_ACTIVATE_LOCKS_SOME_NOT_ACTIVATED
- Key Serial Number Information (if any)
- Array of Lock Record With Result: A lock record and result record for the activation of that lock record. This array may or may not be returned depending on the nature of the error. If the error(s) is with individual lock modes, the error information for each lock mode will be returned with the associated result record.

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Note

Cencon bank mode limitations differ between Cencon Gen 1 locks and Cencon Gen 2 locks. The following table summarizes the differences between the lock versions:

Feature	Cencon Gen 1	Cencon Gen 2
Number of Users On Lock	1-32	1-100
Bank Mode User ID Limit Per Bank Branch	1-79	0-2147483647
Bank Branch ID Limit	1-9999	1-2147483647
Initial Combinations	Bank mode user keys always have an initial default combination of 50-25-50 .	Bank mode user keys have an initial combination as set by the Cencon software.
Combination Valid To Open Lock	Must change bank mode user key initial combination before opening the lock.	Requirement to change the bank mode user key initial combination before opening the lock is set per bank mode user by the Cencon software.
Feature	DS1427 Bank Key	DS1963S Bank Key
Cencon Gen 1	Supported	Not Supported
Cencon Gen 2	Supported	Supported
Security	Legacy Cencon Security	Enhanced Security and Hardware Authentication

Bank Mode User ID Limit Per Bank Branch	1-79	0-2147483647
Bank Branch ID Limit	1-9999	1-2147483647

Example 1 - Success

Input Transaction Format: (HTTP Post)

https://{host}/CentranService/rest/lock/init_sa_key_activate

Example Input Transaction: (HTTP Post)

https://kml-3242.domain.local/CentranService/rest/lock/init_sa_key_activate

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_INIT_LOCK_SA_KEY_ACTIVATE>
  <IPAddress/>
  <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
  <CommunicationsMethod>TcpClient</CommunicationsMethod>
  <LockModeToOpen>F</LockModeToOpen>
  <User1IDToDispatch>FLM SHA Key 5</User1IDToDispatch>
  <User2IDToDispatch>FLM SHA Key 6</User2IDToDispatch>
  <TimeZoneID>Eastern Standard Time</TimeZoneID>
  <ActivateLockSerialRecord>
    <Country>USA</Country>
    <ZIP>40508</ZIP>
    <State>KY</State>
    <City>Lexington</City>
    <Address2>Engineering</Address2>
    <Address1>749 W. Short St.</Address1>
    <ServiceBranch>North Bank Service</ServiceBranch>
    <Region>KENTUCKY</Region>
    <UserDefined4>My user data 4</UserDefined4>
    <UserDefined3>My user data 3</UserDefined3>
    <UserDefined2>My user data 2</UserDefined2>
    <UserDefined1>My user data 1</UserDefined1>
    <Description4>My description data 4</Description4>
    <Description3>My description data 3</Description3>
    <Description2>My description data 2</Description2>
    <Description1>My description data 1</Description1>
    <ATMSerialNumber>ATM 941088</ATMSerialNumber>
    <CustomerID>North Bank</CustomerID>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>941088</SerialNumber>
    <LockMode>F</LockMode>
    <LockName>Gen2 Deadbolt 941088</LockName>
  </ActivateLockSerialRecord>
  <ActivateLockSerialRecord>
    <Country>USA</Country>
    <ZIP>40508</ZIP>
    <State>KY</State>
    <City>Lexington</City>
    <Address2>Engineering</Address2>
    <Address1>749 W. Short St.</Address1>
    <ServiceBranch>North Bank Service</ServiceBranch>
    <Region>KENTUCKY</Region>
    <UserDefined4>My user data 4</UserDefined4>
    <UserDefined3>My user data 3</UserDefined3>
    <UserDefined2>My user data 2</UserDefined2>
    <UserDefined1>My user data 1</UserDefined1>
    <Description4>My description data 4</Description4>
    <Description3>My description data 3</Description3>
    <Description2>My description data 2</Description2>
    <Description1>My description data 1</Description1>
    <ATMSerialNumber>ATM 941088</ATMSerialNumber>
    <CustomerID>North Bank</CustomerID>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>941088</SerialNumber>
    <LockMode>R</LockMode>
    <LockName>Gen2 Deadbolt 941088</LockName>
  </ActivateLockSerialRecord>
  <ActivateLockSerialRecord>
    <BankOpenWindow>10</BankOpenWindow>
    <BankOpenDelay>1</BankOpenDelay>
    <BankModeUserNameArray>
      <UserID>Bank SHA Key 10001</UserID>
      <UserID>Bank SHA Key 10002</UserID>
      <UserID>Bank SHA Key 10003</UserID>
      <UserID>Bank SHA Key 10004</UserID>
      <UserID>BU03</UserID>
      <UserID>BU04</UserID>
      <UserID>BU06</UserID>
      <UserID>BU072 </UserID>
    </BankModeUserNameArray>
    <BankBranchName>North Bank Branch</BankBranchName>
    <Country>USA</Country>
```

```

<ZIP>40508</ZIP>
<State>KY</State>
<City>Lexington</City>
<Address2>Engineering</Address2>
<Address1>749 W. Short St.</Address1>
<ServiceBranch>North Bank Service</ServiceBranch>
<Region>KENTUCKY</Region>
<UserDefined4>My user data 4</UserDefined4>
<UserDefined3>My user data 3</UserDefined3>
<UserDefined2>My user data 2</UserDefined2>
<UserDefined1>My user data 1</UserDefined1>
<Description4>My description data 4</Description4>
<Description3>My description data 3</Description3>
<Description2>My description data 2</Description2>
<Description1>My description data 1</Description1>
<ATMSerialNumber>ATM 941088</ATMSerialNumber>
<CustomerID>North Bank</CustomerID>
<IfDualMode>>false</IfDualMode>
<SerialNumber>941088</SerialNumber>
<LockMode>B</LockMode>
<LockName>Gen2 Deadbolt 941088</LockName>
</ActivateLockSerialRecord>
<DispatcherID></DispatcherID>
</TRANSACTION_INIT_LOCK_SA_KEY_ACTIVATE>

```

Example Output Transaction:

```

<RESPONSE_INIT_LOCK_SA_KEY_ACTIVATE>
  <TRANSACTION_INIT_LOCK_SA_KEY_ACTIVATE>
    <IPAddress/>
    <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <LockModeToOpen>F</LockModeToOpen>
    <User1IDToDispatch>FLM SHA Key 5</User1IDToDispatch>
    <User2IDToDispatch>FLM SHA Key 6</User2IDToDispatch>
    <TimeZoneID>Eastern Standard Time</TimeZoneID>
    <ActivateLockSerialRecord>
      <Country>USA</Country>
      <ZIP>40508</ZIP>
      <State>KY</State>
      <City>Lexington</City>
      <Address2>Engineering</Address2>
      <Address1>749 W. Short St.</Address1>
      <ServiceBranch>North Bank Service</ServiceBranch>
      <Region>KENTUCKY</Region>
      <UserDefined4>My user data 4</UserDefined4>
      <UserDefined3>My user data 3</UserDefined3>
      <UserDefined2>My user data 2</UserDefined2>
      <UserDefined1>My user data 1</UserDefined1>
      <Description4>My description data 4</Description4>
      <Description3>My description data 3</Description3>
      <Description2>My description data 2</Description2>
      <Description1>My description data 1</Description1>
      <ATMSerialNumber>ATM 941088</ATMSerialNumber>
      <CustomerID>North Bank</CustomerID>
      <IfDualMode>>false</IfDualMode>
      <SerialNumber>941088</SerialNumber>
      <LockMode>F</LockMode>
      <LockName>Gen2 Deadbolt 941088</LockName>
    </ActivateLockSerialRecord>
    <ActivateLockSerialRecord>
      <Country>USA</Country>
      <ZIP>40508</ZIP>
      <State>KY</State>
      <City>Lexington</City>
      <Address2>Engineering</Address2>
      <Address1>749 W. Short St.</Address1>
      <ServiceBranch>North Bank Service</ServiceBranch>
      <Region>KENTUCKY</Region>
      <UserDefined4>My user data 4</UserDefined4>
      <UserDefined3>My user data 3</UserDefined3>
      <UserDefined2>My user data 2</UserDefined2>
      <UserDefined1>My user data 1</UserDefined1>
      <Description4>My description data 4</Description4>
      <Description3>My description data 3</Description3>
      <Description2>My description data 2</Description2>
      <Description1>My description data 1</Description1>
      <ATMSerialNumber>ATM 941088</ATMSerialNumber>
      <CustomerID>North Bank</CustomerID>
      <IfDualMode>>false</IfDualMode>
      <SerialNumber>941088</SerialNumber>
      <LockMode>R</LockMode>
      <LockName>Gen2 Deadbolt 941088</LockName>
    </ActivateLockSerialRecord>
    <ActivateLockSerialRecord>
      <BankOpenWindow>10</BankOpenWindow>
      <BankOpenDelay>1</BankOpenDelay>
      <BankModeUserNameArray>
        <UserID>Bank SHA Key 10001</UserID>
        <UserID>Bank SHA Key 10002</UserID>
        <UserID>Bank SHA Key 10003</UserID>
        <UserID>Bank SHA Key 10004</UserID>
        <UserID>BU03</UserID>
        <UserID>BU04</UserID>
      </BankModeUserNameArray>
    </ActivateLockSerialRecord>
  </TRANSACTION_INIT_LOCK_SA_KEY_ACTIVATE>

```

```

        <UserID>BU06</UserID>
        <UserID>BU072 </UserID>
    </BankModeUserNameArray>
    <BankBranchName>North Bank Branch</BankBranchName>
    <Country>USA</Country>
    <ZIP>40508</ZIP>
    <State>KY</State>
    <City>Lexington</City>
    <Address2>Engineering</Address2>
    <Address1>749 W. Short St.</Address1>
    <ServiceBranch>North Bank Service</ServiceBranch>
    <Region>KENTUCKY</Region>
    <UserDefined4>My user data 4</UserDefined4>
    <UserDefined3>My user data 3</UserDefined3>
    <UserDefined2>My user data 2</UserDefined2>
    <UserDefined1>My user data 1</UserDefined1>
    <Description4>My description data 4</Description4>
    <Description3>My description data 3</Description3>
    <Description2>My description data 2</Description2>
    <Description1>My description data 1</Description1>
    <ATMSerialNumber>ATM 941088</ATMSerialNumber>
    <CustomerID>North Bank</CustomerID>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>941088</SerialNumber>
    <LockMode>B</LockMode>
    <LockName>Gen2 Deadbolt 941088</LockName>
    </ActivateLockSerialRecord>
    <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_INIT_LOCK_SA_KEY_ACTIVATE>
<ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Initialize lock SA key for activating locks succeeded.</Description>
</ResultRecord>
<KeyInformation>
    <KeyID>00000011DF5B</KeyID>
    <CanType>0C</CanType>
</KeyInformation>
<LockRecordWithResult>
    <ResultRecord>
        <Result>Success</Result>
        <ErrorCode>RC_OK</ErrorCode>
        <IfRetryValid>>false</IfRetryValid>
        <Description>Success</Description>
    </ResultRecord>
    <LockRecord>
        <LockName>Gen2 Deadbolt 941088</LockName>
        <RecordType>A</RecordType>
        <StartDate>2014-11-18T19:00:42.01Z</StartDate>
        <LastUsedDate>2014-11-18T19:00:39.56Z</LastUsedDate>
        <CustomerNumber>883057</CustomerNumber>
        <LockMode>F</LockMode>
        <IfDualMode>>false</IfDualMode>
        <SerialNumber>941088</SerialNumber>
        <AuditCount>1</AuditCount>
        <IfLockOpen>>true</IfLockOpen>
        <IfForcedClosed>>false</IfForcedClosed>
        <IfRoute1Issued>>false</IfRoute1Issued>
        <IfRoute2Issued>>false</IfRoute2Issued>
        <IfRoute3Issued>>false</IfRoute3Issued>
        <IfNoAlarm>>false</IfNoAlarm>
        <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
        <IfActivationCall>>true</IfActivationCall>
        <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
        <Seal>26444</Seal>
        <PreviousSeal>16808</PreviousSeal>
        <RouteSeal1>26444</RouteSeal1>
        <RouteSeal2>0</RouteSeal2>
        <RouteSeal3>0</RouteSeal3>
        <PreviousRouteSeal1>0</PreviousRouteSeal1>
        <PreviousRouteSeal2>0</PreviousRouteSeal2>
        <PreviousRouteSeal3>0</PreviousRouteSeal3>
        <OpenTries1>0</OpenTries1>
        <OpenTries2>0</OpenTries2>
        <OpenTries3>0</OpenTries3>
        <TransferReturnCode>0</TransferReturnCode>
        <IssuedComboUser1Seq1>258367</IssuedComboUser1Seq1>
        <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
        <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
        <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
        <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
        <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
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        <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
        <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
        <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
        <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
        <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
        <GroupName>/>
        <OriginalSerialNumber>000000</OriginalSerialNumber>
        <Description1>My description data 1</Description1>
        <Description2>My description data 2</Description2>
        <Description3>My description data 3</Description3>
        <Description4>My description data 4</Description4>
        <CustomerID>North Bank</CustomerID>
        <ATMSerialNumber>ATM 941088</ATMSerialNumber>

```



```

<UserDefined1>My user data 1</UserDefined1>
<UserDefined2>My user data 2</UserDefined2>
<UserDefined3>My user data 3</UserDefined3>
<UserDefined4>My user data 4</UserDefined4>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>FLM SHA Key 5</User1ID1>
<User1ID2/>
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<User2ID3/>
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<RouteName2/>
<RouteName3/>
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<DispatcherID2/>
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<OpenTime1>2014-11-18T19:00:39.56Z</OpenTime1>
<OpenTime2/>
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<CloseTime2/>
<CloseTime3/>
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<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
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<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 W. Short St.</Address1>
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<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>16808</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
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<DisplayIssuedComboUser1Seq2/>
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<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</LockRecordWithResult>
<LockRecordWithResult>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Success</Description>
  </ResultRecord>
</LockRecord>
<LockName>Gen2 Deadbolt 941088</LockName>
<RecordType>I</RecordType>
<StartDate>2014-11-18T19:00:42.15Z</StartDate>
<LastUsedDate/>
<CustomerNumber>937783</CustomerNumber>
<LockMode>R</LockMode>
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<SerialNumber>941088</SerialNumber>
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<IfForcedClosed>>false</IfForcedClosed>
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<IfRoute2Issued>>false</IfRoute2Issued>
<IfRoute3Issued>>false</IfRoute3Issued>
<IfNoAlarm>>false</IfNoAlarm>
<IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>

```

```
<IfActivationCall>false</IfActivationCall>
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<Seal>34136</Seal>
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<PreviousRouteSeal3>0</PreviousRouteSeal3>
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<Description3>My description data 3</Description3>
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<UserDefined3>My user data 3</UserDefined3>
<UserDefined4>My user data 4</UserDefined4>
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<IfLastRoute2Issued>false</IfLastRoute2Issued>
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<User1ID3/>
<User2ID1/>
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<DispatcherID3/>
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<CloseTime3/>
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<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
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<PreviousRouteName3/>
<PreviousOpenTime1/>
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<PreviousOpenTime3/>
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<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2>Engineering</Address2>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>34136</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress/>
```

```

    <NetworkPort>0</NetworkPort>
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    <DisplayIssuedComboUser1Seq2/>
    <DisplayIssuedComboUser1Seq3/>
    <DisplayIssuedComboUser2Seq1/>
    <DisplayIssuedComboUser2Seq2/>
    <DisplayIssuedComboUser2Seq3/>
    <CloseSealLength>4</CloseSealLength>
  </LockRecord>
</LockRecordWithResult>
<LockRecordWithResult>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Success</Description>
  </ResultRecord>
  <LockRecord>
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    <LastUsedDate/>
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    <IfDualMode>>false</IfDualMode>
    <SerialNumber>941088</SerialNumber>
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    <IfForcedClosed>>false</IfForcedClosed>
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    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
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    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
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    <PreviousSeal>0</PreviousSeal>
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    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
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    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1>My description data 1</Description1>
    <Description2>My description data 2</Description2>
    <Description3>My description data 3</Description3>
    <Description4>My description data 4</Description4>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>ATM 941088</ATMSerialNumber>
    <UserDefined1>My user data 1</UserDefined1>
    <UserDefined2>My user data 2</UserDefined2>
    <UserDefined3>My user data 3</UserDefined3>
    <UserDefined4>My user data 4</UserDefined4>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>>false</IfLastRoute3Issued>
    <User1ID1/>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>
    <RouteName3/>
    <DispatcherID1/>
    <DispatcherID2/>
    <DispatcherID3/>
    <OpenTime1/>
    <OpenTime2/>
    <OpenTime3/>
    <CloseTime1/>
    <CloseTime2/>
    <CloseTime3/>
    <IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
    <IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
    <IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>

```

```

<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2>Engineering</Address2>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>1</BankOpenDelay>
<BankOpenWindow>10</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress/>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>0</CloseSealLength>
<BankModeUserNameArray>
  <UserID>Bank SHA Key 10001</UserID>
  <UserID>Bank SHA Key 10002</UserID>
  <UserID>Bank SHA Key 10003</UserID>
  <UserID>Bank SHA Key 10004</UserID>
  <UserID>BU03</UserID>
  <UserID>BU04</UserID>
  <UserID>BU06</UserID>
  <UserID>BU072</UserID>
</BankModeUserNameArray>
</LockRecord>
</LockRecordWithResult>
</RESPONSE_INIT_LOCK_SA_KEY_ACTIVATE>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran initialize lock SA key for activating multiple locks transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.

3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

Example

This example initializes a lock SA key for activating a single FLM mode lock though a remote keybox agent persistent network connection identified by **KeyBoxSerialNumber:01E164991400008B**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/init_sa_key_activate
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/init_sa_key_activate
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "activateLockSerialRecordField" :
  [
    {
      "aTMSerialNumberField" : "ATM 501107" ,
      "address1Field" : "749 W. Short St." ,
      "address2Field" : "Engineering" ,
      "bankBranchNameField" : null ,
      "bankModeUserNameArrayField" : null ,
      "bankOpenDelayField" : null ,
      "bankOpenWindowField" : null ,
      "cityField" : "Lexington" ,
      "countryField" : "USA" ,
      "customerIDField" : "North Bank" ,
      "description1Field" : "My Description Data 1" ,
      "description2Field" : "My Description Data 2" ,
      "description3Field" : "My Description Data 3" ,
      "description4Field" : "My Description Data 4" ,
      "ifDualModeField" : false ,
      "lockModeField" : 0 ,
      "lockNameField" : "RLK 501107" ,
      "regionField" : "KENTUCKY" ,
      "serialNumberField" : "501107" ,
      "serviceBranchField" : "North Bank Service" ,
      "stateField" : "KY" ,
      "timeZoneIDField" : null ,
      "userDefined1Field" : "My User Data 1" ,
      "userDefined2Field" : "My User Data 2" ,
      "userDefined3Field" : "My User Data 3" ,
      "userDefined4Field" : "My User Data 4" ,
      "zIPField" : "40508"
    }
  ] ,
  "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "iPAddressField" : null ,
  "lockModeToOpenField" : 0 ,
  "timeZoneIDField" : "Eastern Standard Time " ,
  "user1IDToDispatchField" : "Brit" ,
  "user2IDToDispatchField" : null
}
```

Example Output Transaction - JSON:

```
{
  "keyInformationField" :
  {
```

```

"canTypeField" :
[
    12
],
"keyIDField" :
[
    0 ,
    0 ,
    0 ,
    18 ,
    186 ,
    92
]
},
"lockRecordWithResultField" :
[
    {
        "lockRecordField" :
        {
            "aTMSerialNumberField" : "ATM 501107" ,
            "address1Field" : "749 W. Short St." ,
            "address2Field" : "Engineering" ,
            "auditCountField" : "1" ,
            "bankBranchNameField" : "" ,
            "bankModeUserNameArrayField" : null ,
            "bankOpenDelayField" : "0" ,
            "bankOpenWindowField" : "0" ,
            "cityField" : "Lexington" ,
            "closeSealLengthField" : "2" ,
            "closeTime1Field" : null ,
            "closeTime2Field" : null ,
            "closeTime3Field" : null ,
            "countryField" : "USA" ,
            "customerIDField" : "North Bank" ,
            "customerNumberField" : "469419" ,
            "description1Field" : "My Description Data 1" ,
            "description2Field" : "My Description Data 2" ,
            "description3Field" : "My Description Data 3" ,
            "description4Field" : "My Description Data 4" ,
            "dispatcherID1Field" : "CentranSS" ,
            "dispatcherID2Field" : "" ,
            "dispatcherID3Field" : "" ,
            "displayIssuedComboUser1Seq1Field" : "625826" ,
            "displayIssuedComboUser1Seq2Field" : "" ,
            "displayIssuedComboUser1Seq3Field" : "" ,
            "displayIssuedComboUser2Seq1Field" : "" ,
            "displayIssuedComboUser2Seq2Field" : "" ,
            "displayIssuedComboUser2Seq3Field" : "" ,
            "duressDateField" : null ,
            "groupNameField" : "" ,
            "ifActivationCallField" : true ,
            "ifDualModeField" : false ,
            "ifForcedClosedField" : false ,
            "ifLastRoute1IssuedField" : false ,
            "ifLastRoute2IssuedField" : false ,
            "ifLastRoute3IssuedField" : false ,
            "ifLegacyImportField" : false ,
            "ifLockOpenField" : true ,
            "ifNoAlarmField" : false ,
            "ifPreviousRoute1IssuedField" : false ,
            "ifPreviousRoute2IssuedField" : false ,
            "ifPreviousRoute3IssuedField" : false ,
            "ifRoute1IssuedField" : false ,
            "ifRoute2IssuedField" : false ,
            "ifRoute3IssuedField" : false ,
            "ifSecondLineMaintenanceCallField" : false ,
            "ifUnassignedOpenCallField" : false ,
            "issuedComboUser1Seq1Field" : "625826" ,
            "issuedComboUser1Seq2Field" : "0" ,
            "issuedComboUser1Seq3Field" : "0" ,
            "issuedComboUser2Seq1Field" : "0" ,
            "issuedComboUser2Seq2Field" : "0" ,
            "issuedComboUser2Seq3Field" : "0" ,
            "keyCloseSealField" : "7" ,
            "lastUsedDateField" : "\\Date(1416599523298)\\/" ,
            "lockActivationStatusField" : "gen1" ,
            "lockDispatchStatusField" : "" ,
            "lockHardwareModelField" : "" ,
            "lockModeField" : 0 ,
            "lockNameField" : "RLK 501107" ,
            "lowBatteryDateField" : null ,
            "networkAddressField" : "" ,
            "networkPortField" : "0" ,
            "openTime1Field" : "\\Date(1416599523298)\\/" ,
            "openTime2Field" : null ,
            "openTime3Field" : null ,
            "openTries1Field" : "0" ,
            "openTries2Field" : "0" ,
            "openTries3Field" : "0" ,
            "originalSerialNumberField" : "000000" ,

```

```

        "previousCloseTime1Field" : null ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "0" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : null ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "0" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "7" ,
        "previousUser1ID1Field" : "" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "102" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "102" ,
        "serialNumberField" : "501107" ,
        "serviceBranchField" : "North Bank Service" ,
        "startDateField" : "\/Date(1416599524094)\/" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "Brit" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "My User Data 1" ,
        "userDefined2Field" : "My User Data 2" ,
        "userDefined3Field" : "My User Data 3" ,
        "userDefined4Field" : "My User Data 4" ,
        "zIPField" : "40508"
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    }
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Initialize lock SA key for activating locks succeeded."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"TRANSACTION_INIT_LOCK_SA_KEY_ACTIVATEField" :
{
    "activateLockSerialRecordField" :
    [
        {
            "aTMSerialNumberField" : "ATM 501107" ,
            "address1Field" : "749 W. Short St." ,
            "address2Field" : "Engineering" ,
            "bankBranchNameField" : null ,
            "bankModeUserNameArrayField" : null ,
            "bankOpenDelayField" : null ,
            "bankOpenWindowField" : null ,
            "cityField" : "Lexington" ,
            "countryField" : "USA" ,
            "customerIDField" : "North Bank" ,
            "description1Field" : "My Description Data 1" ,

```



```

        "description2Field" : "My Description Data 2" ,
        "description3Field" : "My Description Data 3" ,
        "description4Field" : "My Description Data 4" ,
        "ifDualModeField" : false ,
        "lockModeField" : 0 ,
        "lockNameField" : "RLK 501107" ,
        "regionField" : "KENTUCKY" ,
        "serialNumberField" : "501107" ,
        "serviceBranchField" : "North Bank Service" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : null ,
        "userDefined1Field" : "My User Data 1" ,
        "userDefined2Field" : "My User Data 2" ,
        "userDefined3Field" : "My User Data 3" ,
        "userDefined4Field" : "My User Data 4" ,
        "zIPField" : "40508"
    }
} ,
"communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
"communicationsMethodField" : 1 ,
"dispatcherIDField" : "CentranSS" ,
"iPAddressField" : null ,
"lockModeToOpenField" : 0 ,
"timeZoneIDField" : "Eastern Standard Time " ,
"user1IDToDispatchField" : "Brit" ,
"user2IDToDispatchField" : null
}
}

```

3.2.28 Web Service Lock Transactions - Read Lock SA Key for Activating Multiple Locks

CenTran Programming Reference Manual

This transaction is used to read the lock SA key for activating multiple locks in the specified Cencon keybox. It returns the lock activation records from the lock SA key and current matching lock records from the Cencon database.

Transaction information required:

- **IP Address and Port** - Specifies the keybox to connect to from CenTran to read the key from.
- **Communications ID** - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- **Communications Method** - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Input transaction
- Result record indicating success
- Key serial number information
- Abbreviated Kaba Mas Company ID - This ID is used to identify the company that initialized the activate key.
- Abbreviated Kaba Mas Device ID - This ID is used to identify the Cencon USB Key Box that initialized the activate key.
- An array of daylight savings time transition table entries/li>
- An array of lock activation records read from the lock SA key, along with the matching lock record from the Cencon database.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- The key in the keybox reader slot is not a lock SA key for activating locks.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.

Additional description of returned lock SA key data:

Kaba Mas Abbreviated Company ID:

This value allows identification of what company activated a lock mode for loss prevention. Each set of company security information for the Cencon USB Key Box includes a unique numeric value to identify the company. This value is also copied to the lock when a lock mode is activated. The company can be determined by contacting Kaba Mas customer support. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.

Kaba Mas Abbreviated Device ID:

This value allows identification of what company Cencon USB Key Box activated a lock mode for loss prevention. Each set of company Cencon USB Key Box security information includes a unique numeric value to identify which Cencon USB Key Box was used to initialize the lock SA key for activating the lock. This value is copied to the lock when a lock mode is activated. The company Cencon USB Key Box can be determined by contacting Kaba Mas customer support. If the Cencon lock model is a Cencon Gen 1 lock, this additional security information will not be available.

Daylight Savings Time Transition Record Table Data:

- **Transition Time** - This is the date / time of the daylight savings time transition, in UTC based time. The oldest (earliest) transition time that is prior to the current time is used.
- **Time Zone Bias** - This is the offset in minutes for the local time zone. This offset will be applied to UTC based time to determine the current local time.

Lock Activate Record Data:

- **Serial Number** - This is the serial number for the lock involved in the activate / shelf event.
- **Lock Mode** - This is an identifier for the lock mode involved in the activate / shelf event. This will be F, R, B.
- **If Dual Mode** - This flag indicates if the lock mode requires dual access to open. This will be true if two users are required to open the lock. This will be false if only a single user is required to open the lock.
- **If Gen2 Lock** - This flag indicates if the lock mode is for a Cencon Gen 2 activation or an older Cencon Gen 1 lock. This will be true if for a Cencon Gen 2 lock. This will be false if for a Cencon Gen 1 lock.
- **If Processed By Lock** - This flag indicates if the lock activation record was processed by a lock. This will be true if the key has been used to activate a lock. This will be false if the key has not been used to activate a lock.
- **Customer Number** - This is the generated customer number for the activation of the lock mode. This will be a random six digit numeric value.
- **Bank Open Delay** - The bank open delay only applies to bank mode of the lock. This is the number of minutes (from 1 to 99) that a user will have to wait, after entering a combination and inserting the Personal Identifier Key before the lock will open. If no Time Delay to Open is desired, set this field to 0. It is an optional field, and will default to 0 (no delay) if not set. The Bank Open Delay and Bank Open Window values must be either both zero or both non-zero.
- **Bank Open Window** - The bank open window only applies to bank mode of the lock. The second part of activating with Time Delay is the Window to Open. This specifies the amount of time, in minutes (from 1 to 99), in which a user must re-insert their key to open the lock after the Time Delay has expired. If the lock is not opened before the Window to Open elapses, the lock resets and the combination(s) and key(s) must be repeated, the time delay elapsed and then the lock opened. It is an optional field, and will default to 0 (no delay) if not set. The Bank Open Delay and Bank Open Window values must be either both zero or both non-zero.
- **Bank Branch ID** - The bank branch ID only applies to bank mode of the lock. If you are activating the bank mode of a lock, then this field will contain the numeric bank branch ID used for the activation of the lock. This numeric bank branch ID is identified in the Cencon database by a unique Bank Name. Any bank mode users that are going to be assigned to the

bank mode lock must be associated with the same Bank Branch.

- **Initialization Date** - This is the UTC based date / time that the lock mode was initialized.
- **Lock Record** - This is the matching Cencon database lock record for the lock mode being activated. If the lock mode is being used to open the lock as part of the lock activation process, the lock record will include the dispatched combination information for the matching lock users to open the lock. For a detailed description of the lock record data, refer to the documentation for [Section 2.2.5 Read Lock Data](#).
- **Lock Key Activate Bank User Record** - This record type will occur multiple times for the activation of a bank mode lock. There will be one bank user record for each user being assigned to the bank mode lock. This record type will contain the following fields:
 - **BankUserID** - This is the numeric bank user ID for the user from the lock SA key. See below for valid ranges for this value for different Cencon generations. Cencon Gen 2 locks supports a greater range of bank user IDs than Cencon Gen 1 locks.
 - **CanType** - This is the can type of the key for the user being added to the bank mode lock. This is a single byte value indicating the hardware model of the key. See below for possible values.
 - **KeyID** - This is the 6 byte key ID for the user being added to the bank mode lock. The combination of the key ID and the can type is a unique value.
 - **IsRequiredChangeCombo** - This flag indicates that the user is required to change their combination at the lock before being permitted to open the lock. This flag is not supported by the Cencon Gen 1 lock. It is supported by the Cencon Gen 2 lock.
 - **IsUserEntryClearedByLock** - This flag indicates that the use entry has been read and cleared by the activation process at a Cencon Gen 1 lock. When a Cencon Gen 1 lock processes a bank mode activation, it clears each user entry to indicate that the user entry has been processed. A Cencon Gen 2 lock does not clear the user entries on a lock SA key for activation.
 - **UserRecord** - This field contains the current matching user record from the Cencon database. For a detailed description of the user record data, refer to the documentation for [Section 2.4.2 Read User Data](#).

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Note

Cencon bank mode limitations differ between Cencon Gen 1 locks and Cencon Gen 2 locks. The following table summarizes the differences between the lock versions:

Feature	Cencon Gen 1	Cencon Gen 2
Number of Users On Lock	1-32	1-100
Bank Mode User ID Limit Per Bank Branch	1-79	0-2147483647
Bank Branch ID Limit	1-9999	1-2147483647
Initial Combinations	Bank mode user keys always have an initial default combination of 50-25-50 .	Bank mode user keys have an initial combination as set by the Cencon software.
Combination Valid To Open Lock	Must change bank mode user key initial combination before opening the lock.	Requirement to change the bank mode user key initial combination before opening the lock is set per bank mode user by the Cencon software.
Feature	DS1427 Bank Key	DS1963S Bank Key
Cencon Gen 1	Supported	Not Supported
Cencon Gen 2	Supported	Supported
Security	Legacy Cencon Security	Enhanced Security and Hardware Authentication

Bank Mode User ID Limit Per Bank Branch	1-79	0-2147483647
Bank Branch ID Limit	1-9999	1-2147483647

Example 1 - Success reading lock SA key for activating multiple locks.

Input Transaction Format: (HTTP Post)

https://{host}/CentranService/rest/lock/read_sa_key_activate

Example Input Transaction: (HTTP Post)

https://kml-3242.domain.local/CentranService/rest/lock/read_sa_key_activate

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_READ_LOCK_SA_KEY_ACTIVATE>
  <IPAddress>10.108.6.103:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/></DispatcherID>
</TRANSACTION_READ_LOCK_SA_KEY_ACTIVATE>
```

Example Output Transaction:

```
<RESPONSE_READ_LOCK_SA_KEY_ACTIVATE>
  <TRANSACTION_READ_LOCK_SA_KEY_ACTIVATE>
    <IPAddress>10.108.6.103:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK_SA_KEY_ACTIVATE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>The key read lock activation information succeeded.</Description>
  </ResultRecord>
  <KeyInformation>
    <KeyID>00000011DF5B</KeyID>
    <CanType>0C</CanType>
  </KeyInformation>
  <AbbreviatedCompanyID>0063</AbbreviatedCompanyID>
  <AbbreviatedDeviceID>0182</AbbreviatedDeviceID>
  <DaylightSavingsTimeTransitionRecord>
    <TransitionTime/>
    <TimeZoneBias>-300</TimeZoneBias>
  </DaylightSavingsTimeTransitionRecord>
  <DaylightSavingsTimeTransitionRecord>
    <TransitionTime>2014-03-09T07:00:00Z</TransitionTime>
    <TimeZoneBias>-240</TimeZoneBias>
  </DaylightSavingsTimeTransitionRecord>
  <DaylightSavingsTimeTransitionRecord>
    <TransitionTime>2014-11-02T06:00:00Z</TransitionTime>
    <TimeZoneBias>-300</TimeZoneBias>
  </DaylightSavingsTimeTransitionRecord>
  <DaylightSavingsTimeTransitionRecord>
    <TransitionTime>2015-03-08T07:00:00Z</TransitionTime>
    <TimeZoneBias>-240</TimeZoneBias>
  </DaylightSavingsTimeTransitionRecord>
  <DaylightSavingsTimeTransitionRecord>
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    <TimeZoneBias>-300</TimeZoneBias>
  </DaylightSavingsTimeTransitionRecord>
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    <TimeZoneBias>-240</TimeZoneBias>
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  <DaylightSavingsTimeTransitionRecord>
    <TransitionTime>2016-11-06T06:00:00Z</TransitionTime>
    <TimeZoneBias>-300</TimeZoneBias>
  </DaylightSavingsTimeTransitionRecord>
  <DaylightSavingsTimeTransitionRecord>
    <TransitionTime>2017-03-12T07:00:00Z</TransitionTime>
    <TimeZoneBias>-240</TimeZoneBias>
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    <TimeZoneBias>-300</TimeZoneBias>
  </DaylightSavingsTimeTransitionRecord>
  <DaylightSavingsTimeTransitionRecord>
    <TransitionTime>2018-03-11T07:00:00Z</TransitionTime>
    <TimeZoneBias>-240</TimeZoneBias>
  </DaylightSavingsTimeTransitionRecord>
```

[illegible]

```
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</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2031-03-09T07:00:00Z</TransitionTime>
  <TimeZoneBias>-240</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2031-11-02T06:00:00Z</TransitionTime>
  <TimeZoneBias>-300</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
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  <TimeZoneBias>-240</TimeZoneBias>
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  <TransitionTime>2032-11-07T06:00:00Z</TransitionTime>
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  <TransitionTime>2033-03-13T07:00:00Z</TransitionTime>
  <TimeZoneBias>-240</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
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  <SerialNumber>941088</SerialNumber>
  <LockMode>F</LockMode>
  <IfDualMode>>false</IfDualMode>
  <IfGen2Lock>>false</IfGen2Lock>
  <IfProcessedByLock>>false</IfProcessedByLock>
  <CustomerNumber>883057</CustomerNumber>
  <BankOpenDelay/>
  <BankOpenWindow/>
  <BankBranchID/>
  <InitializationDate>2014-11-18T19:00:42Z</InitializationDate>
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    <RecordType>A</RecordType>
    <StartDate>2014-11-18T19:00:42.01Z</StartDate>
    <LastUsedDate>2014-11-18T19:00:39.56Z</LastUsedDate>
    <CustomerNumber>883057</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>941088</SerialNumber>
    <AuditCount>1</AuditCount>
    <IfLockOpen>>true</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>true</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>26444</Seal>
    <PreviousSeal>16808</PreviousSeal>
    <RouteSeal1>26444</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>258367</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
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    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
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    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1>My description data 1</Description1>
    <Description2>My description data 2</Description2>
    <Description3>My description data 3</Description3>
    <Description4>My description data 4</Description4>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>ATM 941088</ATMSerialNumber>
    <UserDefined1>My user data 1</UserDefined1>
    <UserDefined2>My user data 2</UserDefined2>
    <UserDefined3>My user data 3</UserDefined3>
    <UserDefined4>My user data 4</UserDefined4>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>>false</IfLastRoute3Issued>
    <User1ID1>FLM SHA Key 5</User1ID1>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
```



```

<User2ID3/>
<RouteName1/>
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<RouteName3/>
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2014-11-18T19:00:39.56Z</OpenTime1>
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<CloseTime2/>
<CloseTime3/>
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<PreviousRouteName3/>
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<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
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<Address2>Engineering</Address2>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
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<BankOpenWindow>0</BankOpenWindow>
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<LockDispatchStatus/>
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<LowBatteryDate/>
<DuressDate/>
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<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1>258367</DisplayIssuedComboUser1Seq1>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
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  <LockMode>R</LockMode>
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  <IfGen2Lock>>false</IfGen2Lock>
  <IfProcessedByLock>>false</IfProcessedByLock>
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  <BankOpenDelay/>
  <BankOpenWindow/>
  <BankBranchID/>
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    <RecordType>I</RecordType>
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    <LastUsedDate/>
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    <LockMode>R</LockMode>
    <IfDualMode>>false</IfDualMode>
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    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
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    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
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```



```
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<KeyID>0000001466FC</KeyID>
<IsRequiredChangeCombo>false</IsRequiredChangeCombo>
<IsUserEntryClearedByLock>false</IsUserEntryClearedByLock>
<UserRecord>
<UserID>BU06</UserID>
<SecurityLevel>4</SecurityLevel>
<KeyID>0000001466FC</KeyID>
<CanType>84</CanType>
<NumberCombosIssued>0</NumberCombosIssued>
<CreationDate>2008-09-04T15:06:37Z</CreationDate>
<DeletionDate/>
<Nickname/>
<NicknameExpirationDate/>
<GroupName/>
<NumberTimeWindows>0</NumberTimeWindows>
<Window1Start>0</Window1Start>
<Window1Duration>0</Window1Duration>
<IfWindow1Sun>false</IfWindow1Sun>
<IfWindow1Mon>false</IfWindow1Mon>
<IfWindow1Tue>false</IfWindow1Tue>
<IfWindow1Wed>false</IfWindow1Wed>
<IfWindow1Thu>false</IfWindow1Thu>
<IfWindow1Fri>false</IfWindow1Fri>
<IfWindow1Sat>false</IfWindow1Sat>
<Window2Start>0</Window2Start>
<Window2Duration>0</Window2Duration>
<IfWindow2Sun>false</IfWindow2Sun>
<IfWindow2Mon>false</IfWindow2Mon>
<IfWindow2Tue>false</IfWindow2Tue>
<IfWindow2Wed>false</IfWindow2Wed>
<IfWindow2Thu>false</IfWindow2Thu>
<IfWindow2Fri>false</IfWindow2Fri>
<IfWindow2Sat>false</IfWindow2Sat>
<Window3Start>0</Window3Start>
<Window3Duration>0</Window3Duration>
<IfWindow3Sun>false</IfWindow3Sun>
<IfWindow3Mon>false</IfWindow3Mon>
<IfWindow3Tue>false</IfWindow3Tue>
<IfWindow3Wed>false</IfWindow3Wed>
<IfWindow3Thu>false</IfWindow3Thu>
<IfWindow3Fri>false</IfWindow3Fri>
<IfWindow3Sat>false</IfWindow3Sat>
<Region>KENTUCKY</Region>
<ServiceBranch/>
<FirstName/>
<MiddleName/>
<LastName/>
<LastUsedDate>2008-09-04T15:06:37Z</LastUsedDate>
<AuthorizationRole>Bank</AuthorizationRole>
<BankUserID>6</BankUserID>
<TotalNumberCombosIssued>0</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate/>
<EnabledEndDate/>
<BankBranchName>North Bank Branch</BankBranchName>
<CustomerID/>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>false</IfMustChangeCombo>
<IfLegacyImport>false</IfLegacyImport>
</UserRecord>

```



```

</LockKeyActivateBankUserRecord>
<LockKeyActivateBankUserRecord>
  <BankUserID>72</BankUserID>
  <CanType>84</CanType>
  <KeyID>0000000EF469</KeyID>
  <IsRequiredChangeCombo>>false</IsRequiredChangeCombo>
  <IsUserEntryClearedByLock>>false</IsUserEntryClearedByLock>
  <UserRecord>
    <UserID>BU072</UserID>
    <SecurityLevel>4</SecurityLevel>
    <KeyID>0000000EF469</KeyID>
    <CanType>84</CanType>
    <NumberCombosIssued>0</NumberCombosIssued>
    <CreationDate>2013-04-17T17:15:28.85Z</CreationDate>
    <DeletionDate/>
    <Nickname/>
    <NicknameExpirationDate/>
    <GroupName/>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Window1Start>0</Window1Start>
    <Window1Duration>0</Window1Duration>
    <IfWindow1Sun>>false</IfWindow1Sun>
    <IfWindow1Mon>>false</IfWindow1Mon>
    <IfWindow1Tue>>false</IfWindow1Tue>
    <IfWindow1Wed>>false</IfWindow1Wed>
    <IfWindow1Thu>>false</IfWindow1Thu>
    <IfWindow1Fri>>false</IfWindow1Fri>
    <IfWindow1Sat>>false</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>>false</IfWindow2Sun>
    <IfWindow2Mon>>false</IfWindow2Mon>
    <IfWindow2Tue>>false</IfWindow2Tue>
    <IfWindow2Wed>>false</IfWindow2Wed>
    <IfWindow2Thu>>false</IfWindow2Thu>
    <IfWindow2Fri>>false</IfWindow2Fri>
    <IfWindow2Sat>>false</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>>false</IfWindow3Sun>
    <IfWindow3Mon>>false</IfWindow3Mon>
    <IfWindow3Tue>>false</IfWindow3Tue>
    <IfWindow3Wed>>false</IfWindow3Wed>
    <IfWindow3Thu>>false</IfWindow3Thu>
    <IfWindow3Fri>>false</IfWindow3Fri>
    <IfWindow3Sat>>false</IfWindow3Sat>
    <Region>KENTUCKY</Region>
    <ServiceBranch/>
    <FirstName/>
    <MiddleName/>
    <LastName/>
    <LastUsedDate>2013-04-17T17:15:28.85Z</LastUsedDate>
    <AuthorizationRole>Bank</AuthorizationRole>
    <BankUserID>72</BankUserID>
    <TotalNumberCombosIssued>0</TotalNumberCombosIssued>
    <MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
    <EnabledStartDate/>
    <EnabledEndDate/>
    <BankBranchName>North Bank Branch</BankBranchName>
    <CustomerID/>
    <UserCombo>-1</UserCombo>
    <IfMustChangeCombo>>false</IfMustChangeCombo>
    <IfLegacyImport>>false</IfLegacyImport>
  </UserRecord>
</LockKeyActivateBankUserRecord>
</LockKeyActivateRecord>
</RESPONSE_READ_LOCK_SA_KEY_ACTIVATE>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran initialize lock SA key for audit download transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning

0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

Example

This example reads a lock SA key for activating multiple locks though a remote keybox agent persistent network connection identified by Cencon Keybox serial number: **01E164991400008B**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/read_sa_key_activate
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/read_sa_key_activate
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "iAddressField" : null
}
```

Example Output Transaction - JSON:

```
{
  "abbreviatedCompanyIDField" : "0063" ,
  "abbreviatedDeviceIDField" : "0182" ,
  "daylightSavingsTimeTransitionRecordField" :
  [
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : null
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\\Date(1394348400000) \\"
    } ,
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : "\\Date(1414908000000) \\"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\\Date(1425798000000) \\"
    } ,
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : "\\Date(1446357600000) \\"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\\Date(1457852400000) \\"
    }
  ]
}
```

```

    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1478412000000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1489302000000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1509861600000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1520751600000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1541311200000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1552201200000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1572760800000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1583650800000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1604210400000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1615705200000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1636264800000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1647154800000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1667714400000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1678604400000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1699164000000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1710054000000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1730613600000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1741503600000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1762063200000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1772953200000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1793512800000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1805007600000) \\/"
    },
    {

```

```

        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\/Date(1825567200000)\/"
    } ,
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\/Date(1836457200000)\/"
    } ,
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\/Date(1857016800000)\/"
    } ,
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\/Date(1867906800000)\/"
    } ,
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\/Date(1888466400000)\/"
    } ,
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\/Date(1899356400000)\/"
    } ,
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\/Date(1919916000000)\/"
    } ,
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\/Date(1930806000000)\/"
    } ,
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\/Date(1951365600000)\/"
    } ,
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\/Date(1962860400000)\/"
    } ,
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\/Date(1983420000000)\/"
    } ,
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\/Date(1994310000000)\/"
    }
] ,
"keyInformationField" :
{
    "canTypeField" :
    [
        12
    ] ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        17 ,
        223 ,
        91
    ]
} ,
"lockKeyActivateRecordField" :
[
    {
        "bankBranchIDField" : null ,
        "bankOpenDelayField" : null ,
        "bankOpenWindowField" : null ,
        "customerNumberField" : "883057" ,
        "ifDualModeField" : false ,
        "ifGen2LockField" : false ,
        "ifProcessedByLockField" : false ,
        "initializationDateField" : "\/Date(1416337242000)\/" ,
        "lockKeyActivateBankUserRecordField" : null ,
        "lockModeField" : 0 ,
        "lockRecordField" :
        {
            "aTMSerialNumberField" : "ATM 941088" ,
            "address1Field" : "749 W. Short St." ,
            "address2Field" : "Engineering" ,
            "auditCountField" : "1" ,
            "bankBranchNameField" : "" ,
            "bankModeUserNameArrayField" : null ,
            "bankOpenDelayField" : "0" ,
            "bankOpenWindowField" : "0" ,
            "cityField" : "Lexington" ,
            "closeSealLengthField" : "4" ,
            "closeTimeField" : null ,

```

```

"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "USA" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "883057" ,
"description1Field" : "My description data 1" ,
"description2Field" : "My description data 2" ,
"description3Field" : "My description data 3" ,
"description4Field" : "My description data 4" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "258367" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : true ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : true ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "258367" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "16808" ,
"lastUsedDateField" : "\/Date(1416337239560)\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Deadbolt 941088" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1416337239560)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : null ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "16808" ,
"previousUser1ID1Field" : "" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,

```

```

        "routeSeal1Field" : "26444" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "26444" ,
        "serialNumberField" : "941088" ,
        "serviceBranchField" : "North Bank Service" ,
        "startDateField" : "\/Date(1416337242010)\/" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "FLM SHA Key 5" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "My user data 1" ,
        "userDefined2Field" : "My user data 2" ,
        "userDefined3Field" : "My user data 3" ,
        "userDefined4Field" : "My user data 4" ,
        "zIPField" : "40508"
    } ,
    "serialNumberField" : "941088"
} ,
{
    "bankBranchIDField" : null ,
    "bankOpenDelayField" : null ,
    "bankOpenWindowField" : null ,
    "customerNumberField" : "937783" ,
    "ifDualModeField" : false ,
    "ifGen2LockField" : false ,
    "ifProcessedByLockField" : false ,
    "initializationDateField" : "\/Date(1416337242000)\/" ,
    "lockKeyActivateBankUserRecordField" : null ,
    "lockModeField" : 1 ,
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "ATM 941088" ,
        "address1Field" : "749 W. Short St." ,
        "address2Field" : "Engineering" ,
        "auditCountField" : "1" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" : null ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "Lexington" ,
        "closeSealLengthField" : "4" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "USA" ,
        "customerIDField" : "North Bank" ,
        "customerNumberField" : "937783" ,
        "description1Field" : "My description data 1" ,
        "description2Field" : "My description data 2" ,
        "description3Field" : "My description data 3" ,
        "description4Field" : "My description data 4" ,
        "dispatcherID1Field" : "" ,
        "dispatcherID2Field" : "" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "" ,
        "displayIssuedComboUser1Seq2Field" : "" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : "" ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : false ,
        "ifLastRoute2IssuedField" : false ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : false ,
        "ifRoute2IssuedField" : false ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "0" ,
        "issuedComboUser1Seq2Field" : "0" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
    }
}

```

```

        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "34136" ,
        "lastUsedDateField" : null ,
        "lockActivationStatusField" : "gen2" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Deadbolt 941088" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : null ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : null ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "0" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : null ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "0" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "0" ,
        "previousUser1ID1Field" : "" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 3 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "0" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "34136" ,
        "serialNumberField" : "941088" ,
        "serviceBranchField" : "North Bank Service" ,
        "startDateField" : "\/Date(1416337242150)\/" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "My user data 1" ,
        "userDefined2Field" : "My user data 2" ,
        "userDefined3Field" : "My user data 3" ,
        "userDefined4Field" : "My user data 4" ,
        "zIPField" : "40508"
    } ,
    "serialNumberField" : "941088"
} ,
{
    "bankBranchIDField" : "1234" ,
    "bankOpenDelayField" : "1" ,
    "bankOpenWindowField" : "10" ,
    "customerNumberField" : null ,
    "ifDualModeField" : false ,
    "ifGen2LockField" : false ,
    "ifProcessedByLockField" : false ,
    "initializationDateField" : "\/Date(1416337242000)\/" ,
    "lockKeyActivateBankUserRecordField" :
    [
        {
            "bankUserIDField" : "10001" ,
            "canTypeField" :
            [
                24
            ] ,
            "isRequiredChangeComboField" : false ,

```



```

        "isUserEntryClearedByLockField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            106 ,
            58 ,
            248
        ] ,
        "userRecordField" :
        {
            "authorizationRoleField" : "Bank" ,
            "bankBranchNameField" : "North Bank Branch" ,
            "bankUserIDField" : "10001" ,
            "canTypeField" :
            [
                24
            ] ,
            "creationDateField" : "\/Date(1363612264540)\/" ,
            "customerIDField" : "North Bank" ,
            "deletionDateField" : null ,
            "enabledEndDateField" : null ,
            "enabledStartDateField" : null ,
            "firstNameField" : "" ,
            "groupNameField" : "" ,
            "ifLegacyImportField" : false ,
            "ifMustChangeComboField" : false ,
            "ifWindow1FriField" : false ,
            "ifWindow1MonField" : false ,
            "ifWindow1SatField" : false ,
            "ifWindow1SunField" : false ,
            "ifWindow1ThuField" : false ,
            "ifWindow1TueField" : false ,
            "ifWindow1WedField" : false ,
            "ifWindow2FriField" : false ,
            "ifWindow2MonField" : false ,
            "ifWindow2SatField" : false ,
            "ifWindow2SunField" : false ,
            "ifWindow2ThuField" : false ,
            "ifWindow2TueField" : false ,
            "ifWindow2WedField" : false ,
            "ifWindow3FriField" : false ,
            "ifWindow3MonField" : false ,
            "ifWindow3SatField" : false ,
            "ifWindow3SunField" : false ,
            "ifWindow3ThuField" : false ,
            "ifWindow3TueField" : false ,
            "ifWindow3WedField" : false ,
            "keyIDField" :
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                0 ,
                0 ,
                0 ,
                106 ,
                58 ,
                248
            ] ,
            "lastNameField" : "" ,
            "lastUsedDateField" : "\/Date(1363612264540)\/" ,
            "maximumNumberAllowedCombosField" : "0" ,
            "middleNameField" : "" ,
            "nicknameExpirationDateField" : null ,
            "nicknameField" : "" ,
            "numberCombosIssuedField" : "0" ,
            "numberTimeWindowsField" : "0" ,
            "regionField" : "KENTUCKY" ,
            "securityLevelField" : "4" ,
            "serviceBranchField" : "Service Branch 2" ,
            "totalNumberCombosIssuedField" : "0" ,
            "userComboField" : "265742" ,
            "userIDField" : "Bank SHA Key 10001" ,
            "window1DurationField" : "0" ,
            "window1StartField" : "0" ,
            "window2DurationField" : "0" ,
            "window2StartField" : "0" ,
            "window3DurationField" : "0" ,
            "window3StartField" : "0"
        }
    } ,
    {
        "bankUserIDField" : "10002" ,
        "canTypeField" :
        [
            24
        ] ,
        "isRequiredChangeComboField" : false ,
        "isUserEntryClearedByLockField" : false ,
        "keyIDField" :
        [
            0 ,

```

```

0 ,
0 ,
106 ,
122 ,
176
] ,
"userRecordField" :
{
    "authorizationRoleField" : "Bank" ,
    "bankBranchNameField" : "North Bank Branch" ,
    "bankUserIDField" : "10002" ,
    "canTypeField" :
    [
        24
    ] ,
    "creationDateField" : "\/Date(1363612316600)\/" ,
    "customerIDField" : "North Bank" ,
    "deletionDateField" : null ,
    "enabledEndDateField" : null ,
    "enabledStartDateField" : null ,
    "firstNameField" : "" ,
    "groupNameField" : "" ,
    "ifLegacyImportField" : false ,
    "ifMustChangeComboField" : false ,
    "ifWindow1FriField" : false ,
    "ifWindow1MonField" : false ,
    "ifWindow1SatField" : false ,
    "ifWindow1SunField" : false ,
    "ifWindow1ThuField" : false ,
    "ifWindow1TueField" : false ,
    "ifWindow1WedField" : false ,
    "ifWindow2FriField" : false ,
    "ifWindow2MonField" : false ,
    "ifWindow2SatField" : false ,
    "ifWindow2SunField" : false ,
    "ifWindow2ThuField" : false ,
    "ifWindow2TueField" : false ,
    "ifWindow2WedField" : false ,
    "ifWindow3FriField" : false ,
    "ifWindow3MonField" : false ,
    "ifWindow3SatField" : false ,
    "ifWindow3SunField" : false ,
    "ifWindow3ThuField" : false ,
    "ifWindow3TueField" : false ,
    "ifWindow3WedField" : false ,
    "keyIDField" :
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        0 ,
        0 ,
        0 ,
        106 ,
        122 ,
        176
    ] ,
    "lastNameField" : "" ,
    "lastUsedDateField" : "\/Date(1363612316600)\/" ,
    "maximumNumberAllowedCombosField" : "0" ,
    "middleNameField" : "" ,
    "nicknameExpirationDateField" : null ,
    "nicknameField" : "" ,
    "numberCombosIssuedField" : "0" ,
    "numberTimeWindowsField" : "0" ,
    "regionField" : "KENTUCKY" ,
    "securityLevelField" : "4" ,
    "serviceBranchField" : "Service Branch 2" ,
    "totalNumberCombosIssuedField" : "0" ,
    "userComboField" : "123456" ,
    "userIDField" : "Bank SHA Key 10002" ,
    "window1DurationField" : "0" ,
    "window1StartField" : "0" ,
    "window2DurationField" : "0" ,
    "window2StartField" : "0" ,
    "window3DurationField" : "0" ,
    "window3StartField" : "0"
}
} ,
{
    "bankUserIDField" : "10003" ,
    "canTypeField" :
    [
        24
    ] ,
    "isRequiredChangeComboField" : false ,
    "isUserEntryClearedByLockField" : false ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        177
    ]
}

```

```

181
    ],
    "userRecordField" :
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        "authorizationRoleField" : "Bank" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankUserIDField" : "10003" ,
        "canTypeField" :
        [
            24
        ] ,
        "creationDateField" : "\/Date(1363612361053)\/" ,
        "customerIDField" : "North Bank" ,
        "deletionDateField" : null ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            106 ,
            177 ,
            181
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\/Date(1363612361053)\/" ,
        "maximumNumberAllowedCombosField" : "0" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "0" ,
        "regionField" : "KENTUCKY" ,
        "securityLevelField" : "4" ,
        "serviceBranchField" : "Service Branch 2" ,
        "totalNumberCombosIssuedField" : "0" ,
        "userComboField" : "111111" ,
        "userIDField" : "Bank SHA Key 10003" ,
        "window1DurationField" : "0" ,
        "window1StartField" : "0" ,
        "window2DurationField" : "0" ,
        "window2StartField" : "0" ,
        "window3DurationField" : "0" ,
        "window3StartField" : "0"
    }
},
{
    "bankUserIDField" : "10004" ,
    "canTypeField" :
    [
        24
    ] ,
    "isRequiredChangeComboField" : false ,
    "isUserEntryClearedByLockField" : false ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        168 ,
        255
    ] ,
    "userRecordField" :
    {

```

```

        "authorizationRoleField" : "Bank" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankUserIDField" : "10004" ,
        "canTypeField" :
        [
            24
        ] ,
        "creationDateField" : "\/Date(1363612397677)\/" ,
        "customerIDField" : "North Bank" ,
        "deletionDateField" : null ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            106 ,
            168 ,
            255
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\/Date(1363612397677)\/" ,
        "maximumNumberAllowedCombosField" : "0" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "0" ,
        "regionField" : "KENTUCKY" ,
        "securityLevelField" : "4" ,
        "serviceBranchField" : "Service Branch 2" ,
        "totalNumberCombosIssuedField" : "0" ,
        "userComboField" : "123456" ,
        "userIDField" : "Bank SHA Key 10004" ,
        "window1DurationField" : "0" ,
        "window1StartField" : "0" ,
        "window2DurationField" : "0" ,
        "window2StartField" : "0" ,
        "window3DurationField" : "0" ,
        "window3StartField" : "0"
    }
} ,
{
    "bankUserIDField" : "3" ,
    "canTypeField" :
    [
        132
    ] ,
    "isRequiredChangeComboField" : false ,
    "isUserEntryClearedByLockField" : false ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        13 ,
        225 ,
        100
    ] ,
    "userRecordField" :
    {
        "authorizationRoleField" : "Bank" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankUserIDField" : "3" ,
        "canTypeField" :

```

```

        [
            132
        ],
        "creationDateField" : "\/Date(1219146609000)\/" ,
        "customerIDField" : "" ,
        "deletionDateField" : null ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            13 ,
            225 ,
            100
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\/Date(1219146609000)\/" ,
        "maximumNumberAllowedCombosField" : "0" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "0" ,
        "regionField" : "KENTUCKY" ,
        "securityLevelField" : "4" ,
        "serviceBranchField" : "" ,
        "totalNumberCombosIssuedField" : "0" ,
        "userComboField" : "123456" ,
        "userIDField" : "BU03" ,
        "window1DurationField" : "0" ,
        "window1StartField" : "0" ,
        "window2DurationField" : "0" ,
        "window2StartField" : "0" ,
        "window3DurationField" : "0" ,
        "window3StartField" : "0"
    }
},
{
    "bankUserIDField" : "4" ,
    "canTypeField" :
    [
        132
    ] ,
    "isRequiredChangeComboField" : false ,
    "isUserEntryClearedByLockField" : false ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        13 ,
        209 ,
        150
    ] ,
    "userRecordField" :
    {
        "authorizationRoleField" : "Bank" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankUserIDField" : "4" ,
        "canTypeField" :
        [
            132
        ] ,
        "creationDateField" : "\/Date(1219146684000)\/" ,

```

```

        "customerIDField" : "" ,
        "deletionDateField" : null ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            13 ,
            209 ,
            150
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\\Date(1219146684000)\\/" ,
        "maximumNumberAllowedCombosField" : "0" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "0" ,
        "regionField" : "KENTUCKY" ,
        "securityLevelField" : "4" ,
        "serviceBranchField" : "" ,
        "totalNumberCombosIssuedField" : "0" ,
        "userComboField" : "0" ,
        "userIDField" : "BU04" ,
        "window1DurationField" : "0" ,
        "window1StartField" : "0" ,
        "window2DurationField" : "0" ,
        "window2StartField" : "0" ,
        "window3DurationField" : "0" ,
        "window3StartField" : "0"
    }
} ,
{
    "bankUserIDField" : "6" ,
    "canTypeField" :
    [
        132
    ] ,
    "isRequiredChangeComboField" : false ,
    "isUserEntryClearedByLockField" : false ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        20 ,
        102 ,
        252
    ] ,
    "userRecordField" :
    {
        "authorizationRoleField" : "Bank" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankUserIDField" : "6" ,
        "canTypeField" :
        [
            132
        ] ,
        "creationDateField" : "\\Date(1220540797000)\\/" ,
        "customerIDField" : "" ,
        "deletionDateField" : null ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,

```

```

        "firstNameField" : "" ,
        "groupNameField" : "" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            20 ,
            102 ,
            252
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\/Date(1220540797000)\/" ,
        "maximumNumberAllowedCombosField" : "0" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "0" ,
        "regionField" : "KENTUCKY" ,
        "securityLevelField" : "4" ,
        "serviceBranchField" : "" ,
        "totalNumberCombosIssuedField" : "0" ,
        "userComboField" : "0" ,
        "userIDField" : "BU06" ,
        "window1DurationField" : "0" ,
        "window1StartField" : "0" ,
        "window2DurationField" : "0" ,
        "window2StartField" : "0" ,
        "window3DurationField" : "0" ,
        "window3StartField" : "0"
    }
} ,
{
    "bankUserIDField" : "72" ,
    "canTypeField" :
    [
        132
    ] ,
    "isRequiredChangeComboField" : false ,
    "isUserEntryClearedByLockField" : false ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        14 ,
        244 ,
        105
    ] ,
    "userRecordField" :
    {
        "authorizationRoleField" : "Bank" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankUserIDField" : "72" ,
        "canTypeField" :
        [
            132
        ] ,
        "creationDateField" : "\/Date(1366218928850)\/" ,
        "customerIDField" : "" ,
        "deletionDateField" : null ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,

```



```

        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            14 ,
            244 ,
            105
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\\Date(1366218928850)\\\" ,
        "maximumNumberAllowedCombosField" : "0\" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0\" ,
        "numberTimeWindowsField" : "0\" ,
        "regionField" : "KENTUCKY\" ,
        "securityLevelField" : "4\" ,
        "serviceBranchField" : "" ,
        "totalNumberCombosIssuedField" : "0\" ,
        "userComboField" : "-1\" ,
        "userIDField" : "BU072\" ,
        "window1DurationField" : "0\" ,
        "window1StartField" : "0\" ,
        "window2DurationField" : "0\" ,
        "window2StartField" : "0\" ,
        "window3DurationField" : "0\" ,
        "window3StartField" : "0\"
    }
}
} ,
"lockModeField" : 2 ,
"lockRecordField" :
{
    "aTMSerialNumberField" : "ATM 941088\" ,
    "address1Field" : "749 W. Short St.\" ,
    "address2Field" : "Engineering\" ,
    "auditCountField" : "1\" ,
    "bankBranchNameField" : "North Bank Branch\" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "1\" ,
    "bankOpenWindowField" : "10\" ,
    "cityField" : "Lexington\" ,
    "closeSealLengthField" : "0\" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA\" ,
    "customerIDField" : "North Bank\" ,
    "customerNumberField" : "283041\" ,
    "description1Field" : "My description data 1\" ,
    "description2Field" : "My description data 2\" ,
    "description3Field" : "My description data 3\" ,
    "description4Field" : "My description data 4\" ,
    "dispatcherID1Field" : "" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : "" ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : false ,
    "ifForcedClosedField" : false ,

```

```

        "ifLastRoute1IssuedField" : false ,
        "ifLastRoute2IssuedField" : false ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : false ,
        "ifRoute2IssuedField" : false ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "0" ,
        "issuedComboUser1Seq2Field" : "0" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "0" ,
        "lastUsedDateField" : null ,
        "lockActivationStatusField" : "gen2" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Deadbolt 941088" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : null ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : null ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "0" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : null ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "0" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "0" ,
        "previousUser1ID1Field" : "" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "0" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "0" ,
        "serialNumberField" : "941088" ,
        "serviceBranchField" : "North Bank Service" ,
        "startDateField" : "\/Date(1416337242243)\/" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "My user data 1" ,
        "userDefined2Field" : "My user data 2" ,
        "userDefined3Field" : "My user data 3" ,
        "userDefined4Field" : "My user data 4" ,
        "zIPField" : "40508"
    } ,
    "serialNumberField" : "941088"

```

```

    }
  ],
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "The key read lock activation information succeeded."
    ],
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  },
  "tTRANSACTION_READ_LOCK_SA_KEY_ACTIVATEField" :
  {
    "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "iAddressField" : null
  }
}

```

3.2.29 Web Service Lock Transactions - Initialize Lock Dispatch State Resynchronization Key

CenTran Programming Reference Manual

This transaction is used to initialize a lock dispatch state resynchronization key in the specified Cencon keybox. This is to resynchronize the state of a Cencon Gen 2 lock in the Cencon database with the actual state of a Cencon Gen 2 lock. The initialized key is taken to the lock to read the current lock dispatch state, and then returned to save the state to the Cencon database.

The lock mode can not be dispatched while this procedure is in process. After initializing a lock dispatch state resynchronization key for a lock mode, the lock mode must either be resynchronized with the returned key or the rechronization must be cancelled.

Transaction information required:

- Either Lock Name or Lock Serial Number - Specifies the lock to have dispatching resynchronized.
- Lock Mode - Specifies the lock mode to have dispatching resynchronized. This must be either FLM or Route mode. Bank mode is not applicable since it has fixed combinations for user keys.
- IP Address and Port - Specifies the keybox to connect to from CenTran to initialize the key.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to initialize the key. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description), the key serial number information, and the lock record for the lock mode being resynchronized.

Refer to the documentation for [Section 2.2.5 Read Lock Data](#) for details on the lock record data returned.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Incorrect model of key is present in the keybox reader slot.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example 1 - Initialize Lock Dispatch State Resynchronization Key By Lock Serial Number

This example initializes a lock dispatch state resynchronization key in a keybox hosted by a Cencon Keybox Agent on a network, using a persistent network connection ID for the keybox.

The lock is specified by serial number **1000116** and FLM mode.

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/init_resync_key
```

Example Input Transaction: (HTTP Post)

https://kml-3242.domain.local/CentranService/rest/lock/init_resync_key

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_INIT_LOCK_RESYNC_KEY>
  <SerialNumber>1000116</SerialNumber>
  <LockMode>F</LockMode>
  <IPAddress/>
  <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
  <CommunicationsMethod>TcpClient</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_INIT_LOCK_RESYNC_KEY>
```

Example Output Transaction:

```
<RESPONSE_INIT_LOCK_RESYNC_KEY>
  <TRANSACTION_INIT_LOCK_RESYNC_KEY>
    <SerialNumber>1000116</SerialNumber>
    <LockMode>F</LockMode>
    <IPAddress/>
    <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_INIT_LOCK_RESYNC_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Initialize lock dispatch state resynchronization key succeeded.
  </Description>
  </ResultRecord>
  <KeyInformation>
    <KeyID>0000006A3F4C</KeyID>
    <CanType>18</CanType>
  </KeyInformation>
  <LockRecord>
    <LockName>Gen2Swingbolt 1000116</LockName>
    <RecordType>A</RecordType>
    <StartDate>2013-11-25T18:40:52.927Z</StartDate>
    <LastUsedDate>2015-04-22T14:22:35.41Z</LastUsedDate>
    <CustomerNumber>532188</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000116</SerialNumber>
    <AuditCount>8</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>true</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>9216</Seal>
    <PreviousSeal>12800</PreviousSeal>
    <RouteSeal1>9216</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>14776</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>198835</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>359709</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1/>
    <Description2/>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber/>
    <UserDefined1/>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
```

```

<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>FLM SHA Key 4</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>MHG\LSTALL</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2015-04-22T14:21:45.237Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-22T14:22:35.41Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 4</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2015-04-21T20:14:23.663Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2015-04-21T20:22:47.033Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus>resync</LockDispatchStatus>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_INIT_LOCK_RESYNC_KEY>

```

Example 2 - Initialize Lock Dispatch State Resynchronization Key By Lock Name

This example initializes a lock dispatch state resynchronization key in a keybox hosted by a Cencon Keybox Agent on a network, using a direct network connection IP address.

The lock is specified by lock name **Gen2Swingbolt 1000116** and FLM mode.

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/init_resync_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/init_resync_key
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_INIT_LOCK_RESYNC_KEY>
```

```
<LockName>Gen2Swingbolt 1000116</LockName>
<LockMode>F</LockMode>
<IPAddress>10.108.6.94:53003</IPAddress>
<CommunicationsID/>
<CommunicationsMethod>Tcp</CommunicationsMethod>
<DispatcherID/>
</TRANSACTION_INIT_LOCK_RESYNC_KEY>
```

Example Output Transaction:

```
<RESPONSE_INIT_LOCK_RESYNC_KEY>
  <TRANSACTION_INIT_LOCK_RESYNC_KEY>
    <LockName>Gen2Swingbolt 1000116</LockName>
    <LockMode>F</LockMode>
    <IPAddress>10.108.6.94:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_INIT_LOCK_RESYNC_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Initialize lock dispatch state resynchronization key succeeded.
  </Description>
  </ResultRecord>
  <KeyInformation>
    <KeyID>0000006A3F4C</KeyID>
    <CanType>18</CanType>
  </KeyInformation>
  <LockRecord>
    <LockName>Gen2Swingbolt 1000116</LockName>
    <RecordType>A</RecordType>
    <StartDate>2013-11-25T18:40:52.927Z</StartDate>
    <LastUsedDate>2015-04-22T14:22:35.41Z</LastUsedDate>
    <CustomerNumber>532188</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000116</SerialNumber>
    <AuditCount>8</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>true</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>9216</Seal>
    <PreviousSeal>12800</PreviousSeal>
    <RouteSeal1>9216</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>14776</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>198835</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>359709</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1/>
    <Description2/>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber/>
    <UserDefined1/>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>>false</IfLastRoute3Issued>
    <User1ID1>FLM SHA Key 4</User1ID1>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
```



```

<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>MHG\LTALL</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2015-04-22T14:21:45.237Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-22T14:22:35.41Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 4</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2015-04-21T20:14:23.663Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2015-04-21T20:22:47.033Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus>resync</LockDispatchStatus>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_INIT_LOCK_RESYNC_KEY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran initialize lock resynchronization key transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example initializes a lock resynchronization key through a remote keybox agent network connection:

10.108.6.94:53003

The lock being resynchronized is identified by lock serial number and mode.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/init_resync_key
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/init_resync_key
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : null ,
  "communicationsMethodField" : 0 ,
  "dispatcherIDField" : null ,
  "iPAddressField" : "10.108.6.94:53003" ,
  "itemElementNameField" : 1 ,
  "itemField" : "1000116" ,
  "lockModeField" : 0
}
```

Example Output Transaction - JSON:

```
{
  "keyInformationField" :
  {
    "canTypeField" :
    [
      24
    ] ,
    "keyIDField" :
    [
      0 ,
      0 ,
      0 ,
      106 ,
      63 ,
      76
    ]
  } ,
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : "" ,
    "auditCountField" : "11" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : "\/Date(1429723606193)\/" ,
    "closeTime2Field" : null ,
  }
}
```

```

"closeTime3Field" : null ,
"countryField" : "USA" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "532188" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "MHG\\LSTALL" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : true ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "353836" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "26705" ,
"lastUsedDateField" : "\\Date(1429723606193)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "resync" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2Swingbolt 1000116" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\\Date(1429723592647)\" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\\Date(1429723583940)\" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "359709" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\\Date(1429723576733)\" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "14776" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "14776" ,
"previousUser1ID1Field" : "FIM SHA Key 4" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "38990" ,

```

```

        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "38990" ,
        "serialNumberField" : "001000116" ,
        "serviceBranchField" : "North Branch" ,
        "startDateField" : "\/Date(1385404852927)\/" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "FLM SHA Key 4" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : "40508"
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Initialize lock dispatch state resynchronization key succeeded."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_INIT_LOCK_RESYNC_KEYField" :
    {
        "communicationsIDField" : null ,
        "communicationsMethodField" : 0 ,
        "dispatcherIDField" : "CentranSS" ,
        "iPAddressField" : "10.108.6.94:53003" ,
        "itemElementNameField" : 1 ,
        "itemField" : "1000116" ,
        "lockModeField" : 0
    }
}

```

3.2.30 Web Service Lock Transactions - Read Lock Dispatch State Resynchronization Key

CenTran Programming Reference Manual

This transaction is used to read information for reporting purposes from a lock dispatch state resynchronization key.

Transaction information required:

- **IP Address and Port** - Specifies the keybox to connect to from CenTran to read the key from.
- **Communications ID** - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- **Communications Method** - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Input transaction
- Result record indicating success
- Key serial number information
- If key was used at lock: Lock Last Open Date
- If key was used at lock: First User To Last Open Lock
- If key was used at lock and lock requires dual access: Second User To Last Open Lock
- Matching Lock Record From Cencon Database

Refer to the documentation for [Section 2.2.5 Read Lock Data](#) for details on the lock record data returned.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- The key in the keybox reader slot is not a lock resynchronization key.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example - Success (Key Not Used At Lock)

The lock resynchronization key was not used at the lock yet.

The remote keybox was connected to using a direct IP address.

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/read_resync_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/read_resync_key
```

Example Input Transaction: (HTTP Body)

```

<TRANSACTION_READ_LOCK_RESYNC_KEY>
  <IPAddress>10.108.6.94:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_READ_LOCK_RESYNC_KEY>

```

Example Output Transaction:

```

<RESPONSE_READ_LOCK_RESYNC_KEY>
  <TRANSACTION_READ_LOCK_RESYNC_KEY>
    <IPAddress>10.108.6.94:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK_RESYNC_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Read of lock resynchronization key succeeded.</Description>
  </ResultRecord>
  <KeyInformation>
    <KeyID>0000006A3F4C</KeyID>
    <CanType>18</CanType>
  </KeyInformation>
  <LockRecord>
    <LockName>Gen2Swingbolt 1000116</LockName>
    <RecordType>A</RecordType>
    <StartDate>2013-11-25T18:40:52.927Z</StartDate>
    <LastUsedDate>2015-04-22T14:22:35.41Z</LastUsedDate>
    <CustomerNumber>532188</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000116</SerialNumber>
    <AuditCount>8</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>true</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>9216</Seal>
    <PreviousSeal>12800</PreviousSeal>
    <RouteSeal1>9216</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>14776</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>198835</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>359709</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1/>
    <Description2/>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber/>
    <UserDefined1/>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>>false</IfLastRoute3Issued>
    <User1ID1>FLM SHA Key 4</User1ID1>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>

```

```

<RouteName3/>
<DispatcherID1>MHG\LSTALL</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2015-04-22T14:21:45.237Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-22T14:22:35.41Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 4</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2015-04-21T20:14:23.663Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2015-04-21T20:22:47.033Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus>resync</LockDispatchStatus>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_READ_LOCK_RESYNC_KEY>

```

Example - Success (Key Was Used At Lock)

The lock resynchronization key was used at the lock successfully. The lock was last opened by a single user (single user mode).

The remote keybox was connected to using a communications ID for a persistent network connection from the Cencon Keybox Agent service.

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/read_resync_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/read_resync_key
```

Example Input Transaction: (HTTP Body)

```

<TRANSACTION_READ_LOCK_RESYNC_KEY>
  <IPAddress/>
  <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
  <CommunicationsMethod>TcpClient</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_READ_LOCK_RESYNC_KEY>

```

Example Output Transaction:

```

<RESPONSE_READ_LOCK_RESYNC_KEY>
  <TRANSACTION_READ_LOCK_RESYNC_KEY>

```



```

<IPAddress/>
<CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
<CommunicationsMethod>TcpClient</CommunicationsMethod>
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_READ_LOCK_RESYNC_KEY>
<ResultRecord>
  <Result>Success</Result>
  <ErrorCode>RC_OK</ErrorCode>
  <IfRetryValid>false</IfRetryValid>
  <Description>Read of lock resynchronization key succeeded.</Description>
</ResultRecord>
<KeyInformation>
  <KeyID>0000006A3F4C</KeyID>
  <CanType>18</CanType>
</KeyInformation>
<LockOpenDateTime>2015-04-22T14:23:08Z</LockOpenDateTime>
<FirstUserToOpen>
  <UserID>FLM SHA Key 4</UserID>
  <SecurityLevel>1</SecurityLevel>
  <KeyID>0000006A71AC</KeyID>
  <CanType>18</CanType>
  <NumberCombosIssued>1</NumberCombosIssued>
  <CreationDate>2013-04-23T17:33:15.113Z</CreationDate>
  <DeletionDate/>
  <Nickname/>
  <NicknameExpirationDate/>
  <GroupName/>
  <NumberTimeWindows>0</NumberTimeWindows>
  <Window1Start>0</Window1Start>
  <Window1Duration>0</Window1Duration>
  <IfWindow1Sun>false</IfWindow1Sun>
  <IfWindow1Mon>false</IfWindow1Mon>
  <IfWindow1Tue>false</IfWindow1Tue>
  <IfWindow1Wed>false</IfWindow1Wed>
  <IfWindow1Thu>false</IfWindow1Thu>
  <IfWindow1Fri>false</IfWindow1Fri>
  <IfWindow1Sat>false</IfWindow1Sat>
  <Window2Start>0</Window2Start>
  <Window2Duration>0</Window2Duration>
  <IfWindow2Sun>false</IfWindow2Sun>
  <IfWindow2Mon>false</IfWindow2Mon>
  <IfWindow2Tue>false</IfWindow2Tue>
  <IfWindow2Wed>false</IfWindow2Wed>
  <IfWindow2Thu>false</IfWindow2Thu>
  <IfWindow2Fri>false</IfWindow2Fri>
  <IfWindow2Sat>false</IfWindow2Sat>
  <Window3Start>0</Window3Start>
  <Window3Duration>0</Window3Duration>
  <IfWindow3Sun>false</IfWindow3Sun>
  <IfWindow3Mon>false</IfWindow3Mon>
  <IfWindow3Tue>false</IfWindow3Tue>
  <IfWindow3Wed>false</IfWindow3Wed>
  <IfWindow3Thu>false</IfWindow3Thu>
  <IfWindow3Fri>false</IfWindow3Fri>
  <IfWindow3Sat>false</IfWindow3Sat>
  <Region>KENTUCKY</Region>
  <ServiceBranch/>
  <FirstName/>
  <MiddleName/>
  <LastName/>
  <LastUsedDate>2015-04-22T17:26:46.193Z</LastUsedDate>
  <AuthorizationRole>FLM</AuthorizationRole>
  <BankUserID>0</BankUserID>
  <TotalNumberCombosIssued>108</TotalNumberCombosIssued>
  <MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
  <EnabledStartDate/>
  <EnabledEndDate/>
  <BankBranchName/>
  <CustomerID>North Bank</CustomerID>
  <UserCombo>0</UserCombo>
  <IfMustChangeCombo>true</IfMustChangeCombo>
  <IfLegacyImport>false</IfLegacyImport>
</FirstUserToOpen>
<LockRecord>
  <LockName>Gen2Swingbolt 1000116</LockName>
  <RecordType>A</RecordType>
  <StartDate>2013-11-25T18:40:52.927Z</StartDate>
  <LastUsedDate>2015-04-22T17:26:46.193Z</LastUsedDate>
  <CustomerNumber>532188</CustomerNumber>
  <LockMode>F</LockMode>
  <IfDualMode>false</IfDualMode>
  <SerialNumber>001000116</SerialNumber>
  <AuditCount>11</AuditCount>
  <IfLockOpen>false</IfLockOpen>
  <IfForcedClosed>true</IfForcedClosed>
  <IfRoute1Issued>false</IfRoute1Issued>
  <IfRoute2Issued>false</IfRoute2Issued>
  <IfRoute3Issued>false</IfRoute3Issued>
  <IfNoAlarm>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
  <Seal>38990</Seal>
  <PreviousSeal>14776</PreviousSeal>
  <RouteSeal1>38990</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>

```

```

<PreviousRouteSeal1>14776</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>353836</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>359709</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber/>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>FLM SHA Key 4</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>MHG\LSTALL</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2015-04-22T17:26:32.647Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-22T17:26:46.193Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 4</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2015-04-22T17:26:16.733Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2015-04-22T17:26:23.94Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus>resync</LockDispatchStatus>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>

```

```
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_READ_LOCK_RESYNC_KEY>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran initialize lock SA key for audit download transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

Example

The lock resynchronization key was used at the lock successfully. The lock was last opened by a single user (single user mode).

The remote keybox was connected to using a communications ID for a persistent network connection from the Cencon Keybox Agent service.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/read_resync_key
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/read_resync_key
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
```

```

    "iPasswordField" : null
}

```

Example Output Transaction - JSON:

```

{
  "firstUserToOpenField" :
  {
    "authorizationRoleField" : "FLM" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "canTypeField" :
    [
      24
    ] ,
    "creationDateField" : "\/Date(1366738395113)\/" ,
    "customerIDField" : "North Bank" ,
    "deletionDateField" : null ,
    "enabledEndDateField" : null ,
    "enabledStartDateField" : null ,
    "firstNameField" : "" ,
    "groupNameField" : "" ,
    "ifLegacyImportField" : false ,
    "ifMustChangeComboField" : true ,
    "ifWindow1FriField" : false ,
    "ifWindow1MonField" : false ,
    "ifWindow1SatField" : false ,
    "ifWindow1SunField" : false ,
    "ifWindow1ThuField" : false ,
    "ifWindow1TueField" : false ,
    "ifWindow1WedField" : false ,
    "ifWindow2FriField" : false ,
    "ifWindow2MonField" : false ,
    "ifWindow2SatField" : false ,
    "ifWindow2SunField" : false ,
    "ifWindow2ThuField" : false ,
    "ifWindow2TueField" : false ,
    "ifWindow2WedField" : false ,
    "ifWindow3FriField" : false ,
    "ifWindow3MonField" : false ,
    "ifWindow3SatField" : false ,
    "ifWindow3SunField" : false ,
    "ifWindow3ThuField" : false ,
    "ifWindow3TueField" : false ,
    "ifWindow3WedField" : false ,
    "keyIDField" :
    [
      0 ,
      0 ,
      0 ,
      106 ,
      113 ,
      172
    ] ,
    "lastNameField" : "" ,
    "lastUsedDateField" : "\/Date(1429723606193)\/" ,
    "maximumNumberAllowedCombosField" : "0" ,
    "middleNameField" : "" ,
    "nicknameExpirationDateField" : null ,
    "nicknameField" : "" ,
    "numberCombosIssuedField" : "1" ,
    "numberTimeWindowsField" : "0" ,
    "regionField" : "KENTUCKY" ,
    "securityLevelField" : "1" ,
    "serviceBranchField" : "" ,
    "totalNumberCombosIssuedField" : "108" ,
    "userComboField" : "0" ,
    "userIDField" : "FLM SHA Key 4" ,
    "window1DurationField" : "0" ,
    "window1StartField" : "0" ,
    "window2DurationField" : "0" ,
    "window2StartField" : "0" ,
    "window3DurationField" : "0" ,
    "window3StartField" : "0"
  } ,
  "keyInformationField" :
  {
    "canTypeField" :
    [
      24
    ] ,
    "keyIDField" :
    [
      0 ,
      0 ,
      0 ,
      106 ,
      63 ,
      76
    ]
  }
}

```

```

"lockOpenDateTimeField" : "\Date(1429712588000)\/" ,
"lockOpenDateTimeFieldSpecified" : true ,
"lockRecordField" :
{
    "aTMSerialNumberField" : "" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : "" ,
    "auditCountField" : "11" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : "\Date(1429723606193)\/" ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "532188" ,
    "description1Field" : "" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "MHG\LSTALL" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : "" ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : false ,
    "ifForcedClosedField" : true ,
    "ifLastRoute1IssuedField" : false ,
    "ifLastRoute2IssuedField" : false ,
    "ifLastRoute3IssuedField" : false ,
    "ifLegacyImportField" : false ,
    "ifLockOpenField" : false ,
    "ifNoAlarmField" : false ,
    "ifPreviousRoute1IssuedField" : false ,
    "ifPreviousRoute2IssuedField" : false ,
    "ifPreviousRoute3IssuedField" : false ,
    "ifRoute1IssuedField" : false ,
    "ifRoute2IssuedField" : false ,
    "ifRoute3IssuedField" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifUnassignedOpenCallField" : false ,
    "issuedComboUser1Seq1Field" : "353836" ,
    "issuedComboUser1Seq2Field" : "0" ,
    "issuedComboUser1Seq3Field" : "0" ,
    "issuedComboUser2Seq1Field" : "0" ,
    "issuedComboUser2Seq2Field" : "0" ,
    "issuedComboUser2Seq3Field" : "0" ,
    "keyCloseSealField" : "26705" ,
    "lastUsedDateField" : "\Date(1429723606193)\/" ,
    "lockActivationStatusField" : "gen2" ,
    "lockDispatchStatusField" : "resync" ,
    "lockHardwareModelField" : "" ,
    "lockModeField" : 0 ,
    "lockNameField" : "Gen2Swingbolt 1000116" ,
    "lowBatteryDateField" : null ,
    "networkAddressField" : "0.0.0.0" ,
    "networkPortField" : "0" ,
    "openTime1Field" : "\Date(1429723592647)\/" ,
    "openTime2Field" : null ,
    "openTime3Field" : null ,
    "openTries1Field" : "0" ,
    "openTries2Field" : "0" ,
    "openTries3Field" : "0" ,
    "originalSerialNumberField" : "000000" ,
    "previousCloseTime1Field" : "\Date(1429723583940)\/" ,
    "previousCloseTime2Field" : null ,
    "previousCloseTime3Field" : null ,
    "previousComboUser1Seq1Field" : "359709" ,
    "previousComboUser1Seq2Field" : "0" ,
    "previousComboUser1Seq3Field" : "0" ,
    "previousComboUser2Seq1Field" : "0" ,
    "previousComboUser2Seq2Field" : "0" ,
    "previousComboUser2Seq3Field" : "0" ,
    "previousOpenTime1Field" : "\Date(1429723576733)\/" ,
    "previousOpenTime2Field" : null ,
    "previousOpenTime3Field" : null ,
    "previousRouteName1Field" : "" ,
    "previousRouteName2Field" : "" ,
    "previousRouteName3Field" : "" ,

```

```

        "previousRouteSeal1Field" : "14776" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "14776" ,
        "previousUser1ID1Field" : "FLM SHA Key 4" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "38990" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "38990" ,
        "serialNumberField" : "001000116" ,
        "serviceBranchField" : "North Branch" ,
        "startDateField" : "\\Date(1385404852927) \\/" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "FLM SHA Key 4" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : "40508"
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Read of lock resynchronization key succeeded."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "secondUserToOpenField" : null ,
    "tTRANSACTION_READ_LOCK_RESYNC_KEYField" :
    {
        "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
        "communicationsMethodField" : 1 ,
        "dispatcherIDField" : "CentranSS" ,
        "iPAddressField" : null
    }
}

```

3.2.31 Web Service Lock Transactions - Resynchronize Lock Dispatch State With Key

CenTran Programming Reference Manual

This transaction is used to resynchronize the dispatch state stored for a lock in the Cencon database, using security data read from a lock resynchronization key that had been used at the lock.

Transaction information required:

- **IP Address and Port** - Specifies the keybox to connect to from CenTran to read the key from.
- **Communications ID** - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- **Communications Method** - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Input transaction
- Result record indicating success
- Key serial number information
- Original lock record from before the resynchronization operation.
- Result lock record from after the resynchronization operation.

OriginalLockRecord / ResultLockRecord:

Refer to the documentation for [Section 2.2.5 Read Lock Data](#) for details on the lock record data returned.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- The key in the keybox reader slot is not a lock resynchronization key.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/resync_with_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/resync_with_key
```

Example Input Transaction: (HTTP Body)


```

<TRANSACTION_RESYNC_LOCK_WITH_KEY>
  <IPAddress>10.108.6.94:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_RESYNC_LOCK_WITH_KEY>

```

Example Output Transaction:

```

<RESPONSE_RESYNC_LOCK_WITH_KEY>
  <TRANSACTION_RESYNC_LOCK_WITH_KEY>
    <IPAddress>10.108.6.94:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_RESYNC_LOCK_WITH_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock dispatch state resynchronization with key succeeded.</Description>
  </ResultRecord>
  <KeyInformation>
    <KeyID>0000006A3F4C</KeyID>
    <CanType>18</CanType>
  </KeyInformation>
  <OriginalLockRecord>
    <LockName>Gen2Swingbolt 1000116</LockName>
    <RecordType>A</RecordType>
    <StartDate>2013-11-25T18:40:52.927Z</StartDate>
    <LastUsedDate>2015-04-22T17:47:10.57Z</LastUsedDate>
    <CustomerNumber>532188</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>true</IfDualMode>
    <SerialNumber>001000116</SerialNumber>
    <AuditCount>10</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>true</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>14776</Seal>
    <PreviousSeal>9278</PreviousSeal>
    <RouteSeal1>14776</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>9278</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>359709</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>159301</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>953569</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1/>
    <Description2/>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber/>
    <UserDefined1/>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>>false</IfLastRoute3Issued>
    <User1ID1>FLM SHA Key 4</User1ID1>
    <User1ID2/>
    <User1ID3/>
    <User2ID1>FLM SHA Key 6</User2ID1>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>
    <RouteName3/>

```

```
<DispatcherID1>MHG\LSTALL</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2015-04-22T17:45:46.937Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-22T17:47:10.57Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 4</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2015-04-22T17:42:57.537Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2015-04-22T17:44:10.53Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus>resync</LockDispatchStatus>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</OriginalLockRecord>
<ResultLockRecord>
  <LockName>Gen2Swingbolt 1000116</LockName>
  <RecordType>A</RecordType>
  <StartDate>2013-11-25T18:40:52.927Z</StartDate>
  <LastUsedDate>2015-04-22T17:47:10.57Z</LastUsedDate>
  <CustomerNumber>532188</CustomerNumber>
  <LockMode>F</LockMode>
  <IfDualMode>true</IfDualMode>
  <SerialNumber>001000116</SerialNumber>
  <AuditCount>10</AuditCount>
  <IfLockOpen>>false</IfLockOpen>
  <IfForcedClosed>true</IfForcedClosed>
  <IfRoute1Issued>>false</IfRoute1Issued>
  <IfRoute2Issued>>false</IfRoute2Issued>
  <IfRoute3Issued>>false</IfRoute3Issued>
  <IfNoAlarm>>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
  <Seal>14776</Seal>
  <PreviousSeal>9278</PreviousSeal>
  <RouteSeal1>14776</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>9278</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>359709</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>159301</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>953569</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
```

```

<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber/>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>FLM SHA Key 4</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1>FLM SHA Key 6</User2ID1>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>MHG\LSTALL</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2015-04-22T17:45:46.937Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-22T17:47:10.57Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 4</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2015-04-22T17:42:57.537Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2015-04-22T17:44:10.53Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</ResultLockRecord>
</RESPONSE_RESYNC_LOCK_WITH_KEY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field

name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran resynchronize lock with key transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

Example

This example reads the key to resynchronize the matching lock through a remote keybox agent persistent network connection identified by Cencon Keybox serial number: **01E164991400008B**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/resync_with_key
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/resync_with_key
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "iPAddressField" : null
}
```

Example Output Transaction - JSON:

```
{
  "keyInformationField" :
  {
    "canTypeField" :
    [
      24
    ] ,
    "keyIDField" :
    [
      0 ,
      0 ,
      0 ,
      106 ,
      63 ,
      76
    ]
  }
}
```

```

    ]
},
"originalLockRecordField" :
{
    "aTMSerialNumberField" : "",
    "address1Field" : "749 W. Short St.",
    "address2Field" : "",
    "auditCountField" : "11",
    "bankBranchNameField" : "",
    "bankModeUserNameArrayField" : null,
    "bankOpenDelayField" : "0",
    "bankOpenWindowField" : "0",
    "cityField" : "Lexington",
    "closeSealLengthField" : "4",
    "closeTime1Field" : "\/Date(1429723606193)\/",
    "closeTime2Field" : null,
    "closeTime3Field" : null,
    "countryField" : "USA",
    "customerIDField" : "North Bank",
    "customerNumberField" : "532188",
    "description1Field" : "",
    "description2Field" : "",
    "description3Field" : "",
    "description4Field" : "",
    "dispatcherID1Field" : "MHG\\LSTALL",
    "dispatcherID2Field" : "",
    "dispatcherID3Field" : "",
    "displayIssuedComboUser1Seq1Field" : "",
    "displayIssuedComboUser1Seq2Field" : "",
    "displayIssuedComboUser1Seq3Field" : "",
    "displayIssuedComboUser2Seq1Field" : "",
    "displayIssuedComboUser2Seq2Field" : "",
    "displayIssuedComboUser2Seq3Field" : "",
    "duressDateField" : null,
    "groupNameField" : "",
    "ifActivationCallField" : false,
    "ifDualModeField" : false,
    "ifForcedClosedField" : true,
    "ifLastRoute1IssuedField" : false,
    "ifLastRoute2IssuedField" : false,
    "ifLastRoute3IssuedField" : false,
    "ifLegacyImportField" : false,
    "ifLockOpenField" : false,
    "ifNoAlarmField" : false,
    "ifPreviousRoute1IssuedField" : false,
    "ifPreviousRoute2IssuedField" : false,
    "ifPreviousRoute3IssuedField" : false,
    "ifRoute1IssuedField" : false,
    "ifRoute2IssuedField" : false,
    "ifRoute3IssuedField" : false,
    "ifSecondLineMaintenanceCallField" : false,
    "ifUnassignedOpenCallField" : false,
    "issuedComboUser1Seq1Field" : "353836",
    "issuedComboUser1Seq2Field" : "0",
    "issuedComboUser1Seq3Field" : "0",
    "issuedComboUser2Seq1Field" : "0",
    "issuedComboUser2Seq2Field" : "0",
    "issuedComboUser2Seq3Field" : "0",
    "keyCloseSealField" : "26705",
    "lastUsedDateField" : "\/Date(1429723606193)\/",
    "lockActivationStatusField" : "gen2",
    "lockDispatchStatusField" : "resync",
    "lockHardwareModelField" : "",
    "lockModeField" : 0,
    "lockNameField" : "Gen2Swingbolt 1000116",
    "lowBatteryDateField" : null,
    "networkAddressField" : "0.0.0.0",
    "networkPortField" : "0",
    "openTime1Field" : "\/Date(1429723592647)\/",
    "openTime2Field" : null,
    "openTime3Field" : null,
    "openTries1Field" : "0",
    "openTries2Field" : "0",
    "openTries3Field" : "0",
    "originalSerialNumberField" : "000000",
    "previousCloseTime1Field" : "\/Date(1429723583940)\/",
    "previousCloseTime2Field" : null,
    "previousCloseTime3Field" : null,
    "previousComboUser1Seq1Field" : "359709",
    "previousComboUser1Seq2Field" : "0",
    "previousComboUser1Seq3Field" : "0",
    "previousComboUser2Seq1Field" : "0",
    "previousComboUser2Seq2Field" : "0",
    "previousComboUser2Seq3Field" : "0",
    "previousOpenTime1Field" : "\/Date(1429723576733)\/",
    "previousOpenTime2Field" : null,
    "previousOpenTime3Field" : null,
    "previousRouteName1Field" : "",
    "previousRouteName2Field" : "",
    "previousRouteName3Field" : ""
}

```

```

"previousRouteSeal1Field" : "14776" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "14776" ,
"previousUser1ID1Field" : "FLM SHA Key 4" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "38990" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "38990" ,
"serialNumberField" : "001000116" ,
"serviceBranchField" : "North Branch" ,
"startDateField" : "\Date(1385404852927)\" ,
"stateField" : "KY" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "FLM SHA Key 4" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zIPField" : "40508"
} ,
"resultLockRecordField" :
{
    "aTMSerialNumberField" : "" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : "" ,
    "auditCountField" : "8" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : "\Date(1429723606193)\" ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "532188" ,
    "description1Field" : "" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "MHG\LSTALL" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : "" ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : false ,
    "ifForcedClosedField" : true ,
    "ifLastRoute1IssuedField" : false ,
    "ifLastRoute2IssuedField" : false ,
    "ifLastRoute3IssuedField" : false ,
    "ifLegacyImportField" : false ,
    "ifLockOpenField" : false ,
    "ifNoAlarmField" : false ,
    "ifPreviousRoute1IssuedField" : false ,
    "ifPreviousRoute2IssuedField" : false ,
    "ifPreviousRoute3IssuedField" : false ,
    "ifRoute1IssuedField" : false ,
    "ifRoute2IssuedField" : false ,
    "ifRoute3IssuedField" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifUnassignedOpenCallField" : false ,
    "issuedComboUser1Seq1Field" : "353836" ,
    "issuedComboUser1Seq2Field" : "0" ,
    "issuedComboUser1Seq3Field" : "0" ,

```

```

"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "26705" ,
"lastUsedDateField" : "\/Date(1429723606193)\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2Swingbolt 1000116" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1429723592647)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\/Date(1429723583940)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "359709" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\/Date(1429723576733)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "14776" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "14776" ,
"previousUser1ID1Field" : "FLM SHA Key 4" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "38990" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "9216" ,
"serialNumberField" : "001000116" ,
"serviceBranchField" : "North Branch" ,
"startDateField" : "\/Date(1385404852927)\/" ,
"stateField" : "KY" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "FLM SHA Key 4" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zipField" : "40508"
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Lock dispatch state resynchronization with key succeeded."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_RESYNC_LOCK_WITH_KEYField" :
{
    "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "ipAddressField" : null
}
}

```


3.2.32 Web Service Lock Transactions - Cancel Lock Dispatch State Resynchronization

CenTran Programming Reference Manual

This transaction cancels the process of resynchronizing a Cencon database entry for a lock mode with a Cencon Gen 2 Lock dispatch state. This transaction can be used if the resynchronization key to be used at the lock was lost or the lock was found not to be out of sync.

After canceling the resynchronization of the lock, the lock is restored to its normal dispatch state. A new resynchronization key can be made or the lock can be dispatched as normal.

Transaction information required:

- Lock Name or Serial Number - The name or serial number of the lock to cancel resynchronization.
- Lock Mode - The mode of the lock to cancel resynchronization.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the lock record.

Refer to the documentation for [Section 2.2.5 Read Lock Data](#) for details on the lock record data returned.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Lock doesn't exist.
- Lock mode is not in process of being resynchronized.
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.

Example - Success - Cancel Resynchronization By Lock Name

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/cancel_resync
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/cancel_resync
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_CANCEL_LOCK_RESYNC>
  <LockName>Gen2Swingbolt 1000116</LockName>
  <LockMode>F</LockMode>
  <DispatcherID/>
</TRANSACTION_CANCEL_LOCK_RESYNC>
```

Example Output Transaction:

```
<RESPONSE_CANCEL_LOCK_RESYNC>
  <TRANSACTION_CANCEL_LOCK_RESYNC>
    <LockName>Gen2Swingbolt 1000116</LockName>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CANCEL_LOCK_RESYNC>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Cancel of lock dispatch state resynchronization succeeded.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Swingbolt 1000116</LockName>
    <RecordType>A</RecordType>
    <StartDate>2013-11-25T18:40:52.927Z</StartDate>
    <LastUsedDate>2015-04-22T14:22:35.41Z</LastUsedDate>
    <CustomerNumber>532188</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>001000116</SerialNumber>
    <AuditCount>8</AuditCount>
    <IfLockOpen>false</IfLockOpen>
    <IfForcedClosed>true</IfForcedClosed>
    <IfRoute1Issued>false</IfRoute1Issued>
    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
```

```
<IfNoAlarm>false</IfNoAlarm>
<IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
<IfActivationCall>false</IfActivationCall>
<IfUnassignedOpenCall>false</IfUnassignedOpenCall>
<Seal>9216</Seal>
<PreviousSeal>12800</PreviousSeal>
<RouteSeal1>9216</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>14776</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>198835</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>359709</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber/>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>false</IfLastRoute1Issued>
<IfLastRoute2Issued>false</IfLastRoute2Issued>
<IfLastRoute3Issued>false</IfLastRoute3Issued>
<User1ID1>FLM SHA Key 4</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>MHG\LSTALL</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2015-04-22T14:21:45.237Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-22T14:22:35.41Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 4</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2015-04-21T20:14:23.663Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2015-04-21T20:22:47.033Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
```

```

<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_CANCEL_LOCK_RESYNC>

```

Example - Success - Cancel Resynchronization By Lock Serial Number

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/cancel_resync
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/cancel_resync
```

Example Input Transaction: (HTTP Body)

```

<TRANSACTION_CANCEL_LOCK_RESYNC>
  <SerialNumber>1000116</SerialNumber>
  <LockMode>F</LockMode>
  <DispatcherID/>
</TRANSACTION_CANCEL_LOCK_RESYNC>

```

Example Output Transaction:

```

<RESPONSE_CANCEL_LOCK_RESYNC>
  <TRANSACTION_CANCEL_LOCK_RESYNC>
    <SerialNumber>1000116</SerialNumber>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CANCEL_LOCK_RESYNC>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Cancel of lock dispatch state resynchronization succeeded.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Swingbolt 1000116</LockName>
    <RecordType>A</RecordType>
    <StartDate>2013-11-25T18:40:52.927Z</StartDate>
    <LastUsedDate>2015-04-22T14:22:35.41Z</LastUsedDate>
    <CustomerNumber>532188</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>001000116</SerialNumber>
    <AuditCount>8</AuditCount>
    <IfLockOpen>false</IfLockOpen>
    <IfForcedClosed>true</IfForcedClosed>
    <IfRoute1Issued>false</IfRoute1Issued>
    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
    <Seal>9216</Seal>
    <PreviousSeal>12800</PreviousSeal>
    <RouteSeal1>9216</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>14776</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>198835</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>359709</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>

```

```

<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber/>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1>FLM SHA Key 4</User1ID1>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1>MHG\LSTALL</DispatcherID1>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1>2015-04-22T14:21:45.237Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2015-04-22T14:22:35.41Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>FLM SHA Key 4</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2015-04-21T20:14:23.663Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2015-04-21T20:22:47.033Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Branch</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>26705</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_CANCEL_LOCK_RESYNC>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field

name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran Cancel Lock Dispatch State Resynchronization transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example Using JSON - Success - Cancel Resynchronization By Lock Name

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/cancel_resync
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/cancel_resync
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "itemElementNameField" : 0 ,
  "itemField" : "Gen2Swingbolt 1000116" ,
  "lockModeField" : 0
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : "" ,
    "auditCountField" : "11" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : "\Date(1429723606193)\\" ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA" ,
  }
}
```

```

"customerIDField" : "North Bank" ,
"customerNumberField" : "532188" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "MHG\\LSTALL" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : true ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "353836" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "26705" ,
"lastUsedDateField" : "\\Date(1429723606193)\\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2Swingbolt 1000116" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\\Date(1429723592647)\\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\\Date(1429723583940)\\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "359709" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\\Date(1429723576733)\\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "14776" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "14776" ,
"previousUser1ID1Field" : "FLM SHA Key 4" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "38990" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,

```

```

        "sealField" : "38990" ,
        "serialNumberField" : "001000116" ,
        "serviceBranchField" : "North Branch" ,
        "startDateField" : "\/Date(1385404852927)\/" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "FLM SHA Key 4" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : "40508"
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Cancel of lock dispatch state resynchronization succeeded."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_CANCEL_LOCK_RESYNCFIELD" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "itemElementNameField" : 0 ,
        "itemField" : "Gen2Swingbolt 1000116" ,
        "lockModeField" : 0
    }
}

```

Example Using JSON - Success - Cancel Resynchronization By Lock Serial Number

Input Transaction Format (HTTP Post) - JSON:

https://{host}/CentranServiceJSON/rest/lock/cancel_resync

Example Input Transaction (HTTP Post) - JSON:

https://kml-3242.domain.local/CentranServiceJSON/rest/lock/cancel_resync

Example Input Transaction (HTTP Body) - JSON:

```

{
    "dispatcherIDField" : null ,
    "itemElementNameField" : 1 ,
    "itemField" : "1000116" ,
    "lockModeField" : 0
}

```

Example Output Transaction - JSON:

```

{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "749 W. Short St." ,
        "address2Field" : "" ,
        "auditCountField" : "11" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" : null ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "Lexington" ,
        "closeSealLengthField" : "4" ,
        "closeTime1Field" : "\/Date(1429723606193)\/" ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "USA" ,
        "customerIDField" : "North Bank" ,
        "customerNumberField" : "532188" ,
        "description1Field" : "" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "MHG\\LSTALL" ,
        "dispatcherID2Field" : "" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "" ,

```

```

"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : true ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "353836" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "26705" ,
"lastUsedDateField" : "\/Date(1429723606193)\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2Swingbolt 1000116" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1429723592647)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\/Date(1429723583940)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "359709" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\/Date(1429723576733)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "14776" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "14776" ,
"previousUser1ID1Field" : "FLM SHA Key 4" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "38990" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "38990" ,
"serialNumberField" : "001000116" ,
"serviceBranchField" : "North Branch" ,
"startDateField" : "\/Date(1385404852927)\/" ,
"stateField" : "KY" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "FLM SHA Key 4" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,

```



```

        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : "40508"
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Cancel of lock dispatch state resynchronization succeeded."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_CANCEL_LOCK_RESYNCFIELD" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "itemElementNameField" : 1 ,
        "itemField" : "1000116" ,
        "lockModeField" : 0
    }
}

```

3.2.33 Web Service Lock Transactions - Initialize Lock Time Set Key

CenTran Programming Reference Manual

This transaction is used to initialize a lock time set key in the specified Cencon keybox. A white hour glass shaped key, iButton model DS1922, is required.

Transaction information required:

- Time Zone ID (Optional)- Unique Identifier for the time zone to use for generating the daylight savings time table to be written to the key.

The lock time set key sets the time at the lock and also updates the daylight savings time transition table on the lock. This daylight savings time transition table is generated based on the specified time zone. If a time zone is not specified, then the CenTran server time zone is used.

The lock time set key contains a table of 40 entries sufficient for 20 years of daylight savings times transitions. Each lock mode of the Cencon lock uses this table to convert from the lock clock in UTC (Coordinated Universal Time) to the current local time.

- IP Address and Port - Specifies the keybox to connect to from CenTran to initialize the key.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to initialize the key. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the key serial number information.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Incorrect model of key is present in the keybox reader slot.
- No key is present in the keybox reader slot.
- Invalid time zone specified.

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example - Success without specified time zone, using Cencon Keybox IP address:

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/init_time_set_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/init_time_set_key
```

Example Input Transaction: (HTTP Body)

```

<TRANSACTION_INIT_LOCK_TIME_SET_KEY>
  <IPAddress>10.108.6.94:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_INIT_LOCK_TIME_SET_KEY>

```

Example Output Transaction:

```

<RESPONSE_INIT_LOCK_TIME_SET_KEY>
  <TRANSACTION_INIT_LOCK_TIME_SET_KEY>
    <IPAddress>10.108.6.94:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_INIT_LOCK_TIME_SET_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Initialize lock time set key succeeded.</Description>
  </ResultRecord>
  <KeyInformation>
    <KeyID>00000000CCCA1</KeyID>
    <CanType>41</CanType>
  </KeyInformation>
</RESPONSE_INIT_LOCK_TIME_SET_KEY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran initialize lock time set key transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the IPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

Example

This example initializes a lock time set key using Vladivostok Standard Time through a remote keybox agent persistent connection: **KeyBoxSerialNumber:01E164991400008B**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/init_time_set_key
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/init_time_set_key
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
  "communicationsMethodField" : 1 ,
}
```

```

    "dispatcherIDField" : null ,
    "iPAddressField" : null ,
    "timeZoneIDField" : "Vladivostok Standard Time"
}

```

Example Output Transaction - JSON:

```

{
  "keyInformationField" :
  {
    "canTypeField" :
    [
      65
    ] ,
    "keyIDField" :
    [
      0 ,
      0 ,
      0 ,
      12 ,
      204 ,
      161
    ]
  } ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Initialize lock time set key succeeded."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_INIT_LOCK_TIME_SET_KEYField" :
  {
    "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "iPAddressField" : null ,
    "timeZoneIDField" : "Vladivostok Standard Time"
  }
}

```

3.2.34 Web Service Lock Transactions - Read Time Set Key

CenTran Programming Reference Manual

This transaction is used to read the lock time set key in the specified Cencon keybox. It returns the time set key clock time, server time for comparison, time time zone ID written to the key, and the daylight savings time transition table on the key.

Transaction information required:

- **IP Address and Port** - Specifies the keybox to connect to from CenTran to read the key from.
- **Communications ID** - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- **Communications Method** - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Input transaction
- Result record indicating success
- Key serial number and model information
- Time set key clock time (UTC)
- Server time for comparison (UTC)
- Measured time drift of the key from server time (Seconds)
- IfKeyClockIsEnabled flag indicating if the key clock is running correctly.
- Key time zone ID. Up to 64 character string in ASCII. The string stored on the key does not support internationalization.
- Array of up to 40 entries of daylight savings time transition records for the lock conversion to local time.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- The key in the keybox reader slot is not a lock time set key.
- No key is present in the keybox reader slot.
- The data on the key has been corrupted.

Daylight Savings Time Transition Record:

- **TransitionTime** - Specifies the time that transition takes affect for calculating local time from the lock clock UTC. The daylight savings time transition is used if the current lock clock UTC time is equal to or greater than the transition time, and the lock clock UTC time is less than the next entry transition time in the table.
- **TimeZoneBias** - Specifies an integer bias from UTC time in minutes for the local time zone daylight savings time, in minutes. This integer value can be positive or negative.

Note

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example - Success. Key is read using persistent network connection ID for keybox.

This example is reading a lock time set key initialized for the Vladivostok Standard Time zone, which has a fixed daylight savings time bias.

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/read_time_set_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/read_time_set_key
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_READ_LOCK_TIME_SET_KEY>
  <IPAddress/>
  <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
  <CommunicationsMethod>TcpClient</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_READ_LOCK_TIME_SET_KEY>
```

Example Output Transaction:

```
<RESPONSE_READ_LOCK_TIME_SET_KEY>
  <TRANSACTION_READ_LOCK_TIME_SET_KEY>
    <IPAddress/>
    <CommunicationsID>KeyBoxSerialNumber:01E164991400008B</CommunicationsID>
    <CommunicationsMethod>TcpClient</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK_TIME_SET_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Read of lock time set key succeeded.</Description>
  </ResultRecord>
  <KeyInformation>
    <KeyID>0000000CCCA1</KeyID>
    <CanType>41</CanType>
  </KeyInformation>
  <KeyDateTimeUTC>2015-04-21T15:14:52Z</KeyDateTimeUTC>
  <ServerDateTimeUTC>2015-04-21T15:14:55.081Z</ServerDateTimeUTC>
  <KeyTimeDriftSeconds>-3</KeyTimeDriftSeconds>
  <IfKeyClockIsEnabled>true</IfKeyClockIsEnabled>
  <KeyTimeZoneID>Vladivostok Standard Time</KeyTimeZoneID>
  <DaylightSavingsTimeTransitionRecord>
    <TransitionTime>2000-01-01T00:00:00Z</TransitionTime>
    <TimeZoneBias>600</TimeZoneBias>
  </DaylightSavingsTimeTransitionRecord>
</RESPONSE_READ_LOCK_TIME_SET_KEY>
```

Example - Success. The key is read using a direct network connection by IP address 10.108.6.94:53003 for the keybox.

This example is reading a lock time set key initialized for the China Standard Time zone, which has a fixed daylight savings time bias.

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/read_time_set_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/read_time_set_key
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_READ_LOCK_TIME_SET_KEY>
  <IPAddress>10.108.6.94:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_READ_LOCK_TIME_SET_KEY>
```

Example Output Transaction:

```
<RESPONSE_READ_LOCK_TIME_SET_KEY>
  <TRANSACTION_READ_LOCK_TIME_SET_KEY>
    <IPAddress>10.108.6.94:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCK_TIME_SET_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
```

```

<IfRetryValid>false</IfRetryValid>
<Description>Read of lock time set key succeeded.</Description>
</ResultRecord>
<KeyInformation>
  <KeyID>0000000CCCA1</KeyID>
  <CanType>41</CanType>
</KeyInformation>
<KeyDateTimeUTC>2015-04-21T15:33:18Z</KeyDateTimeUTC>
<ServerDateTimeUTC>2015-04-21T15:33:20.939Z</ServerDateTimeUTC>
<KeyTimeDriftSeconds>-2</KeyTimeDriftSeconds>
<IfKeyClockIsEnabled>true</IfKeyClockIsEnabled>
<KeyTimeZoneID>China Standard Time</KeyTimeZoneID>
<DaylightSavingsTimeTransitionRecord>
  <TransitionTime>2000-01-01T00:00:00Z</TransitionTime>
  <TimeZoneBias>480</TimeZoneBias>
</DaylightSavingsTimeTransitionRecord>
</RESPONSE_READ_LOCK_TIME_SET_KEY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read lock time set key transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

Example

This example reads a lock time set key through a remote keybox agent persistent network connection identified by Cencon Keybox serial number: **01E164991400008B**

The lock time set key is initialized for Eastern Standard Time zone, which has an annual change in daylight savings time bias.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/read_time_set_key
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/read_time_set_key
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "iPAddressField" : null
}

```

Example Output Transaction - JSON:

```

{
  "daylightSavingsTimeTransitionRecordField" :
  [
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\/Date(946684800000)\/"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\/Date(1425798000000)\/"
    } ,
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : "\/Date(1446357600000)\/"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\/Date(1457852400000)\/"
    } ,
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : "\/Date(1478412000000)\/"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\/Date(1489302000000)\/"
    } ,
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : "\/Date(1509861600000)\/"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\/Date(1520751600000)\/"
    } ,
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : "\/Date(1541311200000)\/"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\/Date(1552201200000)\/"
    } ,
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : "\/Date(1572760800000)\/"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\/Date(1583650800000)\/"
    } ,
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : "\/Date(1604210400000)\/"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\/Date(1615705200000)\/"
    } ,
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : "\/Date(1636264800000)\/"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\/Date(1647154800000)\/"
    } ,
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : "\/Date(1667714400000)\/"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\/Date(1678604400000)\/"
    } ,
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : "\/Date(1699164000000)\/"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\/Date(1710054000000)\/"
    } ,
    {
      "timeZoneBiasField" : "-300" ,
      "transitionTimeField" : "\/Date(1730613600000)\/"
    } ,
    {
      "timeZoneBiasField" : "-240" ,
      "transitionTimeField" : "\/Date(1741503600000)\/"
    }
  ]
}

```



```

    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1762063200000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1772953200000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1793512800000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1805007600000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1825567200000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1836457200000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1857016800000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1867906800000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1888466400000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1899356400000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1919916000000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1930806000000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1951365600000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1962860400000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(1983420000000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(1994310000000) \\/"
    },
    {
        "timeZoneBiasField" : "-300" ,
        "transitionTimeField" : "\\Date(2014869600000) \\/"
    },
    {
        "timeZoneBiasField" : "-240" ,
        "transitionTimeField" : "\\Date(2025759600000) \\/"
    }
},
    "ifKeyClockIsEnabledField" : true ,
    "ifKeyClockIsEnabledFieldSpecified" : true ,
    "keyDateTimeUTCField" : "\\Date(1429629743000) \\/" ,
    "keyDateTimeUTCFieldSpecified" : true ,
    "keyInformationField" :
    {
        "canTypeField" :
        [
            65
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            12 ,

```

```

        204 ,
        161
    ]
},
"keyTimeDriftSecondsField" : "-2" ,
"keyTimeZoneIDField" : "Eastern Standard Time" ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Read of lock time set key succeeded."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
},
"serverDateTimeUTCField" : "\/Date(1429629745170)\/" ,
"serverDateTimeUTCFieldSpecified" : true ,
"tTRANSACTION_READ_LOCK_TIME_SET_KEYField" :
{
    "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "iAddressField" : null
}
}

```

3.3.1 Web Service Route Transactions - Add a Route

CenTran Programming Reference Manual

This transaction adds a route to the database. If the route exists, its data can be overwritten if the allow overwrite flag is set in the input transaction file.

Transaction information required:

- Route Name
- Customer ID (A valid Customer ID is either empty or a value corresponding to one of the Customer IDs in the customer table)
- Region (If region control is enabled, region has to be non-empty and should correspond to one of the entries in the region table. If region control is not enabled, region can be empty but any non-empty value should correspond to one of the entries in the region table.)
- If Allow Overwrite (Optional) - Flag to allow overwrite of existing route. All details except route 'Creation Date' are overwritten.
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.
- Route name is empty
- Customer ID not found
- Region not found
- Region control is enabled but region is empty

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/add
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/add
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ADD_ROUTE>
  <RouteRecord>
    <!-- char string -->
    <RouteName>CentranRoute</RouteName>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <Region>TestRegionD</Region>
  </RouteRecord>
  <!-- bool -->
  <IfAllowOverwrite>false</IfAllowOverwrite>
  <!-- char string -->
  <DispatcherID/>
</TRANSACTION_ADD_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_ADD_ROUTE) and a result record (indicating success).

```
<RESPONSE_ADD_ROUTE>
  <TRANSACTION_ADD_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteRecord>
      <RouteName>CentranRoute</RouteName>
      <CustomerID>ACustomer</CustomerID>
      <Region>TestRegionD</Region>
    </RouteRecord>
    <IfAllowOverwrite>false</IfAllowOverwrite>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route CentranRoute successfully added to the database.
  </Description>
  </ResultRecord>
</RESPONSE_ADD_ROUTE>
```

Example 2 - Failure

Input Transaction Format (HTTP Post):

https://{host}/CentranService/rest/route/add

Example Input Transaction (HTTP Post):

https://kml-3242.domain.local/CentranService/rest/route/add

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ADD_ROUTE>
  <RouteRecord>
    <!-- char string -->
    <RouteName>CentranRoute</RouteName>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <Region>NoRegion</Region>
  </RouteRecord>
  <!-- bool -->
  <IfAllowOverwrite>true</IfAllowOverwrite>
  <!-- char string -->
  <DispatcherID/>
</TRANSACTION_ADD_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_ADD_ROUTE), a result record indicating failure with an error code (RC_ERR_REGION_DOESNT_EXIST) and description.

```
<RESPONSE_ADD_ROUTE>
  <TRANSACTION_ADD_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteRecord>
      <RouteName>CentranRoute</RouteName>
      <CustomerID>ACustomer</CustomerID>
      <Region>NoRegion</Region>
    </RouteRecord>
    <IfAllowOverwrite>true</IfAllowOverwrite>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_REGION_DOESNT_EXIST</ErrorCode>
    <Description>Region NoRegion does not exist in the region table.</Description>
  </ResultRecord>
</RESPONSE_ADD_ROUTE>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran add route transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

This example adds a route named **TestRoute8**.

Input Transaction Format (HTTP Post) - JSON:

https://{host}/CentranServiceJSON/rest/route/add

Example Input Transaction (HTTP Post) - JSON:

https://kml-3242.domain.local/CentranServiceJSON/rest/route/add

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "ifAllowOverwriteField" : false ,
  "ifAllowOverwriteFieldSpecified" : false ,
```

```

"routeRecordField" :
{
    "creationDateField" : null ,
    "creationDateFieldSpecified" : false ,
    "customerIDField" : "North Bank" ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "TestRoute8"
}
}

```

Example Output Transaction - JSON:

```

{
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Route TestRoute8 successfully added to the database."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeRecordField" : null ,
    "tTRANSACTION_ADD_ROUTEField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "ifAllowOverwriteField" : false ,
        "ifAllowOverwriteFieldSpecified" : false ,
        "routeRecordField" :
        {
            "creationDateField" : null ,
            "creationDateFieldSpecified" : false ,
            "customerIDField" : "North Bank" ,
            "regionField" : "KENTUCKY" ,
            "routeNameField" : "TestRoute8"
        }
    }
}

```

3.3.2 Web Service Route Transactions - Read a Route

CenTran Programming Reference Manual

This transaction reads a route and all the locks on the route from the database.

Transaction information required:

- Route Name
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, a result record (result, error code and description), the complete route record and all route lock records on the route.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Route does not exist.
- Dispatcher not authorized to do this operation.
- Not authorized due to region (region control active).
- Route lock table can't be opened.

Example 1 - Success

Input Transaction Format:

```
https://{host}/CentranService/rest/route/{routename}/data
```

Example Input Transaction:

```
https://kml-3242.domain.local/CentranService/rest/route/TestRte5/data
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_READ_ROUTE), a result record (indicating success), the complete route record and all the route lock records found on the route. If no route lock records are found, a comment is placed after the route record indicating that no locks have been found on the route.

```
<RESPONSE_READ_ROUTE>
  <TRANSACTION_READ_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte5</RouteName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route TestRte5 found and read from the route table.
  </Description>
  </ResultRecord>
  <RouteRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <RouteName>TestRte5</RouteName>
    <CreationDate>2004-12-25T15:49:18</CreationDate>
    <CustomerID>ACustomer</CustomerID>
    <Region />
  </RouteRecord>
  <!--The following locks have been found on the route:-->
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK015</LockName>
    <User1ID>rzjane</User1ID>
    <User2ID>rzjohn</User2ID>
    <RouteName>TestRte5</RouteName>
    <OpenDate>2004-12-22T15:49:18</OpenDate>
    <CloseDate>2004-12-25T15:49:18</CloseDate>
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
</RESPONSE_READ_ROUTE>
```

Example 2 - Failure

Input Transaction Format:

```
https://{host}/CentranService/rest/route/{routename}/data
```

Example Input Transaction:

```
https://kml-3242.domain.local/CentranService/rest/route/CentranRoute/data
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_READ_ROUTE), a result record indicating failure with an error code (RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_ROUTE_REGION) and description. In this case, the dispatcher belongs to a local (as against global) region different from the route's region.

```
<RESPONSE_READ_ROUTE>
  <TRANSACTION_READ_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>CentranRoute</RouteName>
    <DispatcherID>SuperUserLocalRegion</DispatcherID>
  </TRANSACTION_READ_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_ROUTE_REGION</ErrorCode>
    <Description>Dispatcher belongs to a local region. The dispatcher's region does not match the route's region.
  </Description>
  </ResultRecord>
</RESPONSE_READ_ROUTE>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read route transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

In this example, **TestRoute8** is read.

Input Transaction Format (HTTP Get) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/{routename}/data
```

Example Input Transaction (HTTP Get) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/TestRoute8/data
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of route lock records matching the given query: 9."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "routeLockRecordField" :
  [
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : "0" ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
```

```

        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "1" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "" ,
        "user2IDField" : ""
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "2" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "" ,
        "user2IDField" : ""
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "" ,
        "user2IDField" : ""
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "1" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "" ,
        "user2IDField" : ""
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "2" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "" ,
        "user2IDField" : ""
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : "0" ,

```



```

        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "" ,
        "user2IDField" : ""
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "1" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "" ,
        "user2IDField" : ""
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "2" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "" ,
        "user2IDField" : ""
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "" ,
        "user2IDField" : ""
    }
] ,
"routeRecordField" :
{
    "creationDateField" : "\Date(1409251194040)\" ,
    "creationDateFieldSpecified" : true ,
    "customerIDField" : "North Bank" ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "TestRoute8"
} ,
"TRANSACTION_READ_ROUTEField" :
{
    "dispatcherIDField" : "CentranSS" ,
    "routeNameField" : "TestRoute8"
}
}

```

3.3.3 Web Service Route Transactions - Update a Route

CenTran Programming Reference Manual

This transaction updates data for an existing route in the database. The route fields to be updated have to be specified in the input transaction. Those route fields that are not specified in the input transaction are not changed from their current values.

Transaction information required:

- Route Name
- Customer ID (Optional) – The new value for this field
- Region (Optional) – The new value for this field
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, a result record (result, error code and description) and the updated route record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Route doesn't exist.
- Invalid Customer ID (Customer ID not found in database).
- Invalid Region (Region not found in database)
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.
- Input transaction file has validation errors against the schema or the required input fields have an empty or invalid value.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/update
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/update
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_UPDATE_ROUTE>
  <UpdateRouteRecord>
    <CustomerID>North Bank</CustomerID>
    <RouteName>TestRoute4</RouteName>
  </UpdateRouteRecord>
  <DispatcherID></DispatcherID>
</TRANSACTION_UPDATE_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_UPDATE_ROUTE), a result record (indicating success) and the updated route record with new Customer ID and Region values.

```
<RESPONSE_UPDATE_ROUTE>
  <TRANSACTION_UPDATE_ROUTE>
    <UpdateRouteRecord>
      <CustomerID>North Bank</CustomerID>
      <RouteName>TestRoute4</RouteName>
    </UpdateRouteRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Route TestRoute4 has been updated successfully.</Description>
  </ResultRecord>
  <RouteRecord>
    <RouteName>TestRoute4</RouteName>
    <CustomerID>North Bank</CustomerID>
    <Region>KENTUCKY</Region>
    <CreationDate>2011-07-18T14:51:05.777Z</CreationDate>
  </RouteRecord>
</RESPONSE_UPDATE_ROUTE>
```

Example 2 - Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/update
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/update
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_UPDATE_ROUTE>
  <UpdateRouteRecord>
    <!-- char string -->
    <RouteName>CentranRoute</RouteName>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <Region>TestRegionC</Region>
  </UpdateRouteRecord>
  <!-- char string -->
  <DispatcherID/>
</TRANSACTION_UPDATE_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_UPDATE_ROUTE), a result record indicating failure with an error code (RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_ROUTE_NEW_REGION) and description. Here, the dispatcher's region is local (in scope as opposed to global) and different from that of the new region for the route. An update route transaction would also fail if the dispatcher's region is local and different from the route's current region.

```
<RESPONSE_UPDATE_ROUTE>
  <TRANSACTION_UPDATE_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UpdateRouteRecord>
      <RouteName>CentranRoute</RouteName>
      <CustomerID>ACustomer</CustomerID>
      <Region>TestRegionC</Region>
    </UpdateRouteRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_UPDATE_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_ROUTE_NEW_REGION</ErrorCode>
    <Description>Dispatcher belongs to a local region.
    The dispatcher's region does not match the route's new region.
    </Description>
  </ResultRecord>
</RESPONSE_UPDATE_ROUTE>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran update route transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example updates the **TestRoute4** route.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/update
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/update
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "updateRouteRecordField" :
  {
    "customerIDField" : "North Bank" ,
    "regionField" : null ,
    "routeNameField" : "TestRoute4"
  }
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Route TestRoute4 has been updated successfully."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "routeRecordField" :
  {
    "creationDateField" : "\Date(1311000665777)\/" ,
    "creationDateFieldSpecified" : true ,
    "customerIDField" : "North Bank" ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "TestRoute4"
  } ,
  "tTRANSACTION_UPDATE_ROUTEField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "updateRouteRecordField" :
    {
      "customerIDField" : "North Bank" ,
      "regionField" : null ,
      "routeNameField" : "TestRoute4"
    }
  }
}
```

3.3.4 Web Service Route Transactions - Delete a Route

CenTran Programming Reference Manual

This transaction deletes a route from the database. It also deletes the route lock entries for this route from the route lock table.

Transaction information required:

- Route Name
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Route doesn't exist.
- Failed to delete from route table.
- Not authorized due to region (region control active).
- Dispatcher not authorized to do this operation.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/delete
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/delete
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_DELETE_ROUTE>
  <!-- char string -->
  <RouteName>CentranRoute</RouteName>
  <!-- char string -->
  <DispatcherID/>
</TRANSACTION_DELETE_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_DELETE_ROUTE), a result record (indicating success).

```
<RESPONSE_DELETE_ROUTE>
  <TRANSACTION_DELETE_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>CentranRoute</RouteName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route CentranRoute has been deleted successfully.</Description>
  </ResultRecord>
</RESPONSE_DELETE_ROUTE>
```

Example 2 - Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/delete
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/delete
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_DELETE_ROUTE>
  <!-- char string -->
  <RouteName>123456</RouteName>
  <!-- char string -->
  <DispatcherID/>
</TRANSACTION_DELETE_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_DELETE_ROUTE), a result record indicating failure with an error code (RC_ERR_ROUTE_NOT_FOUND) and description.

```
<RESPONSE_DELETE_ROUTE>
  <TRANSACTION_DELETE_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>123456</RouteName>
```

```

    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_ROUTE_NOT_FOUND</ErrorCode>
    <Description>Failed to find route 123456 in the route table.
  </Description>
  </ResultRecord>
</RESPONSE_DELETE_ROUTE>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran delete route transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example deletes the **TestRoute1** route.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/delete
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/delete
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "dispatcherIDField" : null ,
  "routeNameField" : "TestRoute1"
}

```

Example Output Transaction - JSON:

```

{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Route TestRoute1 has been deleted successfully."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_DELETE_ROUTEField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "routeNameField" : "TestRoute1"
  }
}

```


3.3.5 Web Service Route Transactions - Add Locks to a Route

CenTran Programming Reference Manual

This transaction adds locks to an existing route in the database. The locks to be added are specified as route lock records (as defined in the schema) in the input transaction file.

Transaction information required:

- Route Name
- Array of Lock Records to be added to the route:
 - Lock Name
 - Lock Sequence
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and an array of route locks with a result record for each lock.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all locks were added successfully). In this case the error code for the transaction would be RC_OK.

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and an array of result records (one result record for each lock) with those route lock records that were added successfully to the database.

NOTE: The result record for the whole transaction has as its result 'Failure' if the transaction is a partial success (some locks were added successfully and the others failed) or if the transaction is a complete failure (none of the locks were added to the route). In the case of partial success, the error code for the transaction would be RC_PARTIAL_OK and in case of complete failure the error code for the transaction would be RC_NOT_OK.

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Route doesn't exist.
- Locks don't exist.
- Locks invalid (not in Active or Install mode).
- Dispatcher and route belong to different regions.
- Not authorized due to authorization role.
- Route and lock belong to different regions

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/lock-add
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/lock-add
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ADD_LOCKS_ROUTE>
<!-- char string -->
<RouteName>TestRte4</RouteName>
<!-- route lock record -->
<RouteLockRecord>
  <LockName>VLK016</LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<!-- route lock record -->
<RouteLockRecord>
  <LockName>VLK015</LockName>
  <LockSequence>2</LockSequence>
</RouteLockRecord>
<!-- char string -->
<DispatcherID/>
</TRANSACTION_ADD_LOCKS_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_ADD_LOCKS_ROUTE), a result record (indicating success) followed by result records for each lock. The locks that were added to the route lock table have their route lock records retrieved from the table and appended to the end of their result records. The output transaction has one or more RouteLockRecordWithResult parent elements, which is an output unit for each lock record specified in the input file. The unit contains a result record followed by the retrieved route lock record.

```
<RESPONSE_ADD_LOCKS_ROUTE>
  <TRANSACTION_ADD_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <RouteLockRecord>
      <LockName>VLK016</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
      <LockName>VLK015</LockName>
      <LockSequence>2</LockSequence>
    </RouteLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
```



```

</TRANSACTION_ADD_LOCKS_ROUTE>
<ResultRecord>
  <Result>Success</Result>
  <ErrorCode>RC_OK</ErrorCode>
  <Description>All specified locks have been added to the route.
</Description>
</ResultRecord>
<RouteLockRecordWithResult>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLK016, sequence 1 added
    successfully to the route lock table.
    </Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK016</LockName>
    <User1ID />
    <User2ID />
    <RouteName>TestRte4</RouteName>
    <OpenDate xsi:nil="true" />
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
</RouteLockRecordWithResult>
<RouteLockRecordWithResult>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLK015, sequence 2 added successfully to the route lock table.
    </Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK015</LockName>
    <User1ID />
    <User2ID />
    <RouteName>TestRte4</RouteName>
    <OpenDate xsi:nil="true" />
    <CloseDate xsi:nil="true" />
    <LockSequence>2</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
</RouteLockRecordWithResult>
</RESPONSE_ADD_LOCKS_ROUTE>

```

Example 2 - Partial Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/lock-add
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/lock-add
```

Example Input Transaction (HTTP Body):

```

<TRANSACTION_ADD_LOCKS_ROUTE>
<!-- char string -->
<RouteName>TestRte4</RouteName>
<!-- route lock record -->
<RouteLockRecord>
  <LockName>VLK014</LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<!-- route lock record -->
<RouteLockRecord>
  <LockName>VLK015</LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<!-- char string -->
<DispatcherID/>
</TRANSACTION_ADD_LOCKS_ROUTE>

```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_ADD_LOCKS_ROUTE), a result record (indicating failure with an error code of RC_PARTIAL_OK) for the transaction followed by result records for each lock. Those locks that could be added to the route lock table have their route lock records retrieved from the table and appended to the end of their result records. The output transaction has one or more RouteLockRecordWithResult parent elements, which is an output unit for each lock record specified in the input file. The unit contains a result record followed by the retrieved route lock record (if result is success) and just the result record (if result is failure).

```
<RESPONSE_ADD_LOCKS_ROUTE>
```

```

<TRANSACTION_ADD_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <RouteName>TestRte4</RouteName>
  <RouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <RouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_LOCKS_ROUTE>
<ResultRecord>
  <Result>Failure</Result>
  <ErrorCode>RC_PARTIAL_OK</ErrorCode>
  <Description>Not all specified locks could be added to the route.
</Description>
</ResultRecord>
<RouteLockRecordWithResult>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FAILED_ADD_ROUTE_LOCK_ALREADY_EXISTS</ErrorCode>
    <Description>Route lock record with lock name VLK014,
sequence 1 already exists in the database.
  </Description>
  </ResultRecord>
</RouteLockRecordWithResult>
<RouteLockRecordWithResult>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLK015, sequence 1 added successfully to the route lock table.
  </Description>
  </ResultRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK015</LockName>
  <User1ID />
  <User2ID />
  <RouteName>TestRte4</RouteName>
  <OpenDate xsi:nil="true" />
  <CloseDate xsi:nil="true" />
  <LockSequence>1</LockSequence>
  <DispatchOrder>0</DispatchOrder>
  <ResultCode>0</ResultCode>
  <IfCloseSealDuress>0</IfCloseSealDuress>
  <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</RouteLockRecordWithResult>
</RESPONSE_ADD_LOCKS_ROUTE>

```

Example 3 - Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/lock-add
```

Example Input Transaction (HTTP Post):

```
https://kml-3242/CentranService/rest/route/lock-add
```

Example Input Transaction (HTTP Body):

```

<TRANSACTION_ADD_LOCKS_ROUTE>
<!-- char string -->
<RouteName>TestRte4</RouteName>
<!-- route lock record -->
<RouteLockRecord>
  <LockName>VLK009</LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<!-- route lock record -->
<RouteLockRecord>
  <LockName>VLKShelved</LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<!-- char string -->
<DispatcherID/>
</TRANSACTION_ADD_LOCKS_ROUTE>

```

Output Transaction:

The output transaction has the original input transaction (TRANSACTION_ADD_LOCKS_ROUTE), a result record (indicating failure) followed by result records for each lock that could not be added to the route.

```

<RESPONSE_ADD_LOCKS_ROUTE>
  <TRANSACTION_ADD_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <RouteLockRecord>
      <LockName>VLK009</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>

```

```

        <LockName>VLKShelved</LockName>
        <LockSequence>1</LockSequence>
      </RouteLockRecord>
      <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_ADD_LOCKS_ROUTE>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_NOT_OK</ErrorCode>
      <Description>None of the specified locks could be added to the route.</Description>
    </ResultRecord>
    <RouteLockRecordWithResult>
      <ResultRecord>
        <Result>Failure</Result>
        <ErrorCode>RC_ERR_LOCK_ROUTE_REGION_MISMATCH</ErrorCode>
        <Description>The lock's region does not match the route's region.</Description>
      </ResultRecord>
    </RouteLockRecordWithResult>
    <RouteLockRecordWithResult>
      <ResultRecord>
        <Result>Failure</Result>
        <ErrorCode>RC_ERR_INVALID_LOCK_REC_RECTYPE</ErrorCode>
        <Description>Lock VLKShelved is neither in Active mode nor in Install mode.
      </Description>
      </ResultRecord>
    </RouteLockRecordWithResult>
  </RESPONSE_ADD_LOCKS_ROUTE>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran add route transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 4 - JSON

This example adds locks **VLK010**, **VLK012**, and **VLK013** to the route **TestRoute8** on route sequences 1, 2, and 3.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/lock-add
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/lock-add
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "dispatcherIDField" : null ,
  "routeLockRecordField" :
  [
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK010" ,
      "lockSequenceField" : "1" ,
      "openDateField" : null ,
      "openDateFieldSpecified" : false ,
      "resultCodeField" : null ,
      "routeNameField" : null ,
      "user1IDField" : null ,
      "user2IDField" : null
    } ,
  ]
}

```

```

        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "2" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "1" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "2" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false
    }

```

```

        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "1" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "2" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    }
    ] ,
    "routeNameField" : "TestRoute8"
}

```

Example Output Transaction - JSON:

```

{
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "All specified locks have been added to the route."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordWithResultField" :
    [
        {
            "resultRecordField" :
            {
                "descriptionField" :
                [
                    "Lock VLK010, sequence 1 added successfully to the route lock table."
                ] ,
                "errorCodeField" : "RC_OK" ,
                "ifRetryValidField" : false ,
                "resultField" : 0
            } ,
            "routeLockRecordField" :
            {
                "closeDateField" : null ,
                "closeDateFieldSpecified" : false ,
                "dispatchOrderField" : null ,
                "ifCloseSealDuressField" : false ,
                "ifCloseSealDuressFieldSpecified" : false ,
                "ifCloseSealLowBatteryField" : false ,
                "ifCloseSealLowBatteryFieldSpecified" : false ,
                "lockNameField" : "VLK010" ,
                "lockSequenceField" : "1" ,
                "openDateField" : null ,
                "openDateFieldSpecified" : false ,
                "resultCodeField" : null ,
                "routeNameField" : null ,
            }
        }
    ]
}

```

```

        "user1IDField" : null ,
        "user2IDField" : null
    }
},
{
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock VLK010, sequence 2 added successfully to the route lock table."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "2" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    }
},
{
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock VLK010, sequence 3 added successfully to the route lock table."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    }
},
{
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock VLK012, sequence 1 added successfully to the route lock table."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "1" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,

```

```

        "user1IDField" : null ,
        "user2IDField" : null
    }
},
{
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock VLK012, sequence 2 added successfully to the route lock table."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "2" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    }
},
{
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock VLK012, sequence 3 added successfully to the route lock table."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    }
},
{
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock VLK013, sequence 1 added successfully to the route lock table."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "1" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,

```

```

        "user1IDField" : null ,
        "user2IDField" : null
    }
},
{
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock VLK013, sequence 2 added successfully to the route lock table."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "2" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    }
},
{
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock VLK013, sequence 3 added successfully to the route lock table."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    }
}
],
"tTRANSACTION_ADD_LOCKS_ROUTEField" :
{
    "dispatcherIDField" : "CentranSS" ,
    "routeLockRecordField" :
    [
        {
            "closeDateField" : null ,
            "closeDateFieldSpecified" : false ,
            "dispatchOrderField" : null ,
            "ifCloseSealDuressField" : false ,
            "ifCloseSealDuressFieldSpecified" : false ,
            "ifCloseSealLowBatteryField" : false ,
            "ifCloseSealLowBatteryFieldSpecified" : false ,
            "lockNameField" : "VLK010" ,
            "lockSequenceField" : "1" ,
            "openDateField" : null ,
            "openDateFieldSpecified" : false ,
            "resultCodeField" : null ,
            "routeNameField" : null ,
            "user1IDField" : null ,
            "user2IDField" : null
        } ,
        {
            "closeDateField" : null ,
            "closeDateFieldSpecified" : false ,

```



```

        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "1" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "2" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    }
] ,
"routeNameField" : "TestRoute8"
}

```

3.3.6 Web Service Route Transactions - Read Locks on a Route

CenTran Programming Reference Manual

This transaction reads data for locks on a route either from the database or from a route file. If successful, the output would include both the route lock record and the corresponding lock record for each lock on the route.

Transaction information required:

- Route Name
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole. No route information (route lock, lock records) would be retrieved if the transaction failed due to reasons like lack of authorization or invalid route name. If the pre-requisites like authorization, valid route name are satisfied, the route information retrieved for each lock on the route has a route lock record (if found in database or route file), lock record (if found in database) and result record.

NOTE: The result record for the whole transaction has as its result 'Failure' if the transaction is a partial success (only some of the locks were read successfully) or if the transaction is a complete failure (none of the locks were read successfully). In the case of partial success, the error code for the transaction would be RC_PARTIAL_OK and in case of complete failure the error code for the transaction would be RC_NOT_OK. A lock may not be read successfully if, for example the route lock exists but the matching lock record does not.

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Route does not exist.
- Invalid route name.
- All locks on route don't exist.
- Dispatcher and route belong to different regions (route belongs to a database).
- Not authorized due to authorization role.
- Validation error.

Example 1 - Success

Input Transaction Format:

```
https://{host}/CentranService/rest/route/{routename}/lock-data
```

Example Input Transaction:

```
https://kml-3242.domain.local/CentranService/rest/route/TestRte4/lock-data
```

Example Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_READ_LOCKS_ROUTE), a result record (indicating success) followed by data for each lock on the route. The output unit for each lock found on the route is LockRecordAndRouteLockRecord which consists of a result record, lock record and route lock record.

```
<RESPONSE_READ_LOCKS_ROUTE>
  <TRANSACTION_READ_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>All locks defined on the route were found and read.
  </Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <Description>Lock record found.</Description>
    </ResultRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK014</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T21:17:28</StartDate>
      <LastUsedDate>2009-02-16T23:52:39</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <IfLockOpen>0</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>1</IfRoute1Issued>
      <IfRoute2Issued>0</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
      <SerialNumber>532214</SerialNumber>
      <CloseSeal>113</CloseSeal>
      <PreviousSeal>113</PreviousSeal>
    </LockRecord>
  </LockRecordAndRouteLockRecord>
</RESPONSE_READ_LOCKS_ROUTE>
```

```

<RouteSeal1>152</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>113</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>956628</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>363809</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>7</AuditCount>
<GroupName>some gro</GroupName>
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2>dddddddddddddd</Description2>
<Description3>dddddddddddddd</Description3>
<Description4>dddddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>MHG\agoverdhan</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-16T23:52:39.744Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rbob</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRoute1</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2005-02-22T13:50:15.422Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2005-02-22T14:41:44.854Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK014</LockName>
  <User1ID>rzjill</User1ID>
  <User2ID />
  <RouteName>TestRte4</RouteName>

```

```

        <OpenDate>2009-02-16T23:52:39.784Z</OpenDate>
        <CloseDate xsi:nil="true" />
        <LockSequence>1</LockSequence>
        <DispatchOrder>0</DispatchOrder>
        <ResultCode>0</ResultCode>
        <IfCloseSealDuress>0</IfCloseSealDuress>
        <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_READ_LOCKS_ROUTE>

```

Example 2 - Failure

Input Transaction Format:

```
https://{host}/CentranService/rest/route/{routename}/lock-data
```

Example Input Transaction:

```
https://kml-3242.domain.local/CentranService/rest/route/TestRte7/lock-data
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_READ_LOCKS_ROUTE), a result record (indicating failure) followed by data for each lock on the route. The output unit for each lock found on the route is LockRecordAndRouteLockRecord which consists of a result record, lock record and route lock record. In this case, the route lock record specified in the route file has no matching lock record. So, the result record indicates a failure and only the route lock information retrieved from the route file is displayed.

```

<RESPONSE_READ_LOCKS_ROUTE>
  <TRANSACTION_READ_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte7</RouteName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_NOT_OK</ErrorCode>
    <Description>None of the locks defined on the route were found and read.
  </Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_ERR_LOCK_NOT_FOUND</ErrorCode>
      <Description>Lock record with lock name VLK031 not found.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK031</LockName>
      <User1ID />
      <User2ID />
      <RouteName>TestRte7</RouteName>
      <OpenDate xsi:nil="true" />
      <CloseDate xsi:nil="true" />
      <LockSequence>1</LockSequence>
      <DispatchOrder>0</DispatchOrder>
      <ResultCode>0</ResultCode>
      <IfCloseSealDuress>0</IfCloseSealDuress>
      <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
  </LockRecordAndRouteLockRecord>
</RESPONSE_READ_LOCKS_ROUTE>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This field is used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read locks on route transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning

0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

In this example, lock data for **TestRoute8** is read.

Lock **VLK010** is present on the route for sequences 1, 2, and 3. Route sequences 1 and 2 are dispatched. Lock **VLK010** is dual mode.

Lock **VLK012** is present on the route for sequences 1, 2, and 3. Route sequences 1 and 2 are dispatched. Lock **VLK012** is single mode.

Lock **VLK013** is present on the route for sequences 1, 2, and 3. Route sequence 1 is dispatched. Lock **VLK013** is single mode.

Input Transaction Format (HTTP Get) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/{routename}/lock-data
```

Example Input Transaction (HTTP Get) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/TestRoute8/lock-data
```

Example Output Transaction - JSON:

```
{
  "lockRecordAndRouteLockRecordField" :
  [
    {
      "lockRecordField" :
      {
        "aTMSerialNumberField" : "",
        "address1Field" : "",
        "address2Field" : "",
        "auditCountField" : "46",
        "bankBranchNameField" : "",
        "bankModeUserNameArrayField" : null,
        "bankOpenDelayField" : "1246576928",
        "bankOpenWindowField" : "1246576928",
        "cityField" : "",
        "closeSealLengthField" : "2",
        "closeTime1Field" : null,
        "closeTime2Field" : null,
        "closeTime3Field" : null,
        "countryField" : "",
        "customerIDField" : "",
        "customerNumberField" : "123456",
        "description1Field" : "aaaaaaaaaaaaaaaa",
        "description2Field" : "",
        "description3Field" : "",
        "description4Field" : "",
        "dispatcherID1Field" : "CentranSS",
        "dispatcherID2Field" : "CentranSS",
        "dispatcherID3Field" : "",
        "displayIssuedComboUser1Seq1Field" : "493104",
        "displayIssuedComboUser1Seq2Field" : "799569",
        "displayIssuedComboUser1Seq3Field" : "",
        "displayIssuedComboUser2Seq1Field" : "704506",
        "displayIssuedComboUser2Seq2Field" : "001072",
        "displayIssuedComboUser2Seq3Field" : "",
        "duressDateField" : null,
        "groupNameField" : "",
        "ifActivationCallField" : false,
        "ifDualModeField" : true,
        "ifForcedClosedField" : false,
        "ifLastRoute1IssuedField" : true,
        "ifLastRoute2IssuedField" : true,
        "ifLastRoute3IssuedField" : false,
        "ifLegacyImportField" : false,
        "ifLockOpenField" : false,
        "ifNoAlarmField" : false,
        "ifPreviousRoute1IssuedField" : false,
        "ifPreviousRoute2IssuedField" : false,
        "ifPreviousRoute3IssuedField" : false,
      }
    }
  ]
}
```

```

        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : true ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "493104" ,
        "issuedComboUser1Seq2Field" : "799569" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "704506" ,
        "issuedComboUser2Seq2Field" : "1072" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "1246576928" ,
        "lastUsedDateField" : "\/Date(1409322150417)\/" ,
        "lockActivationStatusField" : "" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK010" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\/Date(1409322149527)\/" ,
        "openTime2Field" : "\/Date(1409322150417)\/" ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\/Date(1400511514333)\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "484723" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "196776" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\/Date(1400511450060)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "3" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "3" ,
        "previousUser1ID1Field" : "rjohn" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "rbob" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRoute8" ,
        "routeName2Field" : "TestRoute8" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "65" ,
        "routeSeal2Field" : "3" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "3" ,
        "serialNumberField" : "532010" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\/Date(1036188938000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rbob" ,
        "user1ID2Field" : "rbob" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "rdave" ,
        "user2ID2Field" : "rdave" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock record found."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,

```

```

"routeLockRecordField" :
{
    "closeDateField" : null ,
    "closeDateFieldSpecified" : false ,
    "dispatchOrderField" : "0" ,
    "ifCloseSealDuressField" : false ,
    "ifCloseSealDuressFieldSpecified" : false ,
    "ifCloseSealLowBatteryField" : false ,
    "ifCloseSealLowBatteryFieldSpecified" : false ,
    "lockNameField" : "VLK010" ,
    "lockSequenceField" : "1" ,
    "openDateField" : "\/Date(1409322149527)\/" ,
    "openDateFieldSpecified" : true ,
    "resultCodeField" : "0" ,
    "routeNameField" : "TestRoute8" ,
    "user1IDField" : "rbob" ,
    "user2IDField" : "rdave"
}
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "46" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" : null ,
        "bankOpenDelayField" : "1246576928" ,
        "bankOpenWindowField" : "1246576928" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "493104" ,
        "displayIssuedComboUser1Seq2Field" : "799569" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "704506" ,
        "displayIssuedComboUser2Seq2Field" : "001072" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : true ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : true ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : true ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "493104" ,
        "issuedComboUser1Seq2Field" : "799569" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "704506" ,
        "issuedComboUser2Seq2Field" : "1072" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "1246576928" ,
        "lastUsedDateField" : "\/Date(1409322150417)\/" ,
        "lockActivationStatusField" : "" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK010" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\/Date(1409322149527)\/" ,
        "openTime2Field" : "\/Date(1409322150417)\/" ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,

```



```

        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\/Date(1400511514333)\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "484723" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "196776" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\/Date(1400511450060)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "3" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "3" ,
        "previousUser1ID1Field" : "rjohn" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "rbob" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRoute8" ,
        "routeName2Field" : "TestRoute8" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "65" ,
        "routeSeal2Field" : "3" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "3" ,
        "serialNumberField" : "532010" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\/Date(1036188938000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rbob" ,
        "user1ID2Field" : "rbob" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "rdave" ,
        "user2ID2Field" : "rdave" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock record found."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "2" ,
        "openDateField" : "\/Date(1409322150417)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : "rdave"
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,

```

```

"auditCountField" : "46" ,
"bankBranchNameField" : "" ,
"bankModeUserNameArrayField" : null ,
"bankOpenDelayField" : "1246576928" ,
"bankOpenWindowField" : "1246576928" ,
"cityField" : "" ,
"closeSealLengthField" : "2" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "" ,
"customerNumberField" : "123456" ,
"description1Field" : "aaaaaaaaaaaaaaaa" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "CentranSS" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "493104" ,
"displayIssuedComboUser1Seq2Field" : "799569" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "704506" ,
"displayIssuedComboUser2Seq2Field" : "001072" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDualModeField" : true ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : true ,
"ifLastRoute2IssuedField" : true ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : true ,
"ifRoute2IssuedField" : true ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "493104" ,
"issuedComboUser1Seq2Field" : "799569" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "704506" ,
"issuedComboUser2Seq2Field" : "1072" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "1246576928" ,
"lastUsedDateField" : "\\Date(1409322150417)\" ,
"lockActivationStatusField" : "" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK010" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\\Date(1409322149527)\" ,
"openTime2Field" : "\\Date(1409322150417)\" ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\\Date(1400511514333)\" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "484723" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "196776" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\\Date(1400511450060)\" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "3" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "3" ,
"previousUser1ID1Field" : "rjohn" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,

```

```

        "previousUser2ID1Field" : "rbob" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRoute8" ,
        "routeName2Field" : "TestRoute8" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "65" ,
        "routeSeal2Field" : "3" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "3" ,
        "serialNumberField" : "532010" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\\Date(1036188938000)\\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rbob" ,
        "user1ID2Field" : "rbob" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "rdave" ,
        "user2ID2Field" : "rdave" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock record found."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "14" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" : null ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "418275" ,
        "displayIssuedComboUser1Seq2Field" : "136541" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,

```

```

"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : true ,
"ifLastRoute2IssuedField" : true ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : true ,
"ifRoute2IssuedField" : true ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "418275" ,
"issuedComboUser1Seq2Field" : "136541" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\/Date(1409322151787)\/" ,
"lockActivationStatusField" : "" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK012" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1409322151140)\/" ,
"openTime2Field" : "\/Date(1409322151787)\/" ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\/Date(1400511514610)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "793198" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\/Date(1400511449583)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "150" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "150" ,
"previousUser1ID1Field" : "rjrb7" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "TestRoute8" ,
"routeName2Field" : "TestRoute8" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "68" ,
"routeSeal2Field" : "80" ,
"routeSeal3Field" : "0" ,
"sealField" : "150" ,
"serialNumberField" : "532012" ,
"serviceBranchField" : "" ,
"startDateField" : "\/Date(1036188988000)\/" ,
"stateField" : "" ,
"timeZoneIDField" : "" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "rbob" ,
"user1ID2Field" : "rbob" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,

```

```

        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock record found."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "1" ,
        "openDateField" : "\/Date(1409322151140)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "14" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" : null ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "418275" ,
        "displayIssuedComboUser1Seq2Field" : "136541" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : true ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : true ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "418275" ,
        "issuedComboUser1Seq2Field" : "136541" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
    }
}

```

```

"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\/Date(1409322151787)\/" ,
"lockActivationStatusField" : "" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK012" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1409322151140)\/" ,
"openTime2Field" : "\/Date(1409322151787)\/" ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\/Date(1400511514610)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "793198" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\/Date(1400511449583)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "150" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "150" ,
"previousUser1ID1Field" : "rjrb7" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "TestRoute8" ,
"routeName2Field" : "TestRoute8" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "68" ,
"routeSeal2Field" : "80" ,
"routeSeal3Field" : "0" ,
"sealField" : "150" ,
"serialNumberField" : "532012" ,
"serviceBranchField" : "" ,
"startDateField" : "\/Date(1036188988000)\/" ,
"stateField" : "" ,
"timeZoneIDField" : "" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "rbob" ,
"user1ID2Field" : "rbob" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zIPField" : ""
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Lock record found."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"routeLockRecordField" :
{
    "closeDateField" : null ,
    "closeDateFieldSpecified" : false ,
    "dispatchOrderField" : "0" ,
    "ifCloseSealDuressField" : false ,
    "ifCloseSealDuressFieldSpecified" : false ,
    "ifCloseSealLowBatteryField" : false ,
    "ifCloseSealLowBatteryFieldSpecified" : false ,
    "lockNameField" : "VLK012" ,

```

```

        "lockSequenceField" : "2" ,
        "openDateField" : "\/Date(1409322151787)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : ""
    }
},
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "14" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" : null ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "418275" ,
        "displayIssuedComboUser1Seq2Field" : "136541" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : true ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : true ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "418275" ,
        "issuedComboUser1Seq2Field" : "136541" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "0" ,
        "lastUsedDateField" : "\/Date(1409322151787)\/" ,
        "lockActivationStatusField" : "" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK012" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\/Date(1409322151140)\/" ,
        "openTime2Field" : "\/Date(1409322151787)\/" ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\/Date(1400511514610)\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "793198" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0"
    }
}

```

```

        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\/Date(1400511449583)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "150" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "150" ,
        "previousUser1ID1Field" : "rjrb7" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRoute8" ,
        "routeName2Field" : "TestRoute8" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "68" ,
        "routeSeal2Field" : "80" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "150" ,
        "serialNumberField" : "532012" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\/Date(1036188988000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rbob" ,
        "user1ID2Field" : "rbob" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock record found."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "atMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "22" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" : null ,
        "bankOpenDelayField" : "1246576928" ,
        "bankOpenWindowField" : "1246576928" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,

```



```

"countryField" : "" ,
"customerIDField" : "" ,
"customerNumberField" : "123456" ,
"description1Field" : "aaaaaaaaaaaaaaaa" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "604313" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : true ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : true ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "604313" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "1246576928" ,
"lastUsedDateField" : "\Date(1409322152470)\/" ,
"lockActivationStatusField" : "" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK013" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1409322152470)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1400511514857)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "748915" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1400511452980)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "23" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "23" ,
"previousUser1ID1Field" : "nr2" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "TestRoute8" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "151" ,
"routeSeal2Field" : "0" ,

```

```

        "routeSeal3Field" : "0" ,
        "sealField" : "23" ,
        "serialNumberField" : "532013" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\/Date(1036189019000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rbob" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock record found."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "1" ,
        "openDateField" : "\/Date(1409322152470)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "atMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "22" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" : null ,
        "bankOpenDelayField" : "1246576928" ,
        "bankOpenWindowField" : "1246576928" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "604313" ,
        "displayIssuedComboUser1Seq2Field" : "" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : false ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
    }
}

```

```

        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : false ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "604313" ,
        "issuedComboUser1Seq2Field" : "0" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "1246576928" ,
        "lastUsedDateField" : "\/Date(1409322152470)\/" ,
        "lockActivationStatusField" : "" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK013" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\/Date(1409322152470)\/" ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\/Date(1400511514857)\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "748915" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\/Date(1400511452980)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "23" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "23" ,
        "previousUser1ID1Field" : "nr2" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRoute8" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "151" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "23" ,
        "serialNumberField" : "532013" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\/Date(1036189019000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rbob" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock record found."
        ]
    }

```

```

    ],
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"routeLockRecordField" :
{
    "closeDateField" : null ,
    "closeDateFieldSpecified" : false ,
    "dispatchOrderField" : "0" ,
    "ifCloseSealDuressField" : false ,
    "ifCloseSealDuressFieldSpecified" : false ,
    "ifCloseSealLowBatteryField" : false ,
    "ifCloseSealLowBatteryFieldSpecified" : false ,
    "lockNameField" : "VLK013" ,
    "lockSequenceField" : "2" ,
    "openDateField" : null ,
    "openDateFieldSpecified" : false ,
    "resultCodeField" : "0" ,
    "routeNameField" : "TestRoute8" ,
    "user1IDField" : "" ,
    "user2IDField" : ""
}
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "22" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" : null ,
        "bankOpenDelayField" : "1246576928" ,
        "bankOpenWindowField" : "1246576928" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "604313" ,
        "displayIssuedComboUser1Seq2Field" : "" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : false ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : false ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "604313" ,
        "issuedComboUser1Seq2Field" : "0" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "1246576928" ,
        "lastUsedDateField" : "\\Date(1409322152470)\\/" ,
        "lockActivationStatusField" : "" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK013" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
    }
}

```

```

        "networkPortField" : "0" ,
        "openTime1Field" : "\/Date(1409322152470)\/" ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\/Date(1400511514857)\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "748915" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\/Date(1400511452980)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "23" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "23" ,
        "previousUser1ID1Field" : "nr2" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRoute8" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "151" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "23" ,
        "serialNumberField" : "532013" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\/Date(1036189019000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rbob" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock record found."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "3" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "" ,
        "user2IDField" : ""
    }
} ,

```

```
"resultRecordField" :
{
  "descriptionField" :
  [
    "Number of route lock records matching the given query: 9."
  ] ,
  "errorCodeField" : "RC_OK" ,
  "ifRetryValidField" : false ,
  "resultField" : 0
} ,
"tTRANSACTION_READ_LOCKS_ROUTEField" :
{
  "dispatcherIDField" : "CentranSS" ,
  "routeNameField" : "TestRoute8"
}
}
```

3.3.7 Web Service Route Transactions - Delete Locks from a Route

CenTran Programming Reference Manual

This transaction deletes locks from an existing route in the database. The locks to be deleted are specified as route lock records (as defined in the schema) in the input transaction file.

Transaction information required:

- Route Name
- Array of Lock Records to be deleted from the route:
 - Lock name
 - Lock sequence
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and an array of route locks (retrieved prior to deletion) with a result record for each lock.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all locks were deleted successfully from the route). In this case the error code for the transaction would be RC_OK.

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and an array of data for each lock on the route - result record, route lock record (retrieved prior to deletion).

NOTE: The result record for the whole transaction has as its result 'Failure' if the transaction is a partial success (some locks were deleted successfully and the others failed) or if the transaction is a complete failure (none of the locks were deleted from the route). In the case of partial success, the error code for the transaction would be RC_PARTIAL_OK and in the case of complete failure, the error code for the transaction would be RC_NOT_OK.

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Locks on route being deleted are open on the route.
- Route doesn't exist.
- Not authorized due to region (region control active).
- Not authorized due to authorization role.
- Route lock does not exist.

Example

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/lock-delete
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/lock-delete
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_DELETE_LOCKS_ROUTE>
  <!-- char string -->
  <RouteName>TestRte4</RouteName>
  <!-- route lock record -->
  <RouteLockRecord>
    <LockName></LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <!-- route lock record -->
  <RouteLockRecord>
    <LockName>VLK011</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <!-- route lock record -->
  <RouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <!-- route lock record -->
  <RouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <!-- char string -->
  <DispatcherID/>
</TRANSACTION_DELETE_LOCKS_ROUTE>
```

Output Transaction:

Note: The output transaction has the original input transaction (TRANSACTION_DELETE_LOCKS_ROUTE), a result record (indicating success) followed by result records for each lock. The locks that were found in the route lock table have their route lock records retrieved from the table (prior to deletion) and appended to the end of their result records. In this case, one lock has an invalid name, lock VLK011 was not found, lock VLK014 was open on the route (its route lock record was found and retrieved), and lock VLK015 was deleted successfully (its route lock record was found and retrieved prior to deletion). The error code for the transaction is RC_PARTIAL_OK (because one lock could be deleted successfully from the route) but the overall result is deemed a Failure.

```
<RESPONSE_DELETE_LOCKS_ROUTE>
  <TRANSACTION_DELETE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
```

```

<RouteLockRecord>
  <LockName></LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<RouteLockRecord>
  <LockName>VLK011</LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<RouteLockRecord>
  <LockName>VLK014</LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<RouteLockRecord>
  <LockName>VLK015</LockName>
  <LockSequence>1</LockSequence>
</RouteLockRecord>
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_DELETE_LOCKS_ROUTE>
<ResultRecord>
  <Result>Failure</Result>
  <ErrorCode>RC_PARTIAL_OK</ErrorCode>
  <Description>Not all specified route lock records could be deleted.
</Description>
</ResultRecord>
<RouteLockRecordWithResult>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_INVALID_LOCKNAME</ErrorCode>
    <Description>Invalid lock name. The lock name is blank.
    </Description>
  </ResultRecord>
</RouteLockRecordWithResult>
<RouteLockRecordWithResult>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_ROUTE_LOCK_NOT_FOUND</ErrorCode>
    <Description>Route lock record with lock name VLK011,
    sequence 1 not found in the database.
    </Description>
  </ResultRecord>
</RouteLockRecordWithResult>
<RouteLockRecordWithResult>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_LOCK_ALREADY_OPEN</ErrorCode>
    <Description>Route lock VLK014 is open on the route.
    </Description>
  </ResultRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK014</LockName>
  <User1ID>rzjill</User1ID>
  <User2ID />
  <RouteName>TestRte4</RouteName>
  <OpenDate>2009-02-17T22:11:03.789Z</OpenDate>
  <CloseDate xsi:nil="true" />
  <LockSequence>1</LockSequence>
  <DispatchOrder>0</DispatchOrder>
  <ResultCode>0</ResultCode>
  <IfCloseSealDuress>0</IfCloseSealDuress>
  <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</RouteLockRecordWithResult>
<RouteLockRecordWithResult>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route lock record VLK015 deleted successfully.
    </Description>
  </ResultRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK015</LockName>
  <User1ID />
  <User2ID />
  <RouteName>TestRte4</RouteName>
  <OpenDate xsi:nil="true" />
  <CloseDate xsi:nil="true" />
  <LockSequence>1</LockSequence>
  <DispatchOrder>0</DispatchOrder>
  <ResultCode>0</ResultCode>
  <IfCloseSealDuress>0</IfCloseSealDuress>
  <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</RouteLockRecordWithResult>
</RESPONSE_DELETE_LOCKS_ROUTE>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran delete locks from route transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example removes lock **VLK018** route sequence 1 and lock **VLK020** route sequence 1 from route **TestRoute2**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/lock-delete
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/lock-delete
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "routeLockRecordField" :
  [
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK018" ,
      "lockSequenceField" : "1" ,
      "openDateField" : null ,
      "openDateFieldSpecified" : false ,
      "resultCodeField" : null ,
      "routeNameField" : null ,
      "user1IDField" : null ,
      "user2IDField" : null
    } ,
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK020" ,
      "lockSequenceField" : "1" ,
      "openDateField" : null ,
      "openDateFieldSpecified" : false ,
      "resultCodeField" : null ,
      "routeNameField" : null ,
      "user1IDField" : null ,
      "user2IDField" : null
    }
  ] ,
  "routeNameField" : "TestRoute2"
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "All specified route lock records have been deleted."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "routeLockRecordWithResultField" :
```

```

[
  {
    "resultRecordField" :
    {
      "descriptionField" :
      [
        "Success"
      ] ,
      "errorCodeField" : "RC_OK" ,
      "ifRetryValidField" : false ,
      "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK018" ,
      "lockSequenceField" : "1" ,
      "openDateField" : null ,
      "openDateFieldSpecified" : false ,
      "resultCodeField" : null ,
      "routeNameField" : null ,
      "user1IDField" : null ,
      "user2IDField" : null
    }
  } ,
  {
    "resultRecordField" :
    {
      "descriptionField" :
      [
        "Success"
      ] ,
      "errorCodeField" : "RC_OK" ,
      "ifRetryValidField" : false ,
      "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK020" ,
      "lockSequenceField" : "1" ,
      "openDateField" : null ,
      "openDateFieldSpecified" : false ,
      "resultCodeField" : null ,
      "routeNameField" : null ,
      "user1IDField" : null ,
      "user2IDField" : null
    }
  }
] ,
"tTRANSACTION_DELETE_LOCKS_ROUTEField" :
{
  "dispatcherIDField" : "CentranSS" ,
  "routeLockRecordField" :
  [
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK018" ,
      "lockSequenceField" : "1" ,
      "openDateField" : null ,
      "openDateFieldSpecified" : false ,
      "resultCodeField" : null ,
      "routeNameField" : null ,
      "user1IDField" : null ,
      "user2IDField" : null
    } ,
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,

```

```

        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK020" ,
        "lockSequenceField" : "1" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    }
} ,
"routeNameField" : "TestRoute2"
}

```

3.3.8 Web Service Route Transactions - Dispatch All Locks on a Route

CenTran Programming Reference Manual

This transaction dispatches all locks on an existing route in the database or from a route file.

Transaction information required:

- Route Name
- Route User ID 1
- Route User ID 2
- Flag to indicate if lock errors allowed (conditional dispatch).
- Dispatcher ID (Optional) – If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all locks on the route were dispatched successfully). In this case the error code for the transaction would be RC_OK.

PartialSuccess:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'PartialSuccess' only if the transaction is a partial success (some locks on the route were dispatched successfully, and some locks failed).

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole. No route information is displayed if the transaction failed due to reasons like lack of authorization, invalid route name or failure of any other condition that needs to be satisfied before attempting to dispatch a lock on a route. If an attempt was made to dispatch the locks, for each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. The only exception to this rule is when an invalid lock name, invalid User ID or invalid lock sequence is specified as input for a route lock record and in this case only the result record is displayed for that particular route lock record.

NOTE: The result record for the whole transaction has as its result 'Failure'.

NOTE: The output transaction may have one or more 'LockRecordAndRouteLockRecord' elements. Each element is an output unit for each lock that was either successfully dispatched or failed to be dispatched. The unit contains a result record followed by a lock record (if found in the database) and a route lock record (if found in the database).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Locks already open, or otherwise invalid.
- Locks don't exist.
- Users don't exist, or otherwise invalid.
- Route doesn't exist.
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/dispatch-all
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/dispatch-all
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <RouteName>TestRte3</RouteName>
  <User1ID>rzjack</User1ID>
  <User2ID>rzjill</User2ID>
  <IfAllowLockErrors>0</IfAllowLockErrors>
  <DispatcherID/>
</TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
```

Output Transaction:

Here, the route in the database has no locks assigned to it and so no locks are dispatched.

```
<RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>
  <TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte3</RouteName>
    <User1ID>rzjack</User1ID>
    <User2ID>rzjill</User2ID>
    <IfAllowLockErrors>0</IfAllowLockErrors>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_ROUTE_NO_LOCKS_ASSIGNED</ErrorCode>
    <Description>The route has no locks assigned to it.</Description>
  </ResultRecord>
</RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>
```

Example 2 - Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/dispatch-all
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/dispatch-all
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <RouteName>TestRte4</RouteName>
  <UserID>rzjill</UserID>
  <User2ID>rzjack</User2ID>
  <IfAllowLockErrors>0</IfAllowLockErrors>
  <DispatcherID/>
</TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
```

Output Transaction:

NOTE: If no lock errors are allowed, no locks on the route will be dispatched even if one of them causes a group mismatch, region mismatch, does not exist, is already open or is not in active mode. In this case, one lock on the route is already open and so none of the locks are dispatched. Only the details (result record, lock record and route lock record) of the open lock VLK014 are displayed.

```
<RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>
  <TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <UserID>rzjill</UserID>
    <User2ID>rzjack</User2ID>
    <IfAllowLockErrors>0</IfAllowLockErrors>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_DISPATCH_ROUTE_FAILED_FLMS_LOCKS_ROUTE</ErrorCode>
    <Description>No locks on route TestRte4 have been dispatched. Incompatibility or error encountered between locks and users for route from database.</Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_ERR_DISPATCH_LOCK_SEQ_OPEN</ErrorCode>
      <Description>Lock and route sequence already has a combination dispatched, or sequence is still active from other sequences not being closed out.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK014</LockName>
      <UserID>rzjill</UserID>
      <User2ID />
      <RouteName />
      <OpenDate>2009-08-07T13:38:44.917Z</OpenDate>
      <CloseDate xsi:nil="true" />
      <LockSequence>1</LockSequence>
      <DispatchOrder>0</DispatchOrder>
      <ResultCode>0</ResultCode>
      <IfCloseSealDuress>0</IfCloseSealDuress>
      <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK014</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T21:17:28.343Z</StartDate>
      <LastUsedDate>2009-08-07T13:38:44.917Z</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <IfLockOpen>1</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>0</IfRoute1Issued>
      <IfRoute2Issued>0</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
      <SerialNumber>532214</SerialNumber>
      <Seal>113</Seal>
      <PreviousSeal>85</PreviousSeal>
      <RouteSeal1>113</RouteSeal1>
      <RouteSeal2>0</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>85</PreviousRouteSeal1>
      <PreviousRouteSeal2>0</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>0</OpenTries2>
      <OpenTries3>0</OpenTries3>
      <TransferReturnCode>0</TransferReturnCode>
      <IssuedComboUser1Seq1>613554</IssuedComboUser1Seq1>
```

```

<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>863054</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>11</AuditCount>
<GroupName>some gro</GroupName>
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2>dddddddddddddd</Description2>
<Description3>dddddddddddddd</Description3>
<Description4>dddddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>0</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1 />
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-07T13:38:44.917Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjack</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-07T13:38:29.933Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-07T13:38:30.893Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>

```

Example 3 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/dispatch-all
```

Example Input Transaction (HTTP Post):

```
https://kml-3242/CentranService/rest/route/dispatch-all
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <RouteName>TestRte4</RouteName>
  <User1ID>rzjack</User1ID>
  <User2ID>rzjill</User2ID>
  <IfAllowLockErrors>1</IfAllowLockErrors>
  <DispatcherID/>
</TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
```

Output Transaction:

```
<RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>
  <TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <User1ID>rzjack</User1ID>
    <User2ID>rzjill</User2ID>
    <IfAllowLockErrors>1</IfAllowLockErrors>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>All locks on route TestRte4 have been dispatched.</Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <Description>Lock VLK014 dispatched successfully.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK014</LockName>
      <User1ID>rjrb1</User1ID>
      <User2ID />
      <RouteName>s_route2</RouteName>
      <OpenDate>2009-08-07T13:37:15.497Z</OpenDate>
      <CloseDate>2009-08-07T13:37:17.077Z</CloseDate>
      <LockSequence>1</LockSequence>
      <DispatchOrder>0</DispatchOrder>
      <ResultCode>0</ResultCode>
      <IfCloseSealDuress>0</IfCloseSealDuress>
      <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK014</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T21:17:28.343Z</StartDate>
      <LastUsedDate>2009-08-07T13:37:17.077Z</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <IfLockOpen>0</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>0</IfRoute1Issued>
      <IfRoute2Issued>0</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
      <SerialNumber>532214</SerialNumber>
      <Seal>137</Seal>
      <PreviousSeal>152</PreviousSeal>
      <RouteSeal1>137</RouteSeal1>
      <RouteSeal2>0</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>152</PreviousRouteSeal1>
      <PreviousRouteSeal2>0</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>0</OpenTries2>
      <OpenTries3>0</OpenTries3>
      <TransferReturnCode>0</TransferReturnCode>
      <IssuedComboUser1Seq1>840446</IssuedComboUser1Seq1>
      <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
      <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
      <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
      <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
      <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
      <PreviousComboUser1Seq1>362917</PreviousComboUser1Seq1>
      <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
      <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
      <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
      <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
      <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
      <AuditCount>9</AuditCount>
      <GroupName>some gro</GroupName>
      <OriginalSerialNumber>0</OriginalSerialNumber>
      <Description1>aaaaaaaaaaaaaaaa</Description1>
      <Description2>dddddddddddddd</Description2>
      <Description3>dddddddddddddd</Description3>
      <Description4>dddddddddddddd</Description4>
      <CustomerID>ACustomer</CustomerID>
      <ATMSerialNumber>asdfasd</ATMSerialNumber>
      <UserDefined1 />
```

```

<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rjrb1</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>s_route2</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CenTran</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-07T13:37:15.497Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-08-07T13:37:17.077Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjack</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>s_route2</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-07T13:37:08.143Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-07T13:37:12.777Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran route dispatch all locks transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.

4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 4 - JSON

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/dispatch-all
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/dispatch-all
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "ifAllowLockErrorsField" : false ,
  "ifAllowLockErrorsFieldSpecified" : false ,
  "routeNameField" : "TestRte6" ,
  "user1IDField" : "nrl" ,
  "user2IDField" : ""
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordAndRouteLockRecordField" :
  [
    {
      "lockRecordField" :
      {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "43" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "some customerid" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "test1" ,
        "description2Field" : "test3" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "385692" ,
        "displayIssuedComboUser1Seq2Field" : "" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : false ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : false ,

```

```

        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "385692" ,
        "issuedComboUser1Seq2Field" : "0" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "0" ,
        "lastUsedDateField" : "\Date(1409175163954)\/" ,
        "lockActivationStatusField" : "" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK009" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\Date(1409175163954)\/" ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\Date(1400511514090)\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "61510" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\Date(1400511453237)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "52" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "52" ,
        "previousUser1ID1Field" : "nr1" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRte6" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "118" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "52" ,
        "serialNumberField" : "532009" ,
        "serviceBranchField" : "the new service branch" ,
        "startDateField" : "\Date(1036185306000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "nr1" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {

```

```

        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK009" ,
        "lockSequenceField" : "1" ,
        "openDateField" : "\/Date(1409175163954)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRte6" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "43" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "some customerid" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "test1" ,
        "description2Field" : "test3" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "385692" ,
        "displayIssuedComboUser1Seq2Field" : "709716" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : true ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : true ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "385692" ,
        "issuedComboUser1Seq2Field" : "709716" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "0" ,
        "lastUsedDateField" : "\/Date(1409175164665)\/" ,
        "lockActivationStatusField" : "" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK009" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\/Date(1409175163953)\/" ,
        "openTime2Field" : "\/Date(1409175164665)\/" ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,

```

```

        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\Date(1400511514090)\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "61510" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\Date(1400511453237)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "52" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "52" ,
        "previousUser1ID1Field" : "nr1" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRte6" ,
        "routeName2Field" : "TestRte6" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "118" ,
        "routeSeal2Field" : "128" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "52" ,
        "serialNumberField" : "532009" ,
        "serviceBranchField" : "the new service branch" ,
        "startDateField" : "\Date(1036185306000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "nr1" ,
        "user1ID2Field" : "nr1" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK009" ,
        "lockSequenceField" : "2" ,
        "openDateField" : "\Date(1409175164665)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRte6" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "address1Field" : "" ,
        "address2Field" : ""
    }
}

```

```

"auditCountField" : "13" ,
"bankBranchNameField" : "" ,
"bankModeUserNameArrayField" :
[
] ,
"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "" ,
"closeSealLengthField" : "2" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "asdf" ,
"customerNumberField" : "160080" ,
"description1Field" : "aaaaaaaaaaaaaaaa" ,
"description2Field" : "dddddddddddddd" ,
"description3Field" : "dddddddddddddd" ,
"description4Field" : "dddddddddddddd" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "451283" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : true ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : true ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "451283" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "71" ,
"lastUsedDateField" : "\/Date(1409175165348)\/" ,
"lockActivationStatusField" : "gen1" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK019" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1409175165348)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\/Date(1400511516127)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "742668" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\/Date(1400511451493)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "96" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "96" ,
"previousUser1ID1Field" : "nr1" ,

```

```

        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRte6" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "84" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "96" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "startDateField" : "\/Date(1253111700753)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "nrl" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "1" ,
        "openDateField" : "\/Date(1409175165348)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRte6" ,
        "user1IDField" : "nrl" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "13" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "dddddddddddddd" ,
        "description3Field" : "dddddddddddddd" ,
        "description4Field" : "dddddddddddddd" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "451283" ,
    }
}

```

```

"displayIssuedComboUser1Seq2Field" : "179870" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : true ,
"ifLastRoute2IssuedField" : true ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : true ,
"ifRoute2IssuedField" : true ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "451283" ,
"issuedComboUser1Seq2Field" : "179870" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "71" ,
"lastUsedDateField" : "\Date(1409175165993)\/" ,
"lockActivationStatusField" : "gen1" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK019" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1409175165347)\/" ,
"openTime2Field" : "\Date(1409175165993)\/" ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1400511516127)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "742668" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1400511451493)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "96" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "96" ,
"previousUser1ID1Field" : "nr1" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "TestRte6" ,
"routeName2Field" : "TestRte6" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "84" ,
"routeSeal2Field" : "2" ,
"routeSeal3Field" : "0" ,
"sealField" : "96" ,
"serialNumberField" : "532019" ,
"serviceBranchField" : "the new service branch" ,
"startDateField" : "\Date(1253111700753)\/" ,
"stateField" : "" ,
"timeZoneIDField" : "" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "nr1" ,
"user1ID2Field" : "nr1" ,
"user1ID3Field" : "" ,

```

```

        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "2" ,
        "openDateField" : "\/Date(1409175165993)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRte6" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "13" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "dddddddddddddd" ,
        "description3Field" : "dddddddddddddd" ,
        "description4Field" : "dddddddddddddd" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "CentranSS" ,
        "displayIssuedComboUser1Seq1Field" : "451283" ,
        "displayIssuedComboUser1Seq2Field" : "179870" ,
        "displayIssuedComboUser1Seq3Field" : "898326" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : true ,
        "ifLastRoute3IssuedField" : true ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : true ,
        "ifRoute3IssuedField" : true ,
        "ifSecondLineMaintenanceCallField" : false ,
    }
}

```



```

        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "451283" ,
        "issuedComboUser1Seq2Field" : "179870" ,
        "issuedComboUser1Seq3Field" : "898326" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "71" ,
        "lastUsedDateField" : "\/Date(1409175166672)\/" ,
        "lockActivationStatusField" : "gen1" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\/Date(1409175165347)\/" ,
        "openTime2Field" : "\/Date(1409175165993)\/" ,
        "openTime3Field" : "\/Date(1409175166672)\/" ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\/Date(1400511516127)\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "742668" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\/Date(1400511451493)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "96" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "96" ,
        "previousUser1ID1Field" : "nr1" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRte6" ,
        "routeName2Field" : "TestRte6" ,
        "routeName3Field" : "TestRte6" ,
        "routeSeal1Field" : "84" ,
        "routeSeal2Field" : "2" ,
        "routeSeal3Field" : "152" ,
        "sealField" : "96" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "startDateField" : "\/Date(1253111700753)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "nr1" ,
        "user1ID2Field" : "nr1" ,
        "user1ID3Field" : "nr1" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,

```

```

        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "3" ,
        "openDateField" : "\/Date(1409175166672)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRte6" ,
        "user1IDField" : "nr1" ,
        "user2IDField" : ""
    }
}
] ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "All locks on route TestRte6 have been dispatched."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_DISPATCH_ALL_LOCKS_ROUTEField" :
{
    "dispatcherIDField" : "CentranSS" ,
    "ifAllowLockErrorsField" : false ,
    "ifAllowLockErrorsFieldSpecified" : true ,
    "routeNameField" : "TestRte6" ,
    "user1IDField" : "nr1" ,
    "user2IDField" : ""
}
}

```

3.3.9 Web Service Route Transactions - Dispatch Locks on a Route

CenTran Programming Reference Manual

This transaction dispatches some of the locks on an existing route in the database or from a route file. The locks to be dispatched are specified as route lock records (as defined in the schema) in the input transaction file.

Transaction information required:

- Route Name
- Route User ID 1
- Route User ID 2
- Array of Lock Records to be dispatched on the route:
 - Lock Name
 - Lock Sequence
- Dispatcher ID (Optional) – If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all locks on the route were dispatched successfully). In this case the error code for the transaction would be RC_OK.

PartialSuccess:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'PartialSuccess' only if the transaction is a partial success (some locks on the route were dispatched successfully, and some locks failed).

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole. No route information is displayed if the transaction failed due to reasons like lack of authorization, invalid route name or failure of any other condition that needs to be satisfied before attempting to dispatch a lock on a route. If an attempt was made to dispatch the locks, for each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. The only exception to this rule is when an invalid lock name, invalid User ID or invalid lock sequence is specified as input for a route lock record and in this case only the result record is displayed for that particular route lock record.

NOTE: The result record for the whole transaction has as its result 'Failure'.

NOTE: The output transaction may have one or more 'LockRecordAndRouteLockRecord' elements. Each element is an output unit for each lock that was either successfully dispatched or failed to be dispatched. The unit contains a result record followed by a lock record (if found in the database) and a route lock record (if found in the database).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Locks already open, or otherwise invalid.
- Locks don't exist.
- Users don't exist, or otherwise invalid.
- Route doesn't exist.
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/dispatch
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/dispatch
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_DISPATCH_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <RouteName>TestRte4</RouteName>
  <User1ID>fjrb1</User1ID>
  <User2ID>fjrb2</User2ID>
  <IfAllowLockErrors>0</IfAllowLockErrors>
  <RouteLockRecord>
    <LockName>VLK016</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <RouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <DispatcherID/>
</TRANSACTION_DISPATCH_LOCKS_ROUTE>
```

Output Transaction:

In this case, users fjrb1 and fjrb2 are FLM users and CentranSS is a Special Supervisor. So, none of the locks are dispatched and the error code for the whole transaction is RC_ERR_FLMBOTH_NOT_SAME_MODE_AS_LOCK. Each route lock has its own error code.

```

<RESPONSE DISPATCH LOCKS_ROUTE>
  <TRANSACTION DISPATCH LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <User1ID>fjrb1</User1ID>
    <User2ID>fjrb2</User2ID>
    <IfAllowLockErrors>0</IfAllowLockErrors>
    <RouteLockRecord>
      <LockName>VLK016</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
      <LockName>VLK014</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION DISPATCH_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FLMBOTH_NOT_SAME_MODE_AS_LOCK</ErrorCode>
    <Description>Failure in dispatching all the specified locks on route TestRte4. Dual
mode lock - Both users are not the same mode as the lock.</Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_ERR_FLMBOTH_NOT_SAME_MODE_AS_LOCK</ErrorCode>
      <Description>Dual mode lock - Both users are not the same mode as the lock.
</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK016</LockName>
      <User1ID>rzjill</User1ID>
      <User2ID>rzdiffgroup</User2ID>
      <RouteName>TestRte4</RouteName>
      <OpenDate>2009-08-10T14:17:34.200Z</OpenDate>
      <CloseDate>2009-08-10T14:17:38.017Z</CloseDate>
      <LockSequence>1</LockSequence>
      <DispatchOrder>0</DispatchOrder>
      <ResultCode>0</ResultCode>
      <IfCloseSealDuress>0</IfCloseSealDuress>
      <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK016</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T21:18:27.183Z</StartDate>
      <LastUsedDate>2009-08-10T14:17:38.017Z</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>1</IfDualMode>
      <IfLockOpen>0</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>0</IfRoute1Issued>
      <IfRoute2Issued>0</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
      <SerialNumber>532016</SerialNumber>
      <Seal>37</Seal>
      <PreviousSeal>69</PreviousSeal>
      <RouteSeal1>37</RouteSeal1>
      <RouteSeal2>0</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>69</PreviousRouteSeal1>
      <PreviousRouteSeal2>0</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>0</OpenTries2>
      <OpenTries3>0</OpenTries3>
      <TransferReturnCode>0</TransferReturnCode>
      <IssuedComboUser1Seq1>631429</IssuedComboUser1Seq1>
      <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
      <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
      <IssuedComboUser2Seq1>205616</IssuedComboUser2Seq1>
      <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
      <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
      <PreviousComboUser1Seq1>750929</PreviousComboUser1Seq1>
      <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
      <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
      <PreviousComboUser2Seq1>167217</PreviousComboUser2Seq1>
      <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
      <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
      <AuditCount>21</AuditCount>
      <GroupName />
      <OriginalSerialNumber>0</OriginalSerialNumber>
      <Description1>aaaaaaaaaaaaaaaa</Description1>
      <Description2 />
      <Description3 />
      <Description4 />
      <CustomerID />
      <ATMSerialNumber />
      <UserDefined1 />
      <UserDefined2 />

```

```

<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1>rzdiffgroup</User2ID1>
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-10T14:17:34.200Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-08-10T14:17:38.017Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>0</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1>rzjack</PreviousUser2ID1>
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1 />
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T14:16:33.113Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T14:16:53.443Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FLM1_NOT_SAME_MODE_AS_LOCK</ErrorCode>
    <Description>First user is not the same mode as the lock.</Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <User1ID>rzjill</User1ID>
    <User2ID />
    <RouteName>TestRte4</RouteName>
    <OpenDate>2009-08-10T14:17:33.687Z</OpenDate>
    <CloseDate>2009-08-10T14:17:37.587Z</CloseDate>
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:17:28.343Z</StartDate>
    <LastUsedDate>2009-08-10T14:17:37.587Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>0</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532214</SerialNumber>
  </LockRecord>

```

```

<Seal>36</Seal>
<PreviousSeal>113</PreviousSeal>
<RouteSeal1>36</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>113</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>354646</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
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<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>613554</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>13</AuditCount>
<GroupName>some gro</GroupName>
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2>dddddddddddddd</Description2>
<Description3>dddddddddddddd</Description3>
<Description4>dddddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-10T14:17:33.687Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-08-10T14:17:37.587Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>0</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1 />
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T14:17:29.517Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T14:17:31.170Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_DISPATCH_LOCKS_ROUTE>

```

Example 2 - Partial Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/dispatch
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/dispatch
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_DISPATCH_LOCKS_ROUTE>
<!-- char string -->
<RouteName>TestRte4</RouteName>
<!-- route lock record -->
<RouteLockRecord>
  <LockName>VLK013</LockName>
  <LockSequence>1</LockSequence>
  <UserID>rjrb1</UserID>
</RouteLockRecord>
<!-- route lock record -->
<RouteLockRecord>
  <LockName>VLK014</LockName>
  <LockSequence>1</LockSequence>
  <UserID>rzjill</UserID>
</RouteLockRecord>
<!-- char string -->
<DispatcherID/>
</TRANSACTION_DISPATCH_LOCKS_ROUTE>
```

Output Transaction:

In this example, lock VLK013 does not exist. Therefore an appropriate error code is displayed in the result record. Since no route lock record or lock record for VLK013 exists, only the result record is displayed. Lock VLK014 is dispatched successfully. The error code for the whole transaction is RC_PARTIAL_OK indicating partial success or partial failure, depending on whether you think of the glass as half full or half empty...

```
<RESPONSE_DISPATCH_LOCKS_ROUTE>
  <TRANSACTION_DISPATCH_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <RouteLockRecord>
      <LockName>VLK013</LockName>
      <LockSequence>1</LockSequence>
      <UserID>rjrb1</UserID>
    </RouteLockRecord>
    <RouteLockRecord>
      <LockName>VLK014</LockName>
      <LockSequence>1</LockSequence>
      <UserID>rzjill</UserID>
    </RouteLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_PARTIAL_OK</ErrorCode>
    <Description>Failure in dispatching some of the specified locks on route
    TestRte4.
    </Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_ERR_ROUTE_LOCK_NOT_FOUND</ErrorCode>
      <Description>Route lock record with route name - TestRte4,
      lock name - VLK013, sequence - 1 does not exist.
      </Description>
    </ResultRecord>
  </LockRecordAndRouteLockRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <Description>Lock VLK014 dispatched successfully.</Description>
    </ResultRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK014</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T21:17:28</StartDate>
      <LastUsedDate>2009-02-18T16:00:58</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <IfLockOpen>0</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>1</IfRoute1Issued>
      <IfRoute2Issued>0</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
    </LockRecord>
  </LockRecordAndRouteLockRecord>

```



```

<SerialNumber>532214</SerialNumber>
<CloseSeal>49</CloseSeal>
<PreviousSeal>49</PreviousSeal>
<RouteSeal1>85</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>49</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>456865</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>280202</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>10</AuditCount>
<GroupName>some gro</GroupName>
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2>dddddddddddddd</Description2>
<Description3>dddddddddddddd</Description3>
<Description4>dddddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-18T16:00:58.123Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-02-18T15:54:10.432Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-02-18T15:59:55.421Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK014</LockName>

```



```

    <User1ID>rzjill</User1ID>
    <User2ID />
    <RouteName>TestRte4</RouteName>
    <OpenDate>2009-02-18T16:00:58.289Z</OpenDate>
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_DISPATCH_LOCKS_ROUTE>

```

Example 3 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/dispatch
```

Example Input Transaction (HTTP Post):

```
https://kml-3242/CentranService/rest/route/dispatch
```

Example Input Transaction (HTTP Body):

```

<TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
  <!-- char string -->
  <RouteName>TestRte4</RouteName>
  <!-- char string -->
  <User1ID>rzjill</User1ID>
  <!-- char string -->
  <User2ID>rzjack</User2ID>
  <!-- bool -->
  <IfAllowLockErrors>0</IfAllowLockErrors>
  <!-- char string -->
  <DispatcherID/>
</TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>

```

Output Transaction:

```

<RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>
  <TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte4</RouteName>
    <User1ID>rzjill</User1ID>
    <User2ID>rzjack</User2ID>
    <IfAllowLockErrors>0</IfAllowLockErrors>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DISPATCH_ALL_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>All locks on route TestRte4 have been dispatched.
  </Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <Description>Lock VLK014 dispatched successfully.
    </Description>
  </ResultRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:17:28</StartDate>
    <LastUsedDate>2009-02-18T00:15:32</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>1</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532214</SerialNumber>
    <CloseSeal>152</CloseSeal>
    <PreviousSeal>152</PreviousSeal>
    <RouteSeal1>137</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>152</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>113460</IssuedComboUser1Seq1>
  </LockRecord>

```

```

<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>956628</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>8</AuditCount>
<GroupName>some gro</GroupName>
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2>dddddddddddddd</Description2>
<Description3>dddddddddddddd</Description3>
<Description4>dddddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-18T00:15:32.894Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-02-17T22:11:03.945Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-02-18T00:12:15.653Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK014</LockName>
  <User1ID>rzjill</User1ID>
  <User2ID />
  <RouteName>TestRte4</RouteName>
  <OpenDate>2009-02-18T00:15:32.222Z</OpenDate>
  <CloseDate xsi:nil="true" />
  <LockSequence>1</LockSequence>
  <DispatchOrder>0</DispatchOrder>
  <ResultCode>0</ResultCode>
  <IfCloseSealDuress>0</IfCloseSealDuress>
  <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>

```

```

<Result>Success</Result>
<ErrorCode>RC_OK</ErrorCode>
<Description>Lock VLK016 dispatched successfully.
</Description>
</ResultRecord>
<LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK016</LockName>
  <RecordType>A</RecordType>
  <StartDate>2002-11-01T21:18:27</StartDate>
  <LastUsedDate>2009-02-18T00:15:32</LastUsedDate>
  <CustomerNumber>123456</CustomerNumber>
  <LockMode>R</LockMode>
  <IfDualMode>1</IfDualMode>
  <IfLockOpen>0</IfLockOpen>
  <IfForcedClosed>0</IfForcedClosed>
  <IfRoute1Issued>1</IfRoute1Issued>
  <IfRoute2Issued>0</IfRoute2Issued>
  <IfRoute3Issued>0</IfRoute3Issued>
  <IfNoAlarm>0</IfNoAlarm>
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <IfActivationCall>0</IfActivationCall>
  <SerialNumber>532016</SerialNumber>
  <CloseSeal>67</CloseSeal>
  <PreviousSeal>67</PreviousSeal>
  <RouteSeal1>132</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>147</PreviousRouteSeal1>
  <PreviousRouteSeal2>67</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>579901</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>986190</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>8573</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>729333</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>219975</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>930736</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <AuditCount>15</AuditCount>
  <GroupName />
  <OriginalSerialNumber>0</OriginalSerialNumber>
  <Description1>aaaaaaaaaaaaaaaa</Description1>
  <Description2 />
  <Description3 />
  <Description4 />
  <CustomerID />
  <ATMSerialNumber />
  <UserDefined1 />
  <UserDefined2 />
  <UserDefined3 />
  <UserDefined4 />
  <Region>TestRegionD</Region>
  <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
  <IfLastRoute1Issued>1</IfLastRoute1Issued>
  <IfLastRoute2Issued>0</IfLastRoute2Issued>
  <IfLastRoute3Issued>0</IfLastRoute3Issued>
  <User1ID1>rzjill</User1ID1>
  <User1ID2 />
  <User1ID3 />
  <User2ID1>rzjack</User2ID1>
  <User2ID2 />
  <User2ID3 />
  <RouteName1>TestRte4</RouteName1>
  <RouteName2 />
  <RouteName3 />
  <DispatcherID1>CentranSS</DispatcherID1>
  <DispatcherID2 />
  <DispatcherID3 />
  <OpenTime1>2009-02-18T00:15:32.865Z</OpenTime1>
  <OpenTime2 xsi:nil="true" />
  <OpenTime3 xsi:nil="true" />
  <CloseTime1 xsi:nil="true" />
  <CloseTime2 xsi:nil="true" />
  <CloseTime3 xsi:nil="true" />
  <IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
  <IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
  <IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
  <PreviousUser1ID1>rbob</PreviousUser1ID1>
  <PreviousUser1ID2>rbob</PreviousUser1ID2>
  <PreviousUser1ID3 />
  <PreviousUser2ID1>rdave</PreviousUser2ID1>
  <PreviousUser2ID2>rdave</PreviousUser2ID2>
  <PreviousUser2ID3 />
  <PreviousRouteName1>TestRoute1</PreviousRouteName1>
  <PreviousRouteName2>TestRoute1</PreviousRouteName2>
  <PreviousRouteName3 />
  <PreviousOpenTime1>2005-02-22T13:50:15.875Z</PreviousOpenTime1>
  <PreviousOpenTime2>2005-02-22T13:50:16.345Z</PreviousOpenTime2>

```

```

<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2005-02-22T14:41:44.423Z</PreviousCloseTime1>
<PreviousCloseTime2>2005-02-22T14:41:45.543Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK016</LockName>
  <User1ID>rzjill</User1ID>
  <User2ID>rzjack</User2ID>
  <RouteName>TestRte4</RouteName>
  <OpenDate>2009-02-18T00:15:32.265Z</OpenDate>
  <CloseDate xsi:nil="true" />
  <LockSequence>1</LockSequence>
  <DispatchOrder>0</DispatchOrder>
  <ResultCode>0</ResultCode>
  <IfCloseSealDuress>0</IfCloseSealDuress>
  <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_DISPATCH_ALL_LOCKS_ROUTE>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran route dispatch locks transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 4 - JSON

This example dispatches lock **VLK010** on route sequence 1 and 2, lock **VLK012** on route sequence 1 and 2, and lock **VLK013** on route sequence 1. The locks are dispatched on route **TestRoute8** to users **rbob** and **rdave**. Lock **VLK010** is dual mode. locks **VLK012** and **VLK013** are single mode.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/dispatch
```

Example Input Transaction (HTTP Post) - JSON:

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "ifAllowLockErrorsField" : false ,
  "ifAllowLockErrorsFieldSpecified" : false ,
  "routeLockRecordField" :
  [
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK010" ,
      "lockSequenceField" : "1" ,
      "openDateField" : null ,
      "openDateFieldSpecified" : false ,
      "resultCodeField" : null ,
      "routeNameField" : null ,
      "user1IDField" : null ,
      "user2IDField" : null
    } ,
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK010" ,
      "lockSequenceField" : "2" ,
      "openDateField" : null ,
      "openDateFieldSpecified" : false ,
      "resultCodeField" : null ,
      "routeNameField" : null ,
      "user1IDField" : null ,
      "user2IDField" : null
    } ,
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK012" ,
      "lockSequenceField" : "1" ,
      "openDateField" : null ,
      "openDateFieldSpecified" : false ,
      "resultCodeField" : null ,
      "routeNameField" : null ,
      "user1IDField" : null ,
      "user2IDField" : null
    } ,
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK012" ,
      "lockSequenceField" : "2" ,
      "openDateField" : null ,
      "openDateFieldSpecified" : false ,
      "resultCodeField" : null ,
      "routeNameField" : null ,
      "user1IDField" : null ,
      "user2IDField" : null
    } ,
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK013" ,
      "lockSequenceField" : "1" ,
      "openDateField" : null ,
      "openDateFieldSpecified" : false ,

```

```

        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    }
} ,
"routeNameField" : "TestRoute8" ,
"user1IDField" : "rbob" ,
"user2IDField" : "rdave"
}

```

Example Output Transaction - JSON:

```

{
  "lockRecordAndRouteLockRecordField" :
  [
    {
      "lockRecordField" :
      {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "46" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "1246576928" ,
        "bankOpenWindowField" : "1246576928" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "493104" ,
        "displayIssuedComboUser1Seq2Field" : "" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "704506" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : true ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : false ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : false ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "493104" ,
        "issuedComboUser1Seq2Field" : "0" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "704506" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "1246576928" ,
        "lastUsedDateField" : "\/Date(1409322149528)\/" ,
        "lockActivationStatusField" : "" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK010" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\/Date(1409322149528)\/" ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,

```

```

        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\/Date(1400511514333)\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "484723" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "196776" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\/Date(1400511450060)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "3" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "3" ,
        "previousUser1ID1Field" : "rjohn" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "rbob" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRoute8" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "65" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "3" ,
        "serialNumberField" : "532010" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\/Date(1036188938000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rbob" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "rdave" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "1" ,
        "openDateField" : "\/Date(1409322149528)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : "rdave"
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "46" ,

```

```

"bankBranchNameField" : "" ,
"bankModeUserNameArrayField" :
[
] ,
"bankOpenDelayField" : "1246576928" ,
"bankOpenWindowField" : "1246576928" ,
"cityField" : "" ,
"closeSealLengthField" : "2" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "" ,
"customerNumberField" : "123456" ,
"description1Field" : "aaaaaaaaaaaaaaaa" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "CentranSS" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "493104" ,
"displayIssuedComboUser1Seq2Field" : "799569" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "704506" ,
"displayIssuedComboUser2Seq2Field" : "001072" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDualModeField" : true ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : true ,
"ifLastRoute2IssuedField" : true ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : true ,
"ifRoute2IssuedField" : true ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "493104" ,
"issuedComboUser1Seq2Field" : "799569" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "704506" ,
"issuedComboUser2Seq2Field" : "1072" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "1246576928" ,
"lastUsedDateField" : "\Date(1409322150415)\/" ,
"lockActivationStatusField" : "" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK010" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1409322149527)\/" ,
"openTime2Field" : "\Date(1409322150415)\/" ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1400511514333)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "484723" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "196776" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1400511450060)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "3" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "3" ,
"previousUser1ID1Field" : "rjohn" ,
"previousUser1ID2Field" : "" ,

```



```

        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "rbob" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRoute8" ,
        "routeName2Field" : "TestRoute8" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "65" ,
        "routeSeal2Field" : "3" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "3" ,
        "serialNumberField" : "532010" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\\Date(1036188938000)\\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rbob" ,
        "user1ID2Field" : "rbob" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "rdave" ,
        "user2ID2Field" : "rdave" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zipField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "2" ,
        "openDateField" : "\\Date(1409322150415)\\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : "rdave"
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "14" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "418275" ,
        "displayIssuedComboUser1Seq2Field" : "" ,
    }
}

```

```

"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : true ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : true ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "418275" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\Date(1409322151140)\/" ,
"lockActivationStatusField" : "" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK012" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1409322151140)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1400511514610)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "793198" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1400511449583)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "150" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "150" ,
"previousUser1ID1Field" : "rjrb7" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "TestRoute8" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "68" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "150" ,
"serialNumberField" : "532012" ,
"serviceBranchField" : "" ,
"startDateField" : "\Date(1036188988000)\/" ,
"stateField" : "" ,
"timeZoneIDField" : "" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "rbob" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,

```

```

        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "1" ,
        "openDateField" : "\\Date(1409322151140)\" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "14" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "418275" ,
        "displayIssuedComboUser1Seq2Field" : "136541" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : true ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : true ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
    }
}

```

```

"issuedComboUser1Seq1Field" : "418275" ,
"issuedComboUser1Seq2Field" : "136541" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\Date(1409322151786)\/" ,
"lockActivationStatusField" : "" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK012" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1409322151140)\/" ,
"openTime2Field" : "\Date(1409322151786)\/" ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1400511514610)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "793198" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1400511449583)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "150" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "150" ,
"previousUser1ID1Field" : "rjrb7" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "TestRoute8" ,
"routeName2Field" : "TestRoute8" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "68" ,
"routeSeal2Field" : "80" ,
"routeSeal3Field" : "0" ,
"sealField" : "150" ,
"serialNumberField" : "532012" ,
"serviceBranchField" : "" ,
"startDateField" : "\Date(1036188988000)\/" ,
"stateField" : "" ,
"timeZoneIDField" : "" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "rbob" ,
"user1ID2Field" : "rbob" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zIPField" : ""
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Success"
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"routeLockRecordField" :
{
    "closeDateField" : null ,
    "closeDateFieldSpecified" : false ,
    "dispatchOrderField" : "0" ,

```

```

        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK012" ,
        "lockSequenceField" : "2" ,
        "openDateField" : "\Date(1409322151786)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "22" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "1246576928" ,
        "bankOpenWindowField" : "1246576928" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "604313" ,
        "displayIssuedComboUser1Seq2Field" : "" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : false ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : false ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "604313" ,
        "issuedComboUser1Seq2Field" : "0" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "1246576928" ,
        "lastUsedDateField" : "\Date(1409322152470)\/" ,
        "lockActivationStatusField" : "" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK013" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\Date(1409322152470)\/" ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
    }
}

```

```

        "previousCloseTime1Field" : "\Date(1400511514857)\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "748915" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\Date(1400511452980)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "23" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "23" ,
        "previousUser1ID1Field" : "nr2" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRoute8" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "151" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "23" ,
        "serialNumberField" : "532013" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\Date(1036189019000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rbob" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK013" ,
        "lockSequenceField" : "1" ,
        "openDateField" : "\Date(1409322152470)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : ""
    }
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "All locks on route TestRoute8 have been dispatched."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,

```

```

        "resultField" : 0
    } ,
    "tTRANSACTION_DISPATCH_LOCKS_ROUTEField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "ifAllowLockErrorsField" : false ,
        "ifAllowLockErrorsFieldSpecified" : true ,
        "routeLockRecordField" :
        [
            {
                "closeDateField" : null ,
                "closeDateFieldSpecified" : false ,
                "dispatchOrderField" : null ,
                "ifCloseSealDuressField" : false ,
                "ifCloseSealDuressFieldSpecified" : false ,
                "ifCloseSealLowBatteryField" : false ,
                "ifCloseSealLowBatteryFieldSpecified" : false ,
                "lockNameField" : "VLK010" ,
                "lockSequenceField" : "1" ,
                "openDateField" : null ,
                "openDateFieldSpecified" : false ,
                "resultCodeField" : null ,
                "routeNameField" : null ,
                "user1IDField" : null ,
                "user2IDField" : null
            } ,
            {
                "closeDateField" : null ,
                "closeDateFieldSpecified" : false ,
                "dispatchOrderField" : null ,
                "ifCloseSealDuressField" : false ,
                "ifCloseSealDuressFieldSpecified" : false ,
                "ifCloseSealLowBatteryField" : false ,
                "ifCloseSealLowBatteryFieldSpecified" : false ,
                "lockNameField" : "VLK010" ,
                "lockSequenceField" : "2" ,
                "openDateField" : null ,
                "openDateFieldSpecified" : false ,
                "resultCodeField" : null ,
                "routeNameField" : null ,
                "user1IDField" : null ,
                "user2IDField" : null
            } ,
            {
                "closeDateField" : null ,
                "closeDateFieldSpecified" : false ,
                "dispatchOrderField" : null ,
                "ifCloseSealDuressField" : false ,
                "ifCloseSealDuressFieldSpecified" : false ,
                "ifCloseSealLowBatteryField" : false ,
                "ifCloseSealLowBatteryFieldSpecified" : false ,
                "lockNameField" : "VLK012" ,
                "lockSequenceField" : "1" ,
                "openDateField" : null ,
                "openDateFieldSpecified" : false ,
                "resultCodeField" : null ,
                "routeNameField" : null ,
                "user1IDField" : null ,
                "user2IDField" : null
            } ,
            {
                "closeDateField" : null ,
                "closeDateFieldSpecified" : false ,
                "dispatchOrderField" : null ,
                "ifCloseSealDuressField" : false ,
                "ifCloseSealDuressFieldSpecified" : false ,
                "ifCloseSealLowBatteryField" : false ,
                "ifCloseSealLowBatteryFieldSpecified" : false ,
                "lockNameField" : "VLK012" ,
                "lockSequenceField" : "2" ,
                "openDateField" : null ,
                "openDateFieldSpecified" : false ,
                "resultCodeField" : null ,
                "routeNameField" : null ,
                "user1IDField" : null ,
                "user2IDField" : null
            } ,
            {
                "closeDateField" : null ,
                "closeDateFieldSpecified" : false ,
                "dispatchOrderField" : null ,
                "ifCloseSealDuressField" : false ,
                "ifCloseSealDuressFieldSpecified" : false ,
                "ifCloseSealLowBatteryField" : false ,
                "ifCloseSealLowBatteryFieldSpecified" : false ,
                "lockNameField" : "VLK013" ,
                "lockSequenceField" : "1" ,
                "openDateField" : null ,
                "openDateFieldSpecified" : false ,
                "resultCodeField" : null ,
            }
        ]
    }

```

```
        "routeNameField" : null ,  
        "user1IDField" : null ,  
        "user2IDField" : null  
    }  
    ] ,  
    "routeNameField" : "TestRoute8" ,  
    "user1IDField" : "rbob" ,  
    "user2IDField" : "rdave"  
} }
```


3.3.10 Web Service Route Transactions - Reassign All Locks On a Route

CenTran Programming Reference Manual

This transaction reassigns all locks on an existing route in the database.

Transaction information required:

- Route Name
- Route User ID 1
- Route User ID 2
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all locks on the route were reassigned successfully). In this case the error code for the transaction would be RC_OK.

PartialSuccess:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole.

Each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. The only exception to this rule is when an invalid lock name, invalid User ID or invalid lock sequence is specified as input for a route lock record and in this case only the result record is displayed for that particular route lock record.

NOTE: The result record for the whole transaction has as its result 'PartialSuccess' if the transaction is a partial success (some locks were reassigned successfully and the others failed). In the case of partial success, the error code for the transaction would be RC_ERR_REASSIGN_ROUTE_SOME_NOT_REASSIGNED.

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole. No route information is displayed if the transaction failed due to reasons like lack of authorization or failure of any other condition that needs to be satisfied before attempting to reassign the locks on a route.

If an attempt was made to reassign the locks, for each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. The only exception to this rule is when an invalid lock name, invalid User ID or invalid lock sequence is specified as input for a route lock record and in this case only the result record is displayed for that particular route lock record.

NOTE: The result record for the whole transaction has as its result 'Failure' if the transaction is a complete failure (none of the locks were reassigned on the route). In the case of complete failure, the error code for the transaction will vary depending on the error.

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Locks not open, or otherwise invalid.
- Locks don't exist.
- Users don't exist, or otherwise invalid.
- Route doesn't exist or otherwise invalid.
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/reassign-all
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/reassign-all
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE>
<!-- char string -->
<RouteName>TestRte1</RouteName>
<!-- char string -->
<User1ID>rzjill</User1ID>
<!-- char string -->
<User2ID>rzjack</User2ID>
<!-- char string -->
<DispatcherID/>
</TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE>
```

Output Transaction:

In this example, none of the locks are reassigned because the region control is set and the dispatcher's region (local in scope) does not match the route's region.

```
<RESPONSE_REASSIGN_ALL_LOCKS_ROUTE>
<TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <RouteName>TestRte1</RouteName>
  <User1ID>rzjill</User1ID>
  <User2ID>rzjack</User2ID>
  <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE>
<ResultRecord>
```

```

<Result>Failure</Result>
<ErrorCode>RC_ERR_DISPATCHER_REGION_DOES_NOT_
MATCH_ROUTE_REGION</ErrorCode>
<Description>Dispatcher belongs to a local region. The dispatcher's
region does not match the route's region.
</Description>
</ResultRecord>
</RESPONSE_REASSIGN_ALL_LOCKS_ROUTE>

```

Example 2 - Partial Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/reassign-all
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/reassign-all
```

Example Input Transaction (HTTP Body):

```

<TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE>
<!-- char string -->
<RouteName>TestRte4</RouteName>
<!-- char string -->
<User1ID>rzjack</User1ID>
<!-- char string -->
<User2ID>rzjill</User2ID>
<!-- char string -->
<DispatcherID>
</TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE>

```

Output Transaction:

In this example, lock VLK014 was reassigned successfully but lock VLK016 wasn't because it was not open. The error code for the whole transaction is 'RC_PARTIAL_OK RC_ERR_REASSIGN_ROUTE_SOME_NOT_REASSIGNED' which indicates that the transaction partially succeeded and that some locks on the route were not reassigned.

```

<RESPONSE_REASSIGN_ALL_LOCKS_ROUTE>
<TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <RouteName>TestRte4</RouteName>
  <User1ID>rzjack</User1ID>
  <User2ID>rzjill</User2ID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_REASSIGN_ALL_LOCKS_ROUTE>
<ResultRecord>
  <Result>Failure</Result>
  <ErrorCode>RC_PARTIAL_OK
RC_ERR_REASSIGN_ROUTE_SOME_NOT_REASSIGNED
</ErrorCode>
  <Description>Some locks on route TestRte4 have not been reassigned.
</Description>
</ResultRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLK014 reassigned successfully.</Description>
  </ResultRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:17:28</StartDate>
    <LastUsedDate>2009-02-18T16:00:58</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>1</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532214</SerialNumber>
    <CloseSeal>49</CloseSeal>
    <PreviousSeal>49</PreviousSeal>
    <RouteSeal1>85</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>49</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>863054</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>

```

```

<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>280202</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>10</AuditCount>
<GroupName>some gro</GroupName>
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2>dddddddddddddd</Description2>
<Description3>dddddddddddddd</Description3>
<Description4>dddddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjack</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-02-18T16:00:58.673Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-02-18T15:54:10.542Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-02-18T15:59:55.344Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK014</LockName>
  <User1ID>rzjack</User1ID>
  <User2ID />
  <RouteName>TestRte4</RouteName>
  <OpenDate>2009-02-18T16:00:58.674Z</OpenDate>
  <CloseDate xsi:nil="true" />
  <LockSequence>1</LockSequence>
  <DispatchOrder>0</DispatchOrder>
  <ResultCode>0</ResultCode>
  <IfCloseSealDuress>0</IfCloseSealDuress>
  <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_LOCK_NOT_OPEN</ErrorCode>
    <Description>Lock not open.</Description>
  </ResultRecord>

```

```

</ResultRecord>
<LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLK016</LockName>
  <RecordType>A</RecordType>
  <StartDate>2002-11-01T21:18:27</StartDate>
  <LastUsedDate>2009-02-18T00:34:56</LastUsedDate>
  <CustomerNumber>123456</CustomerNumber>
  <LockMode>R</LockMode>
  <IfDualMode>1</IfDualMode>
  <IfLockOpen>0</IfLockOpen>
  <IfForcedClosed>0</IfForcedClosed>
  <IfRoute1Issued>0</IfRoute1Issued>
  <IfRoute2Issued>0</IfRoute2Issued>
  <IfRoute3Issued>0</IfRoute3Issued>
  <IfNoAlarm>0</IfNoAlarm>
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <IfActivationCall>0</IfActivationCall>
  <SerialNumber>532016</SerialNumber>
  <CloseSeal>132</CloseSeal>
  <PreviousSeal>67</PreviousSeal>
  <RouteSeal1>132</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>147</PreviousRouteSeal1>
  <PreviousRouteSeal2>67</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>579901</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>986190</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>8573</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>729333</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>219975</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>930736</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <AuditCount>16</AuditCount>
  <GroupName />
  <OriginalSerialNumber>0</OriginalSerialNumber>
  <Description1>aaaaaaaaaaaaaaaa</Description1>
  <Description2 />
  <Description3 />
  <Description4 />
  <CustomerID />
  <ATMSerialNumber />
  <UserDefined1 />
  <UserDefined2 />
  <UserDefined3 />
  <UserDefined4 />
  <Region>TestRegionD</Region>
  <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
  <IfLastRoute1Issued>1</IfLastRoute1Issued>
  <IfLastRoute2Issued>0</IfLastRoute2Issued>
  <IfLastRoute3Issued>0</IfLastRoute3Issued>
  <User1ID1>rzjill</User1ID1>
  <User1ID2 />
  <User1ID3 />
  <User2ID1>rzjack</User2ID1>
  <User2ID2 />
  <User2ID3 />
  <RouteName1>TestRte4</RouteName1>
  <RouteName2 />
  <RouteName3 />
  <DispatcherID1>CentranSS</DispatcherID1>
  <DispatcherID2 />
  <DispatcherID3 />
  <OpenTime1>2009-02-18T00:15:32.645Z</OpenTime1>
  <OpenTime2 xsi:nil="true" />
  <OpenTime3 xsi:nil="true" />
  <CloseTime1>2009-02-18T00:34:56.672Z</CloseTime1>
  <CloseTime2 xsi:nil="true" />
  <CloseTime3 xsi:nil="true" />
  <IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
  <IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
  <IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
  <PreviousUser1ID1>rbob</PreviousUser1ID1>
  <PreviousUser1ID2>rbob</PreviousUser1ID2>
  <PreviousUser1ID3 />
  <PreviousUser2ID1>rdave</PreviousUser2ID1>
  <PreviousUser2ID2>rdave</PreviousUser2ID2>
  <PreviousUser2ID3 />
  <PreviousRouteName1>TestRoute1</PreviousRouteName1>
  <PreviousRouteName2>TestRoute1</PreviousRouteName2>
  <PreviousRouteName3 />
  <PreviousOpenTime1>2005-02-22T13:50:15.274Z</PreviousOpenTime1>
  <PreviousOpenTime2>2005-02-22T13:50:16.564Z</PreviousOpenTime2>
  <PreviousOpenTime3 xsi:nil="true" />
  <PreviousCloseTime1>2005-02-22T14:41:44.278Z</PreviousCloseTime1>
  <PreviousCloseTime2>2005-02-22T14:41:45.656Z</PreviousCloseTime2>
  <PreviousCloseTime3 xsi:nil="true" />

```

```

        <ServiceBranch>the new service branch</ServiceBranch>
        <Address1 />
        <Address2 />
        <City />
        <State />
        <ZIP />
        <Country />
        <KeyCloseSeal>0</KeyCloseSeal>
        <LockHardwareModel />
        <BankBranchName />
        <BankOpenDelay>0</BankOpenDelay>
        <BankOpenWindow>0</BankOpenWindow>
        <LockActivationStatus />
        <LockDispatchStatus />
    </LockRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK016</LockName>
        <User1ID>rzjill</User1ID>
        <User2ID>rzjack</User2ID>
        <RouteName>TestRte4</RouteName>
        <OpenDate>2009-02-18T00:15:32</OpenDate>
        <CloseDate>2009-02-18T00:34:56</CloseDate>
        <LockSequence>1</LockSequence>
        <DispatchOrder>0</DispatchOrder>
        <ResultCode>0</ResultCode>
        <IfCloseSealDuress>0</IfCloseSealDuress>
        <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_REASSIGN_ALL_LOCKS_ROUTE>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran route reassign all locks transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

In this example, all locks on route **TestRte6** are reassigned to lock user **rdave**. All of the locks on the route are in single mode to open.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/reassign-all
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/reassign-all
```

Example Input Transaction (HTTP Body) - JSON:

```
{
    "dispatcherIDField" : null ,
    "routeNameField" : "TestRte6" ,
    "user1IDField" : "rdave" ,
    "user2IDField" : ""
}
```

Example Output Transaction - JSON:

```
{
    "lockRecordAndRouteLockRecordField" :
    [
        {
            "lockRecordField" :
            {
                "aTMSerialNumberField" : "" ,
                "address1Field" : "" ,
                "address2Field" : "" ,
                "auditCountField" : "43" ,
                "bankBranchNameField" : "" ,
                "bankModeUserNameArrayField" :
                [
                ] ,
                "bankOpenDelayField" : "0" ,
                "bankOpenWindowField" : "0" ,
                "cityField" : "" ,
                "closeSealLengthField" : "2" ,
                "closeTime1Field" : null ,
                "closeTime2Field" : null ,
                "closeTime3Field" : null ,
                "countryField" : "" ,
                "customerIDField" : "some customerid" ,
                "customerNumberField" : "123456" ,
                "description1Field" : "test1" ,
                "description2Field" : "test3" ,
                "description3Field" : "" ,
                "description4Field" : "" ,
                "dispatcherID1Field" : "CentranSS" ,
                "dispatcherID2Field" : "CentranSS" ,
                "dispatcherID3Field" : "" ,
                "displayIssuedComboUser1Seq1Field" : "143883" ,
                "displayIssuedComboUser1Seq2Field" : "709716" ,
                "displayIssuedComboUser1Seq3Field" : "" ,
                "displayIssuedComboUser2Seq1Field" : "" ,
                "displayIssuedComboUser2Seq2Field" : "" ,
                "displayIssuedComboUser2Seq3Field" : "" ,
                "duressDateField" : null ,
                "groupNameField" : " " ,
                "ifActivationCallField" : false ,
                "ifDualModeField" : false ,
                "ifForcedClosedField" : false ,
                "ifLastRoute1IssuedField" : true ,
                "ifLastRoute2IssuedField" : true ,
                "ifLastRoute3IssuedField" : false ,
                "ifLegacyImportField" : false ,
                "ifLockOpenField" : false ,
                "ifNoAlarmField" : false ,
                "ifPreviousRoute1IssuedField" : false ,
                "ifPreviousRoute2IssuedField" : false ,
                "ifPreviousRoute3IssuedField" : false ,
                "ifRoute1IssuedField" : true ,
                "ifRoute2IssuedField" : true ,
                "ifRoute3IssuedField" : false ,
                "ifSecondLineMaintenanceCallField" : false ,
                "ifUnassignedOpenCallField" : false ,
                "issuedComboUser1Seq1Field" : "143883" ,
                "issuedComboUser1Seq2Field" : "709716" ,
                "issuedComboUser1Seq3Field" : "0" ,
                "issuedComboUser2Seq1Field" : "0" ,
                "issuedComboUser2Seq2Field" : "0" ,
                "issuedComboUser2Seq3Field" : "0" ,
                "keyCloseSealField" : "0" ,
                "lastUsedDateField" : "\\Date(1409175164667)\\/" ,
                "lockActivationStatusField" : "" ,
                "lockDispatchStatusField" : "" ,
                "lockHardwareModelField" : "" ,
                "lockModeField" : 1 ,
                "lockNameField" : "VLK009" ,
                "lowBatteryDateField" : null ,
                "networkAddressField" : "" ,
                "networkPortField" : "0" ,
                "openTime1Field" : "\\Date(1409175163953)\\/" ,
                "openTime2Field" : "\\Date(1409175164667)\\/" ,
                "openTime3Field" : null ,
                "openTries1Field" : "0" ,
                "openTries2Field" : "0" ,
                "openTries3Field" : "0" ,
                "originalSerialNumberField" : "000000" ,
                "previousCloseTime1Field" : "\\Date(1400511514090)\\/" ,
                "previousCloseTime2Field" : null ,
            }
        }
    ]
}
```

```

        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "61510" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\/Date(1400511453237)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "52" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "52" ,
        "previousUser1ID1Field" : "nr1" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRte6" ,
        "routeName2Field" : "TestRte6" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "118" ,
        "routeSeal2Field" : "128" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "52" ,
        "serialNumberField" : "532009" ,
        "serviceBranchField" : "the new service branch" ,
        "startDateField" : "\/Date(1036185306000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rdave" ,
        "user1ID2Field" : "nr1" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK009" ,
        "lockSequenceField" : "1" ,
        "openDateField" : "\/Date(1409175163953)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRte6" ,
        "user1IDField" : "rdave" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "43" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
    }
}

```



```

"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "" ,
"closeSealLengthField" : "2" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "some customerid" ,
"customerNumberField" : "123456" ,
"description1Field" : "test1" ,
"description2Field" : "test3" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "CentranSS" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "143883" ,
"displayIssuedComboUser1Seq2Field" : "467907" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : true ,
"ifLastRoute2IssuedField" : true ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : true ,
"ifRoute2IssuedField" : true ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "143883" ,
"issuedComboUser1Seq2Field" : "467907" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\Date(1409175164667)\\" ,
"lockActivationStatusField" : "" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK009" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1409175163953)\\" ,
"openTime2Field" : "\Date(1409175164667)\\" ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1400511514090)\\" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "61510" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1400511453237)\\" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "52" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "52" ,
"previousUser1ID1Field" : "nr1" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : ""

```



```

        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRte6" ,
        "routeName2Field" : "TestRte6" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "118" ,
        "routeSeal2Field" : "128" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "52" ,
        "serialNumberField" : "532009" ,
        "serviceBranchField" : "the new service branch" ,
        "startDateField" : "\\Date(1036185306000)\\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rdave" ,
        "user1ID2Field" : "rdave" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK009" ,
        "lockSequenceField" : "2" ,
        "openDateField" : "\\Date(1409175164667)\\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRte6" ,
        "user1IDField" : "rdave" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "asdfas" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "13" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "dddddddddddddd" ,
        "description3Field" : "dddddddddddddd" ,
        "description4Field" : "dddddddddddddd" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "CentranSS" ,
        "displayIssuedComboUser1Seq1Field" : "219473" ,
        "displayIssuedComboUser1Seq2Field" : "179870" ,
        "displayIssuedComboUser1Seq3Field" : "898326" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : ""
    }
}

```

```

"duressDateField" : null ,
"groupNameField" : " " ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : true ,
"ifLastRoute2IssuedField" : true ,
"ifLastRoute3IssuedField" : true ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : true ,
"ifRoute2IssuedField" : true ,
"ifRoute3IssuedField" : true ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "219473" ,
"issuedComboUser1Seq2Field" : "179870" ,
"issuedComboUser1Seq3Field" : "898326" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "71" ,
"lastUsedDateField" : "\/Date(1409175166673)\/" ,
"lockActivationStatusField" : "gen1" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK019" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1409175165347)\/" ,
"openTime2Field" : "\/Date(1409175165993)\/" ,
"openTime3Field" : "\/Date(1409175166673)\/" ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\/Date(1400511516127)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "742668" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\/Date(1400511451493)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "96" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "96" ,
"previousUser1ID1Field" : "nr1" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "TestRte6" ,
"routeName2Field" : "TestRte6" ,
"routeName3Field" : "TestRte6" ,
"routeSeal1Field" : "84" ,
"routeSeal2Field" : "2" ,
"routeSeal3Field" : "152" ,
"sealField" : "96" ,
"serialNumberField" : "532019" ,
"serviceBranchField" : "the new service branch" ,
"startDateField" : "\/Date(1253111700753)\/" ,
"stateField" : "" ,
"timeZoneIDField" : "" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "rdave" ,
"user1ID2Field" : "nr1" ,
"user1ID3Field" : "nr1" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,

```

```

        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zipField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "1" ,
        "openDateField" : "\\Date(1409175165347)\\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRte6" ,
        "user1IDField" : "rdave" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "atMSerialNumberField" : "asdfasd" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "13" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "dddddddddddddd" ,
        "description3Field" : "dddddddddddddd" ,
        "description4Field" : "dddddddddddddd" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "CentranSS" ,
        "displayIssuedComboUser1Seq1Field" : "219473" ,
        "displayIssuedComboUser1Seq2Field" : "937961" ,
        "displayIssuedComboUser1Seq3Field" : "898326" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : true ,
        "ifLastRoute3IssuedField" : true ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : true ,
        "ifRoute3IssuedField" : true ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "219473" ,
        "issuedComboUser1Seq2Field" : "937961" ,
        "issuedComboUser1Seq3Field" : "898326" ,
        "issuedComboUser2Seq1Field" : "0" ,
    }
}

```

```

"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "71" ,
"lastUsedDateField" : "\Date(1409175166673)\/" ,
"lockActivationStatusField" : "gen1" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK019" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1409175165347)\/" ,
"openTime2Field" : "\Date(1409175165993)\/" ,
"openTime3Field" : "\Date(1409175166673)\/" ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1400511516127)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "742668" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1400511451493)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "96" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "96" ,
"previousUser1ID1Field" : "nr1" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "TestRte6" ,
"routeName2Field" : "TestRte6" ,
"routeName3Field" : "TestRte6" ,
"routeSeal1Field" : "84" ,
"routeSeal2Field" : "2" ,
"routeSeal3Field" : "152" ,
"sealField" : "96" ,
"serialNumberField" : "532019" ,
"serviceBranchField" : "the new service branch" ,
"startDateField" : "\Date(1253111700753)\/" ,
"stateField" : "" ,
"timeZoneIDField" : "" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "rdave" ,
"user1ID2Field" : "rdave" ,
"user1ID3Field" : "nr1" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zIPField" : ""
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Success"
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"routeLockRecordField" :
{
    "closeDateField" : null ,
    "closeDateFieldSpecified" : false ,
    "dispatchOrderField" : "0" ,
    "ifCloseSealDuressField" : false ,
    "ifCloseSealDuressFieldSpecified" : false ,
    "ifCloseSealLowBatteryField" : false ,
    "ifCloseSealLowBatteryFieldSpecified" : false ,

```

```

        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "2" ,
        "openDateField" : "\/Date(1409175165993)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRte6" ,
        "user1IDField" : "rdave" ,
        "user2IDField" : ""
    }
} ,
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "asdfasd" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "13" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "0" ,
        "bankOpenWindowField" : "0" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : null ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "asdf" ,
        "customerNumberField" : "160080" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "dddddddddddddd" ,
        "description3Field" : "dddddddddddddd" ,
        "description4Field" : "dddddddddddddd" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "CentranSS" ,
        "displayIssuedComboUser1Seq1Field" : "219473" ,
        "displayIssuedComboUser1Seq2Field" : "937961" ,
        "displayIssuedComboUser1Seq3Field" : "656517" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : false ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : true ,
        "ifLastRoute3IssuedField" : true ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : true ,
        "ifRoute2IssuedField" : true ,
        "ifRoute3IssuedField" : true ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "219473" ,
        "issuedComboUser1Seq2Field" : "937961" ,
        "issuedComboUser1Seq3Field" : "656517" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "71" ,
        "lastUsedDateField" : "\/Date(1409175166673)\/" ,
        "lockActivationStatusField" : "gen1" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK019" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\/Date(1409175165347)\/" ,
        "openTime2Field" : "\/Date(1409175165993)\/" ,
        "openTime3Field" : "\/Date(1409175166673)\/" ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\/Date(1400511516127)\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "742668" ,
    }
}

```

```

        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\Date(1400511451493)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "96" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "96" ,
        "previousUser1ID1Field" : "nr1" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRte6" ,
        "routeName2Field" : "TestRte6" ,
        "routeName3Field" : "TestRte6" ,
        "routeSeal1Field" : "84" ,
        "routeSeal2Field" : "2" ,
        "routeSeal3Field" : "152" ,
        "sealField" : "96" ,
        "serialNumberField" : "532019" ,
        "serviceBranchField" : "the new service branch" ,
        "startDateField" : "\Date(1253111700753)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rdave" ,
        "user1ID2Field" : "rdave" ,
        "user1ID3Field" : "rdave" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK019" ,
        "lockSequenceField" : "3" ,
        "openDateField" : "\Date(1409175166673)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRte6" ,
        "user1IDField" : "rdave" ,
        "user2IDField" : ""
    }
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "All locks on route TestRte6 have been reassigned."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"TRANSACTION_REASSIGN_ALL_LOCKS_ROUTEField" :
{

```

```
    "dispatcherIDField" : "CentranSS" ,  
    "routeNameField" : "TestRte6" ,  
    "user1IDField" : "rdave" ,  
    "user2IDField" : ""  
  }  
}
```

3.3.11 Web Service Route Transactions - Reassign Locks On a Route

CenTran Programming Reference Manual

This transaction reassigns some locks on an existing route in the database. The locks to be reassigned are specified as route lock records (as defined in the schema) in the input transaction file. This transaction will work even if the route specified in the input transaction does not exist (because it has been deleted after dispatch). The route is determined by what locks are specified in the transaction.

Transaction information required:

- Route User ID 1
- Route User ID 2
- Array of Lock Records to be reassigned on the route:
 - Lock Name
 - Lock Sequence
- Dispatcher ID (Optional) - If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all locks on the route were reassigned successfully). In this case the error code for the transaction would be RC_OK.

PartialSuccess:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole.

Each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. The only exception to this rule is when an invalid lock name, invalid User ID or invalid lock sequence is specified as input for a route lock record and in this case only the result record is displayed for that particular route lock record.

NOTE: The result record for the whole transaction has as its result 'PartialSuccess' if the transaction is a partial success (some locks were reassigned successfully and the others failed). In the case of partial success, the error code for the transaction would be RC_ERR_REASSIGN_ROUTE_SOME_NOT_REASSIGNED.

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole. No route information is displayed if the transaction failed due to reasons like lack of authorization or failure of any other condition that needs to be satisfied before attempting to reassign the locks on a route.

If an attempt was made to reassign the locks, for each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. The only exception to this rule is when an invalid lock name, invalid User ID or invalid lock sequence is specified as input for a route lock record and in this case only the result record is displayed for that particular route lock record.

NOTE: The result record for the whole transaction has as its result 'Failure' if the transaction is a complete failure (none of the locks were reassigned on the route). In the case of complete failure, the error code for the transaction will vary depending on the error.

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Locks not open, or otherwise invalid.
- Locks don't exist.
- Users don't exist, or otherwise invalid.
- Route doesn't exist or otherwise invalid.
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/reassign
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/reassign
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_REASSIGN_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <User1ID>rzjill</User1ID>
  <User2ID>rzjack</User2ID>
  <RouteLockRecord>
    <LockName>VLKNoLock</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <RouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <RouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <DispatcherID/>
</TRANSACTION_REASSIGN_LOCKS_ROUTE>
```


Output Transaction:

In this example, route TestRte6 does not exist because it has been deleted after lock VLK016 was dispatched on it. The transaction nevertheless succeeds and the details of lock VLK016 are displayed after reassignment.

```
<RESPONSE REASSIGN LOCKS ROUTE>
  <TRANSACTION_REASSIGN_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteName>TestRte6</RouteName>
    <RouteLockRecord>
      <LockName>VLK016</LockName>
      <LockSequence>1</LockSequence>
      <User1ID>rzsamegroup</User1ID>
      <User2ID>rjrb1</User2ID>
    </RouteLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_REASSIGN_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Success in reassigning all the specified locks.</Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <Description>Lock VLK016 reassigned successfully.</Description>
    </ResultRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK016</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T21:18:27</StartDate>
      <LastUsedDate>2009-02-18T19:06:15</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>1</IfDualMode>
      <IfLockOpen>0</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>1</IfRoute1Issued>
      <IfRoute2Issued>0</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
      <SerialNumber>532016</SerialNumber>
      <CloseSeal>37</CloseSeal>
      <PreviousSeal>37</PreviousSeal>
      <RouteSeal1>103</RouteSeal1>
      <RouteSeal2>0</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>37</PreviousRouteSeal1>
      <PreviousRouteSeal2>0</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>0</OpenTries2>
      <OpenTries3>0</OpenTries3>
      <TransferReturnCode>0</TransferReturnCode>
      <IssuedComboUser1Seq1>915194</IssuedComboUser1Seq1>
      <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
      <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
      <IssuedComboUser2Seq1>174090</IssuedComboUser2Seq1>
      <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
      <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
      <PreviousComboUser1Seq1>471623</PreviousComboUser1Seq1>
      <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
      <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
      <PreviousComboUser2Seq1>730419</PreviousComboUser2Seq1>
      <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
      <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
      <AuditCount>17</AuditCount>
      <GroupName />
      <OriginalSerialNumber>0</OriginalSerialNumber>
      <Description1>aaaaaaaaaaaaaaaa</Description1>
      <Description2 />
      <Description3 />
      <Description4 />
      <CustomerID />
      <ATMSerialNumber />
      <UserDefined1 />
      <UserDefined2 />
      <UserDefined3 />
      <UserDefined4 />
      <Region>TestRegionD</Region>
      <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
      <IfLastRoute1Issued>1</IfLastRoute1Issued>
      <IfLastRoute2Issued>0</IfLastRoute2Issued>
      <IfLastRoute3Issued>0</IfLastRoute3Issued>
      <User1ID1>rzsamegroup</User1ID1>
      <User1ID2 />
      <User1ID3 />
      <User2ID1>rjrb1</User2ID1>
      <User2ID2 />
      <User2ID3 />
      <RouteName1>TestRte6</RouteName1>
      <RouteName2 />
      <RouteName3 />
      <DispatcherID1>MHG\agoverdhan</DispatcherID1>
```

```

        <DispatcherID2 />
        <DispatcherID3 />
        <OpenTime1>2009-02-18T19:06:15.344Z</OpenTime1>
        <OpenTime2 xsi:nil="true" />
        <OpenTime3 xsi:nil="true" />
        <CloseTime1 xsi:nil="true" />
        <CloseTime2 xsi:nil="true" />
        <CloseTime3 xsi:nil="true" />
        <IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
        <IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
        <IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
        <PreviousUser1ID1>rzsamegroup</PreviousUser1ID1>
        <PreviousUser1ID2 />
        <PreviousUser1ID3 />
        <PreviousUser2ID1>rjrb1</PreviousUser2ID1>
        <PreviousUser2ID2 />
        <PreviousUser2ID3 />
        <PreviousRouteName1>TestRte6</PreviousRouteName1>
        <PreviousRouteName2 />
        <PreviousRouteName3 />
        <PreviousOpenTime1>2009-02-18T18:57:13.345Z</PreviousOpenTime1>
        <PreviousOpenTime2 xsi:nil="true" />
        <PreviousOpenTime3 xsi:nil="true" />
        <PreviousCloseTime1>2009-02-18T19:05:41.543Z</PreviousCloseTime1>
        <PreviousCloseTime2 xsi:nil="true" />
        <PreviousCloseTime3 xsi:nil="true" />
        <ServiceBranch>the new service branch</ServiceBranch>
        <Address1 />
        <Address2 />
        <City />
        <State />
        <ZIP />
        <Country />
        <KeyCloseSeal>0</KeyCloseSeal>
        <LockHardwareModel />
        <BankBranchName />
        <BankOpenDelay>0</BankOpenDelay>
        <BankOpenWindow>0</BankOpenWindow>
        <LockActivationStatus />
        <LockDispatchStatus />
    </LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_REASSIGN_LOCKS_ROUTE>

```

Example 2 - Partial Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/reassign
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/reassign
```

Example Input Transaction (HTTP Body):

```

<TRANSACTION_REASSIGN_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <User1ID>rzjill</User1ID>
  <User2ID>rzjack</User2ID>
  <RouteLockRecord>
    <LockName>VLKNoLock</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <RouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <RouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>1</LockSequence>
  </RouteLockRecord>
  <DispatcherID/>
</TRANSACTION_REASSIGN_LOCKS_ROUTE>

```

Output Transaction:

In this example, locks VLK014 and VLK015 are reassigned successfully, but lock VLKNoLock is not found. The transaction is returned as a partial success.

```

<RESPONSE_REASSIGN_LOCKS_ROUTE>
  <TRANSACTION_REASSIGN_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <User1ID>rzjill</User1ID>
    <User2ID>rzjack</User2ID>
    <RouteLockRecord>
      <LockName>VLKNoLock</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
      <LockName>VLK014</LockName>
      <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <RouteLockRecord>
      <LockName>VLK015</LockName>

```

```

        <LockSequence>1</LockSequence>
    </RouteLockRecord>
    <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION REASSIGN_LOCKS_ROUTE>
<ResultRecord>
    <Result>PartialSuccess</Result>
    <ErrorCode>RC_ERR_REASSIGN_ROUTE_SOME_NOT_REASSIGNED</ErrorCode>
    <Description>Failure in reassigning some of the specified locks.</Description>
</ResultRecord>
<LockRecordAndRouteLockRecord>
    <ResultRecord>
        <Result>Failure</Result>
        <ErrorCode>RC_ERR_LOCK_NOT_FOUND</ErrorCode>
        <Description>Lock not found in lock table.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLKNoLock</LockName>
        <User1ID>rzjill</User1ID>
        <User2ID>rzjack</User2ID>
        <RouteName />
        <OpenDate xsi:nil="true" />
        <CloseDate xsi:nil="true" />
        <LockSequence>1</LockSequence>
        <DispatchOrder>0</DispatchOrder>
        <ResultCode>0</ResultCode>
        <IfCloseSealDuress>0</IfCloseSealDuress>
        <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
    <ResultRecord>
        <Result>Success</Result>
        <ErrorCode>RC_OK</ErrorCode>
        <Description>Lock VLK014 reassigned successfully.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK014</LockName>
        <User1ID />
        <User2ID>rzjack</User2ID>
        <RouteName />
        <OpenDate xsi:nil="true" />
        <CloseDate xsi:nil="true" />
        <LockSequence>1</LockSequence>
        <DispatchOrder>0</DispatchOrder>
        <ResultCode>0</ResultCode>
        <IfCloseSealDuress>0</IfCloseSealDuress>
        <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK014</LockName>
        <RecordType>A</RecordType>
        <StartDate>2002-11-01T21:17:28</StartDate>
        <LastUsedDate>2009-08-05T15:22:40</LastUsedDate>
        <CustomerNumber>123456</CustomerNumber>
        <LockMode>R</LockMode>
        <IfDualMode>0</IfDualMode>
        <IfLockOpen>0</IfLockOpen>
        <IfForcedClosed>0</IfForcedClosed>
        <IfRoute1Issued>1</IfRoute1Issued>
        <IfRoute2Issued>0</IfRoute2Issued>
        <IfRoute3Issued>0</IfRoute3Issued>
        <IfNoAlarm>0</IfNoAlarm>
        <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
        <IfActivationCall>0</IfActivationCall>
        <SerialNumber>532214</SerialNumber>
        <Seal>48</Seal>
        <PreviousSeal>48</PreviousSeal>
        <RouteSeal1>82</RouteSeal1>
        <RouteSeal2>0</RouteSeal2>
        <RouteSeal3>0</RouteSeal3>
        <PreviousRouteSeal1>48</PreviousRouteSeal1>
        <PreviousRouteSeal2>0</PreviousRouteSeal2>
        <PreviousRouteSeal3>0</PreviousRouteSeal3>
        <OpenTries1>0</OpenTries1>
        <OpenTries2>0</OpenTries2>
        <OpenTries3>0</OpenTries3>
        <TransferReturnCode>0</TransferReturnCode>
        <IssuedComboUser1Seq1>724101</IssuedComboUser1Seq1>
        <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
        <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
        <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
        <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
        <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
        <PreviousComboUser1Seq1>547868</PreviousComboUser1Seq1>
        <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
        <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
        <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
        <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
        <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
        <AuditCount>16</AuditCount>
        <GroupName>some gro</GroupName>
        <OriginalSerialNumber>0</OriginalSerialNumber>
        <Description1>aaaaaaaaaaaaaaaa</Description1>
        <Description2>dddddddddddd</Description2>
    </LockRecord>

```

```

<Description3>dddddddddddd</Description3>
<Description4>dddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-05T15:22:40.234Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-05T15:22:30.976Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-05T15:22:39.677Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLK015 reassigned successfully.</Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK015</LockName>
    <User1ID />
    <User2ID>rzjack</User2ID>
    <RouteName />
    <OpenDate xsi:nil="true" />
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK015</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T22:17:57</StartDate>
    <LastUsedDate>2009-08-05T15:22:19</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>1</IfRoute1Issued>

```

```

<IfRoute2Issued>1</IfRoute2Issued>
<IfRoute3Issued>0</IfRoute3Issued>
<IfNoAlarm>0</IfNoAlarm>
<IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
<IfActivationCall>0</IfActivationCall>
<SerialNumber>532015</SerialNumber>
<Seal>100</Seal>
<PreviousSeal>100</PreviousSeal>
<RouteSeal1>98</RouteSeal1>
<RouteSeal2>104</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>96</PreviousRouteSeal1>
<PreviousRouteSeal2>100</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>508848</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>255380</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>469956</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>489400</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>6</AuditCount>
<GroupName />
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>1</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2>rjrb1</User1ID2>
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2>TestRte4</RouteName2>
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2>CentranSS</DispatcherID2>
<DispatcherID3 />
<OpenTime1>2009-08-05T15:22:16.563Z</OpenTime1>
<OpenTime2>2009-08-05T15:22:19.674Z</OpenTime2>
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2>rzjill</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2>TestRte4</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-05T15:22:05.654Z</PreviousOpenTime1>
<PreviousOpenTime2>2009-08-05T15:22:05.654Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-05T15:22:09.234Z</PreviousCloseTime1>
<PreviousCloseTime2>2009-08-05T15:22:09.234Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch />
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />

```

```

        <LockDispatchStatus />
      </LockRecord>
    </LockRecordAndRouteLockRecord>
  </RESPONSE_REASSIGN_LOCKS_ROUTE>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran route reassign locks transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

In this example, lock **VLK009** on route **TestRte6** is reassigned to lock user **rdave** for route sequence 1 and 2.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/reassign
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/reassign
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "dispatcherIDField" : null ,
  "routeLockRecordField" :
  [
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK009" ,
      "lockSequenceField" : "1" ,
      "openDateField" : null ,
      "openDateFieldSpecified" : false ,
      "resultCodeField" : null ,
      "routeNameField" : null ,
      "user1IDField" : null ,
      "user2IDField" : null
    } ,
    {
      "closeDateField" : null ,
      "closeDateFieldSpecified" : false ,
      "dispatchOrderField" : null ,
      "ifCloseSealDuressField" : false ,

```

```

        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK009" ,
        "lockSequenceField" : "2" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    }
} ,
"lockRecordAndRouteLockRecordField" :
"lockRecordField" :
{
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "43" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" :
    [
    ] ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "" ,
    "closeSealLengthField" : "2" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "" ,
    "customerIDField" : "some customerid" ,
    "customerNumberField" : "123456" ,
    "description1Field" : "test1" ,
    "description2Field" : "test3" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "CentranSS" ,
    "dispatcherID2Field" : "CentranSS" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "143883" ,
    "displayIssuedComboUser1Seq2Field" : "467907" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : " " ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : false ,
    "ifForcedClosedField" : false ,
    "ifLastRoute1IssuedField" : true ,
    "ifLastRoute2IssuedField" : true ,
    "ifLastRoute3IssuedField" : false ,
    "ifLegacyImportField" : false ,
    "ifLockOpenField" : false ,
    "ifNoAlarmField" : false ,
    "ifPreviousRoute1IssuedField" : false ,
    "ifPreviousRoute2IssuedField" : false ,
    "ifPreviousRoute3IssuedField" : false ,
    "ifRoute1IssuedField" : true ,
    "ifRoute2IssuedField" : true ,
    "ifRoute3IssuedField" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifUnassignedOpenCallField" : false ,
    "issuedComboUser1Seq1Field" : "143883" ,
    "issuedComboUser1Seq2Field" : "467907" ,
    "issuedComboUser1Seq3Field" : "0" ,
    "issuedComboUser2Seq1Field" : "0" ,
    "issuedComboUser2Seq2Field" : "0" ,
    "issuedComboUser2Seq3Field" : "0" ,
    "keyCloseSealField" : "0" ,
    "lastUsedDateField" : "\/Date(1409175164667)\/" ,
    "lockActivationStatusField" : "" ,
    "lockDispatchStatusField" : "" ,
    "lockHardwareModelField" : "" ,
    "lockModeField" : 1 ,
    "lockNameField" : "VLK009" ,
    "lowBatteryDateField" : null ,
    "networkAddressField" : "" ,

```

Example Output Transaction - JSON:

```

{
    "lockRecordAndRouteLockRecordField" :
    [
        {
            "lockRecordField" :
            {
                "aTMSerialNumberField" : "" ,
                "address1Field" : "" ,
                "address2Field" : "" ,
                "auditCountField" : "43" ,
                "bankBranchNameField" : "" ,
                "bankModeUserNameArrayField" :
                [
                ] ,
                "bankOpenDelayField" : "0" ,
                "bankOpenWindowField" : "0" ,
                "cityField" : "" ,
                "closeSealLengthField" : "2" ,
                "closeTime1Field" : null ,
                "closeTime2Field" : null ,
                "closeTime3Field" : null ,
                "countryField" : "" ,
                "customerIDField" : "some customerid" ,
                "customerNumberField" : "123456" ,
                "description1Field" : "test1" ,
                "description2Field" : "test3" ,
                "description3Field" : "" ,
                "description4Field" : "" ,
                "dispatcherID1Field" : "CentranSS" ,
                "dispatcherID2Field" : "CentranSS" ,
                "dispatcherID3Field" : "" ,
                "displayIssuedComboUser1Seq1Field" : "143883" ,
                "displayIssuedComboUser1Seq2Field" : "467907" ,
                "displayIssuedComboUser1Seq3Field" : "" ,
                "displayIssuedComboUser2Seq1Field" : "" ,
                "displayIssuedComboUser2Seq2Field" : "" ,
                "displayIssuedComboUser2Seq3Field" : "" ,
                "duressDateField" : null ,
                "groupNameField" : " " ,
                "ifActivationCallField" : false ,
                "ifDualModeField" : false ,
                "ifForcedClosedField" : false ,
                "ifLastRoute1IssuedField" : true ,
                "ifLastRoute2IssuedField" : true ,
                "ifLastRoute3IssuedField" : false ,
                "ifLegacyImportField" : false ,
                "ifLockOpenField" : false ,
                "ifNoAlarmField" : false ,
                "ifPreviousRoute1IssuedField" : false ,
                "ifPreviousRoute2IssuedField" : false ,
                "ifPreviousRoute3IssuedField" : false ,
                "ifRoute1IssuedField" : true ,
                "ifRoute2IssuedField" : true ,
                "ifRoute3IssuedField" : false ,
                "ifSecondLineMaintenanceCallField" : false ,
                "ifUnassignedOpenCallField" : false ,
                "issuedComboUser1Seq1Field" : "143883" ,
                "issuedComboUser1Seq2Field" : "467907" ,
                "issuedComboUser1Seq3Field" : "0" ,
                "issuedComboUser2Seq1Field" : "0" ,
                "issuedComboUser2Seq2Field" : "0" ,
                "issuedComboUser2Seq3Field" : "0" ,
                "keyCloseSealField" : "0" ,
                "lastUsedDateField" : "\/Date(1409175164667)\/" ,
                "lockActivationStatusField" : "" ,
                "lockDispatchStatusField" : "" ,
                "lockHardwareModelField" : "" ,
                "lockModeField" : 1 ,
                "lockNameField" : "VLK009" ,
                "lowBatteryDateField" : null ,
                "networkAddressField" : "" ,
            }
        }
    ]
}

```



```

        "networkPortField" : "0" ,
        "openTime1Field" : "\/Date(1409175163953)\/" ,
        "openTime2Field" : "\/Date(1409175164667)\/" ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\/Date(1400511514090)\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "61510" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\/Date(1400511453237)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "52" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "52" ,
        "previousUser1ID1Field" : "nr1" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRte6" ,
        "routeName2Field" : "TestRte6" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "118" ,
        "routeSeal2Field" : "128" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "52" ,
        "serialNumberField" : "532009" ,
        "serviceBranchField" : "the new service branch" ,
        "startDateField" : "\/Date(1036185306000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rdave" ,
        "user1ID2Field" : "rdave" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK009" ,
        "lockSequenceField" : "1" ,
        "openDateField" : "\/Date(1409175163953)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRte6" ,
        "user1IDField" : "rdave" ,
        "user2IDField" : ""
    }
} ,
{

```



```

"lockRecordField" :
{
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "43" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" :
    [
    ] ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "" ,
    "closeSealLengthField" : "2" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "" ,
    "customerIDField" : "some customerid" ,
    "customerNumberField" : "123456" ,
    "description1Field" : "test1" ,
    "description2Field" : "test3" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "CentranSS" ,
    "dispatcherID2Field" : "CentranSS" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "143883" ,
    "displayIssuedComboUser1Seq2Field" : "467907" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : " " ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : false ,
    "ifForcedClosedField" : false ,
    "ifLastRoute1IssuedField" : true ,
    "ifLastRoute2IssuedField" : true ,
    "ifLastRoute3IssuedField" : false ,
    "ifLegacyImportField" : false ,
    "ifLockOpenField" : false ,
    "ifNoAlarmField" : false ,
    "ifPreviousRoute1IssuedField" : false ,
    "ifPreviousRoute2IssuedField" : false ,
    "ifPreviousRoute3IssuedField" : false ,
    "ifRoute1IssuedField" : true ,
    "ifRoute2IssuedField" : true ,
    "ifRoute3IssuedField" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifUnassignedOpenCallField" : false ,
    "issuedComboUser1Seq1Field" : "143883" ,
    "issuedComboUser1Seq2Field" : "467907" ,
    "issuedComboUser1Seq3Field" : "0" ,
    "issuedComboUser2Seq1Field" : "0" ,
    "issuedComboUser2Seq2Field" : "0" ,
    "issuedComboUser2Seq3Field" : "0" ,
    "keyCloseSealField" : "0" ,
    "lastUsedDateField" : "\/Date(1409175164667)\/" ,
    "lockActivationStatusField" : "" ,
    "lockDispatchStatusField" : "" ,
    "lockHardwareModelField" : "" ,
    "lockModeField" : 1 ,
    "lockNameField" : "VLK009" ,
    "lowBatteryDateField" : null ,
    "networkAddressField" : "" ,
    "networkPortField" : "0" ,
    "openTime1Field" : "\/Date(1409175163953)\/" ,
    "openTime2Field" : "\/Date(1409175164667)\/" ,
    "openTime3Field" : null ,
    "openTries1Field" : "0" ,
    "openTries2Field" : "0" ,
    "openTries3Field" : "0" ,
    "originalSerialNumberField" : "000000" ,
    "previousCloseTime1Field" : "\/Date(1400511514090)\/" ,
    "previousCloseTime2Field" : null ,
    "previousCloseTime3Field" : null ,
    "previousComboUser1Seq1Field" : "61510" ,
    "previousComboUser1Seq2Field" : "0" ,
    "previousComboUser1Seq3Field" : "0" ,
    "previousComboUser2Seq1Field" : "0" ,
    "previousComboUser2Seq2Field" : "0" ,
    "previousComboUser2Seq3Field" : "0" ,
    "previousOpenTime1Field" : "\/Date(1400511453237)\/" ,
    "previousOpenTime2Field" : null ,
    "previousOpenTime3Field" : null ,
    "previousRouteName1Field" : "" ,
    "previousRouteName2Field" : "" ,
    "previousRouteName3Field" : "" ,

```

```

        "previousRouteSeal1Field" : "52" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "52" ,
        "previousUser1ID1Field" : "nr1" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRte6" ,
        "routeName2Field" : "TestRte6" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "118" ,
        "routeSeal2Field" : "128" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "52" ,
        "serialNumberField" : "532009" ,
        "serviceBranchField" : "the new service branch" ,
        "startDateField" : "\\Date(1036185306000)\\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rdave" ,
        "user1ID2Field" : "rdave" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK009" ,
        "lockSequenceField" : "2" ,
        "openDateField" : "\\Date(1409175164667)\\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRte6" ,
        "user1IDField" : "rdave" ,
        "user2IDField" : ""
    }
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "All the specified locks have been reassigned successfully."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_REASSIGN_LOCKS_ROUTEField" :
{
    "dispatcherIDField" : "CentranSS" ,
    "routeLockRecordField" :
    [
        {
            "closeDateField" : null ,
            "closeDateFieldSpecified" : false ,
            "dispatchOrderField" : null ,
            "ifCloseSealDuressField" : false ,
            "ifCloseSealDuressFieldSpecified" : false ,
            "ifCloseSealLowBatteryField" : false ,
            "ifCloseSealLowBatteryFieldSpecified" : false ,

```

```

        "lockNameField" : "VLK009" ,
        "lockSequenceField" : "1" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    } ,
    {
        "closeDateField" : null ,
        "closeDateFieldSpecified" : false ,
        "dispatchOrderField" : null ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK009" ,
        "lockSequenceField" : "2" ,
        "openDateField" : null ,
        "openDateFieldSpecified" : false ,
        "resultCodeField" : null ,
        "routeNameField" : null ,
        "user1IDField" : null ,
        "user2IDField" : null
    }
] ,
"user1IDField" : "rdave" ,
"user2IDField" : ""
}
}

```

3.3.12 Web Service Route Transactions - Close Locks on a Route

CenTran Programming Reference Manual

This transaction closes the specified locks on an existing route in the database. This transaction will work even if the route specified in the input transaction does not exist because it has been deleted after dispatch.

Transaction information required:

- Array of Lock Records to be closed on the route:
 - Lock Name
 - Lock Sequence
 - Close Seal
 - Force Close Flag
- Dispatcher ID (Optional) – If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'Success' only if the transaction is a complete success (all the locks were closed successfully). In this case the error code for the transaction would be RC_OK.

PartialSuccess:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole and for each lock on the route - a route lock record, lock record and result record.

NOTE: The result record for the whole transaction has as its result 'PartialSuccess' only if the transaction is a partial success (some locks on the route were closed successfully, and some locks failed). In this case the error code for the transaction would be RC_RC_ERR_CLOSE_ROUTE_NOT_ALL_CLOSED.

Failure:

Input transaction, followed by a result record (result, error code and description) for the transaction as a whole. No route information is displayed if the transaction failed due to reasons like lack of authorization, invalid route name, or failure of any other condition that needs to be satisfied before attempting to close a lock on the route.

If an attempt was made to close the locks, for each lock on the route - a route lock record (if found), lock record (if found) and result record is displayed. There are two exceptions to this rule -

a) If an invalid lock name, invalid lock sequence is specified in the input route lock record: In this case, only the result record is displayed.

b) If one of the locks on the route is to be force closed but is not a skipped route sequence: In this case, that particular lock's details (result record, lock record and route lock record) alone are displayed.

NOTE: The result record for the whole transaction has as its result 'Failure' if the transaction is a complete failure (none of the locks were closed). The error code for the transaction will vary depending on the reason for the failure.

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Locks not open, or otherwise invalid.
- Locks don't exist.
- Close seal invalid.
- Number of close attempts exceeded.
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/close
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/close
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_CLOSE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <CloseRouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>2</LockSequence>
    <CloseSeal>01</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <CloseRouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>1</LockSequence>
    <CloseSeal>0</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <CloseRouteLockRecord>
    <LockName></LockName>
    <LockSequence>1</LockSequence>
    <CloseSeal>0</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <DispatcherID/>
</TRANSACTION_CLOSE_LOCKS_ROUTE>
```

Output Transaction:

In this example, an attempt is made to close a lock with an incorrect close seal, close a lock that is not open, and close a lock with a blank name. The output consists of the details (result record, lock record, route lock record) of each lock.

```
<RESPONSE_CLOSE_LOCKS_ROUTE>
  <TRANSACTION_CLOSE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <CloseRouteLockRecord>
      <LockName>VLK015</LockName>
      <LockSequence>2</LockSequence>
      <CloseSeal>01</CloseSeal>
      <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <CloseRouteLockRecord>
      <LockName>VLK014</LockName>
      <LockSequence>1</LockSequence>
      <CloseSeal>0</CloseSeal>
      <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <CloseRouteLockRecord>
      <LockName></LockName>
      <LockSequence>1</LockSequence>
      <CloseSeal>0</CloseSeal>
      <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_CLOSE_LOCKS_ROUTE>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_CLOSE_ROUTE_NOT_ALL_CLOSED</ErrorCode>
    <Description>Failure in closing any of the specified locks. Close route: Errors
closing some locks.</Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Failure</Result>
      <ErrorCode>RC_ERR_CLOSE_LOCK_SEAL_MISMATCH</ErrorCode>
      <Description>Seal numbers do not match for lock close.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK015</LockName>
      <User1ID>rjrb1</User1ID>
      <User2ID />
      <RouteName />
      <OpenDate xsi:nil="true" />
      <CloseDate xsi:nil="true" />
      <LockSequence>2</LockSequence>
      <DispatchOrder>0</DispatchOrder>
      <ResultCode>0</ResultCode>
      <IfCloseSealDuress>0</IfCloseSealDuress>
      <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK015</LockName>
      <RecordType>A</RecordType>
      <StartDate>2002-11-01T22:17:57.757Z</StartDate>
      <LastUsedDate>2009-08-10T18:58:42.153Z</LastUsedDate>
      <CustomerNumber>123456</CustomerNumber>
      <LockMode>R</LockMode>
      <IfDualMode>0</IfDualMode>
      <IfLockOpen>0</IfLockOpen>
      <IfForcedClosed>0</IfForcedClosed>
      <IfRoute1Issued>0</IfRoute1Issued>
      <IfRoute2Issued>1</IfRoute2Issued>
      <IfRoute3Issued>0</IfRoute3Issued>
      <IfNoAlarm>0</IfNoAlarm>
      <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
      <IfActivationCall>0</IfActivationCall>
      <SerialNumber>532015</SerialNumber>
      <Seal>100</Seal>
      <PreviousSeal>100</PreviousSeal>
      <RouteSeal1>98</RouteSeal1>
      <RouteSeal2>104</RouteSeal2>
      <RouteSeal3>0</RouteSeal3>
      <PreviousRouteSeal1>96</PreviousRouteSeal1>
      <PreviousRouteSeal2>100</PreviousRouteSeal2>
      <PreviousRouteSeal3>0</PreviousRouteSeal3>
      <OpenTries1>0</OpenTries1>
      <OpenTries2>1</OpenTries2>
      <OpenTries3>0</OpenTries3>
      <TransferReturnCode>0</TransferReturnCode>
      <IssuedComboUser1Seq1>508848</IssuedComboUser1Seq1>
      <IssuedComboUser1Seq2>255380</IssuedComboUser1Seq2>
      <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
      <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
      <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
      <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
      <PreviousComboUser1Seq1>469956</PreviousComboUser1Seq1>
      <PreviousComboUser1Seq2>489400</PreviousComboUser1Seq2>
      <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
      <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
      <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
      <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
      <AuditCount>6</AuditCount>
      <GroupName />
      <OriginalSerialNumber>0</OriginalSerialNumber>
    </LockRecord>
  </LockRecordAndRouteLockRecord>
</RESPONSE_CLOSE_LOCKS_ROUTE>
```

```

<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>1</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2>rjrb1</User1ID2>
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2>TestRte4</RouteName2>
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2>CentranSS</DispatcherID2>
<DispatcherID3 />
<OpenTime1>2009-08-10T18:57:53.657Z</OpenTime1>
<OpenTime2>2009-08-10T18:57:55.657Z</OpenTime2>
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-08-10T18:58:42.153Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2>rzjill</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2>TestRte4</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:57:41.167Z</PreviousOpenTime1>
<PreviousOpenTime2>2009-08-10T18:57:41.327Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:57:45.737Z</PreviousCloseTime1>
<PreviousCloseTime2>2009-08-10T18:57:45.880Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch />
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_LOCK_NOT_OPEN</ErrorCode>
    <Description>Lock not open.</Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <User1ID>rzjill</User1ID>
    <User2ID />
    <RouteName />
    <OpenDate xsi:nil="true" />
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:17:28.343Z</StartDate>
    <LastUsedDate>2009-08-10T18:58:40.217Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>0</IfDualMode>
    <IfLockOpen>0</IfLockOpen>

```

```
<IfForcedClosed>0</IfForcedClosed>
<IfRoute1Issued>0</IfRoute1Issued>
<IfRoute2Issued>0</IfRoute2Issued>
<IfRoute3Issued>0</IfRoute3Issued>
<IfNoAlarm>0</IfNoAlarm>
<IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
<IfActivationCall>0</IfActivationCall>
<SerialNumber>532214</SerialNumber>
<Seal>82</Seal>
<PreviousSeal>48</PreviousSeal>
<RouteSeal1>82</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>48</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>724101</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>547868</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>17</AuditCount>
<GroupName>some gro</GroupName>
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2>dddddddddddddd</Description2>
<Description3>dddddddddddddd</Description3>
<Description4>dddddddddddddd</Description4>
<CustomerID>ACustomer</CustomerID>
<ATMSerialNumber>asdfasd</ATMSerialNumber>
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-10T18:58:21.950Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-08-10T18:58:40.217Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:58:10.370Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:58:21.057Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
```

```

        <BankOpenWindow>0</BankOpenWindow>
        <LockActivationStatus />
        <LockDispatchStatus />
    </LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
    <ResultRecord>
        <Result>Failure</Result>
        <ErrorCode>RC_ERR_INVALID_LOCKNAME</ErrorCode>
        <Description>Invalid lock name. The lock name is blank.</Description>
    </ResultRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_CLOSE_LOCKS_ROUTE>

```

Example 2 - PartialSuccess

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/close
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/close
```

Example Input Transaction (HTTP Body):

```

<TRANSACTION_CLOSE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <CloseRouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>1</LockSequence>
    <CloseSeal>72</CloseSeal>
    <IfForcedClosed>1</IfForcedClosed>
  </CloseRouteLockRecord>
  <CloseRouteLockRecord>
    <LockName>VLK014</LockName>
    <LockSequence>2</LockSequence>
    <CloseSeal>0</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <DispatcherID/>
</TRANSACTION_CLOSE_LOCKS_ROUTE>

```

Output Transaction:

In this example, the first lock has the correct close seal and is closed successfully. The second lock is not open, so it fails.

```

<RESPONSE_CLOSE_LOCKS_ROUTE>
  <TRANSACTION_CLOSE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <CloseRouteLockRecord>
      <LockName>VLK015</LockName>
      <LockSequence>1</LockSequence>
      <CloseSeal>72</CloseSeal>
      <IfForcedClosed>1</IfForcedClosed>
    </CloseRouteLockRecord>
    <CloseRouteLockRecord>
      <LockName>VLK014</LockName>
      <LockSequence>2</LockSequence>
      <CloseSeal>0</CloseSeal>
      <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_CLOSE_LOCKS_ROUTE>
  <ResultRecord>
    <Result>PartialSuccess</Result>
    <ErrorCode>RC_ERR_CLOSE_ROUTE_NOT_ALL_CLOSED</ErrorCode>
    <Description>Failure in closing some or all of the specified locks. Close route:
Errors closing some locks.</Description>
  </ResultRecord>
  <LockRecordAndRouteLockRecord>
    <ResultRecord>
      <Result>Success</Result>
      <ErrorCode>RC_OK</ErrorCode>
      <Description>Lock VLK015 closed successfully.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK015</LockName>
      <User1ID>rzjill</User1ID>
      <User2ID />
      <RouteName />
      <OpenDate xsi:nil="true" />
      <CloseDate xsi:nil="true" />
      <LockSequence>1</LockSequence>
      <DispatchOrder>0</DispatchOrder>
      <ResultCode>0</ResultCode>
      <IfCloseSealDuress>0</IfCloseSealDuress>
      <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <LockName>VLK015</LockName>

```



```
<RecordType>A</RecordType>
<StartDate>2002-11-01T22:17:57.757Z</StartDate>
<LastUsedDate>2009-08-10T18:57:55.657Z</LastUsedDate>
<CustomerNumber>123456</CustomerNumber>
<LockMode>R</LockMode>
<IfDualMode>0</IfDualMode>
<IfLockOpen>0</IfLockOpen>
<IfForcedClosed>0</IfForcedClosed>
<IfRoute1Issued>1</IfRoute1Issued>
<IfRoute2Issued>1</IfRoute2Issued>
<IfRoute3Issued>0</IfRoute3Issued>
<IfNoAlarm>0</IfNoAlarm>
<IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
<IfActivationCall>0</IfActivationCall>
<SerialNumber>532015</SerialNumber>
<Seal>100</Seal>
<PreviousSeal>100</PreviousSeal>
<RouteSeal1>98</RouteSeal1>
<RouteSeal2>104</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>96</PreviousRouteSeal1>
<PreviousRouteSeal2>100</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>508848</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>255380</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>469956</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>489400</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>6</AuditCount>
<GroupName />
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>1</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzjill</User1ID1>
<User1ID2>rjrb1</User1ID2>
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2>TestRte4</RouteName2>
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2>CentranSS</DispatcherID2>
<DispatcherID3 />
<OpenTime1>2009-08-10T18:57:53.657Z</OpenTime1>
<OpenTime2>2009-08-10T18:57:55.657Z</OpenTime2>
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2>rzjill</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2>TestRte4</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:57:41.167Z</PreviousOpenTime1>
<PreviousOpenTime2>2009-08-10T18:57:41.327Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:57:45.737Z</PreviousCloseTime1>
<PreviousCloseTime2>2009-08-10T18:57:45.880Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch />
<Address1 />
<Address2 />
<City />
```

```

        <State />
        <ZIP />
        <Country />
        <KeyCloseSeal>0</KeyCloseSeal>
        <LockHardwareModel />
        <BankBranchName />
        <BankOpenDelay>0</BankOpenDelay>
        <BankOpenWindow>0</BankOpenWindow>
        <LockActivationStatus />
        <LockDispatchStatus />
    </LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
    <ResultRecord>
        <Result>Failure</Result>
        <ErrorCode>RC_ERR_LOCK_NOT_OPEN</ErrorCode>
        <Description>Lock not open.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK014</LockName>
        <User1ID />
        <User2ID />
        <RouteName />
        <OpenDate xsi:nil="true" />
        <CloseDate xsi:nil="true" />
        <LockSequence>2</LockSequence>
        <DispatchOrder>0</DispatchOrder>
        <ResultCode>0</ResultCode>
        <IfCloseSealDuress>0</IfCloseSealDuress>
        <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK014</LockName>
        <RecordType>A</RecordType>
        <StartDate>2002-11-01T21:17:28.343Z</StartDate>
        <LastUsedDate>2009-08-10T18:58:40.217Z</LastUsedDate>
        <CustomerNumber>123456</CustomerNumber>
        <LockMode>R</LockMode>
        <IfDualMode>0</IfDualMode>
        <IfLockOpen>0</IfLockOpen>
        <IfForcedClosed>0</IfForcedClosed>
        <IfRoute1Issued>0</IfRoute1Issued>
        <IfRoute2Issued>0</IfRoute2Issued>
        <IfRoute3Issued>0</IfRoute3Issued>
        <IfNoAlarm>0</IfNoAlarm>
        <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
        <IfActivationCall>0</IfActivationCall>
        <SerialNumber>532214</SerialNumber>
        <Seal>82</Seal>
        <PreviousSeal>48</PreviousSeal>
        <RouteSeal1>82</RouteSeal1>
        <RouteSeal2>0</RouteSeal2>
        <RouteSeal3>0</RouteSeal3>
        <PreviousRouteSeal1>48</PreviousRouteSeal1>
        <PreviousRouteSeal2>0</PreviousRouteSeal2>
        <PreviousRouteSeal3>0</PreviousRouteSeal3>
        <OpenTries1>0</OpenTries1>
        <OpenTries2>0</OpenTries2>
        <OpenTries3>0</OpenTries3>
        <TransferReturnCode>0</TransferReturnCode>
        <IssuedComboUser1Seq1>724101</IssuedComboUser1Seq1>
        <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
        <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
        <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
        <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
        <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
        <PreviousComboUser1Seq1>547868</PreviousComboUser1Seq1>
        <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
        <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
        <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
        <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
        <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
        <AuditCount>17</AuditCount>
        <GroupName>some gro</GroupName>
        <OriginalSerialNumber>0</OriginalSerialNumber>
        <Description1>aaaaaaaaaaaaaaaa</Description1>
        <Description2>dddddddddddddd</Description2>
        <Description3>dddddddddddddd</Description3>
        <Description4>dddddddddddddd</Description4>
        <CustomerID>ACustomer</CustomerID>
        <ATMSerialNumber>asdfasd</ATMSerialNumber>
        <UserDefined1 />
        <UserDefined2 />
        <UserDefined3 />
        <UserDefined4 />
        <Region>TestRegionD</Region>
        <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
        <IfLastRoute1Issued>1</IfLastRoute1Issued>
        <IfLastRoute2Issued>0</IfLastRoute2Issued>
        <IfLastRoute3Issued>0</IfLastRoute3Issued>
        <User1ID1>rzjill</User1ID1>
        <User1ID2 />
        <User1ID3 />
        <User2ID1 />
        <User2ID2 />

```

```

<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-10T18:58:21.950Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-08-10T18:58:40.217Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:58:10.370Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:58:21.057Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_CLOSE_LOCKS_ROUTE>

```

Example 3 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/close
```

Example Input Transaction (HTTP Post):

```
https://kml-3242/CentranService/rest/route/close
```

Example Input Transaction (HTTP Body):

```

<TRANSACTION_CLOSE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
  <CloseRouteLockRecord>
    <LockName>VLK015</LockName>
    <LockSequence>2</LockSequence>
    <CloseSeal>78</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <CloseRouteLockRecord>
    <LockName>VLK016</LockName>
    <LockSequence>1</LockSequence>
    <CloseSeal>25</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <CloseRouteLockRecord>
    <LockName>VLKGrpID</LockName>
    <LockSequence>1</LockSequence>
    <CloseSeal>80</CloseSeal>
    <IfForcedClosed>0</IfForcedClosed>
  </CloseRouteLockRecord>
  <DispatcherID/>
</TRANSACTION_CLOSE_LOCKS_ROUTE>

```

Output Transaction:

In this example, all of the specified locks are closed successfully.

```

<RESPONSE_CLOSE_LOCKS_ROUTE>
  <TRANSACTION_CLOSE_LOCKS_ROUTE xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <CloseRouteLockRecord>
      <LockName>VLK015</LockName>
      <LockSequence>2</LockSequence>
      <CloseSeal>78</CloseSeal>
    </CloseRouteLockRecord>
  </TRANSACTION_CLOSE_LOCKS_ROUTE>

```

```

        <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <CloseRouteLockRecord>
        <LockName>VLK016</LockName>
        <LockSequence>1</LockSequence>
        <CloseSeal>25</CloseSeal>
        <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <CloseRouteLockRecord>
        <LockName>VLKGrpID</LockName>
        <LockSequence>1</LockSequence>
        <CloseSeal>80</CloseSeal>
        <IfForcedClosed>0</IfForcedClosed>
    </CloseRouteLockRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
</TRANSACTION_CLOSE_LOCKS_ROUTE>
<ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>All the specified locks have been closed successfully.</Description>
</ResultRecord>
<LockRecordAndRouteLockRecord>
    <ResultRecord>
        <Result>Success</Result>
        <ErrorCode>RC_OK</ErrorCode>
        <Description>Lock VLK015 closed successfully.</Description>
    </ResultRecord>
    <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK015</LockName>
        <User1ID>rjrb1</User1ID>
        <User2ID />
        <RouteName />
        <OpenDate xsi:nil="true" />
        <CloseDate xsi:nil="true" />
        <LockSequence>2</LockSequence>
        <DispatchOrder>0</DispatchOrder>
        <ResultCode>0</ResultCode>
        <IfCloseSealDuress>0</IfCloseSealDuress>
        <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
    </RouteLockRecord>
    <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
        <LockName>VLK015</LockName>
        <RecordType>A</RecordType>
        <StartDate>2002-11-01T22:17:57.757Z</StartDate>
        <LastUsedDate>2009-08-10T18:58:42.153Z</LastUsedDate>
        <CustomerNumber>123456</CustomerNumber>
        <LockMode>R</LockMode>
        <IfDualMode>0</IfDualMode>
        <IfLockOpen>0</IfLockOpen>
        <IfForcedClosed>0</IfForcedClosed>
        <IfRoute1Issued>0</IfRoute1Issued>
        <IfRoute2Issued>1</IfRoute2Issued>
        <IfRoute3Issued>0</IfRoute3Issued>
        <IfNoAlarm>0</IfNoAlarm>
        <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
        <IfActivationCall>0</IfActivationCall>
        <SerialNumber>532015</SerialNumber>
        <Seal>100</Seal>
        <PreviousSeal>100</PreviousSeal>
        <RouteSeal1>98</RouteSeal1>
        <RouteSeal2>104</RouteSeal2>
        <RouteSeal3>0</RouteSeal3>
        <PreviousRouteSeal1>96</PreviousRouteSeal1>
        <PreviousRouteSeal2>100</PreviousRouteSeal2>
        <PreviousRouteSeal3>0</PreviousRouteSeal3>
        <OpenTries1>0</OpenTries1>
        <OpenTries2>2</OpenTries2>
        <OpenTries3>0</OpenTries3>
        <TransferReturnCode>0</TransferReturnCode>
        <IssuedComboUser1Seq1>508848</IssuedComboUser1Seq1>
        <IssuedComboUser1Seq2>255380</IssuedComboUser1Seq2>
        <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
        <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
        <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
        <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
        <PreviousComboUser1Seq1>469956</PreviousComboUser1Seq1>
        <PreviousComboUser1Seq2>489400</PreviousComboUser1Seq2>
        <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
        <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
        <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
        <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
        <AuditCount>6</AuditCount>
        <GroupName />
        <OriginalSerialNumber>0</OriginalSerialNumber>
        <Description1>aaaaaaaaaaaaaaaa</Description1>
        <Description2 />
        <Description3 />
        <Description4 />
        <CustomerID />
        <ATMSerialNumber />
        <UserDefined1 />
        <UserDefined2 />
        <UserDefined3 />
        <UserDefined4 />
        <Region>TestRegionD</Region>

```

```

<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>1</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rzejll</User1ID1>
<User1ID2>rjrb1</User1ID2>
<User1ID3 />
<User2ID1 />
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2>TestRte4</RouteName2>
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2>CentranSS</DispatcherID2>
<DispatcherID3 />
<OpenTime1>2009-08-10T18:57:53.657Z</OpenTime1>
<OpenTime2>2009-08-10T18:57:55.657Z</OpenTime2>
<OpenTime3 xsi:nil="true" />
<CloseTime1>2009-08-10T18:58:42.153Z</CloseTime1>
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>1</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzejll</PreviousUser1ID1>
<PreviousUser1ID2>rzejll</PreviousUser1ID2>
<PreviousUser1ID3 />
<PreviousUser2ID1 />
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2>TestRte4</PreviousRouteName2>
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:57:41.167Z</PreviousOpenTime1>
<PreviousOpenTime2>2009-08-10T18:57:41.327Z</PreviousOpenTime2>
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:57:45.737Z</PreviousCloseTime1>
<PreviousCloseTime2>2009-08-10T18:57:45.880Z</PreviousCloseTime2>
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch />
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLK016 closed successfully.</Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK016</LockName>
    <User1ID>rjrb1</User1ID>
    <User2ID>rzejll</User2ID>
    <RouteName />
    <OpenDate xsi:nil="true" />
    <CloseDate xsi:nil="true" />
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
  <LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK016</LockName>
    <RecordType>A</RecordType>
    <StartDate>2002-11-01T21:18:27.183Z</StartDate>
    <LastUsedDate>2009-08-10T18:57:55.480Z</LastUsedDate>
    <CustomerNumber>123456</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>1</IfDualMode>
    <IfLockOpen>0</IfLockOpen>
    <IfForcedClosed>0</IfForcedClosed>
    <IfRoute1Issued>1</IfRoute1Issued>
    <IfRoute2Issued>0</IfRoute2Issued>
    <IfRoute3Issued>0</IfRoute3Issued>
    <IfNoAlarm>0</IfNoAlarm>
    <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
    <IfActivationCall>0</IfActivationCall>
    <SerialNumber>532016</SerialNumber>
    <Seal>37</Seal>
    <PreviousSeal>37</PreviousSeal>
    <RouteSeal1>53</RouteSeal1>

```

```

<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>37</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>249094</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>928197</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>631429</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>205616</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<AuditCount>21</AuditCount>
<GroupName />
<OriginalSerialNumber>0</OriginalSerialNumber>
<Description1>aaaaaaaaaaaaaaaa</Description1>
<Description2 />
<Description3 />
<Description4 />
<CustomerID />
<ATMSerialNumber />
<UserDefined1 />
<UserDefined2 />
<UserDefined3 />
<UserDefined4 />
<Region>TestRegionD</Region>
<IfUnassignedOpenCall>0</IfUnassignedOpenCall>
<IfLastRoute1Issued>1</IfLastRoute1Issued>
<IfLastRoute2Issued>0</IfLastRoute2Issued>
<IfLastRoute3Issued>0</IfLastRoute3Issued>
<User1ID1>rjrb1</User1ID1>
<User1ID2 />
<User1ID3 />
<User2ID1>rzjack</User2ID1>
<User2ID2 />
<User2ID3 />
<RouteName1>TestRte4</RouteName1>
<RouteName2 />
<RouteName3 />
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2 />
<DispatcherID3 />
<OpenTime1>2009-08-10T18:57:55.480Z</OpenTime1>
<OpenTime2 xsi:nil="true" />
<OpenTime3 xsi:nil="true" />
<CloseTime1 xsi:nil="true" />
<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1>rzdifffgroup</PreviousUser2ID1>
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:57:41.733Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:57:46.023Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
<LockRecordAndRouteLockRecord>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Lock VLKGrpID closed successfully.</Description>
  </ResultRecord>

```



```

<RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLKGrpID</LockName>
  <User1ID>rjrb1</User1ID>
  <User2ID>rzjack</User2ID>
  <RouteName />
  <OpenDate xsi:nil="true" />
  <CloseDate xsi:nil="true" />
  <LockSequence>1</LockSequence>
  <DispatchOrder>0</DispatchOrder>
  <ResultCode>0</ResultCode>
  <IfCloseSealDuress>0</IfCloseSealDuress>
  <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
</RouteLockRecord>
<LockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <LockName>VLKGrpID</LockName>
  <RecordType>A</RecordType>
  <StartDate>2004-11-24T19:47:18.000Z</StartDate>
  <LastUsedDate>2009-08-10T18:57:55.303Z</LastUsedDate>
  <CustomerNumber>123456</CustomerNumber>
  <LockMode>R</LockMode>
  <IfDualMode>1</IfDualMode>
  <IfLockOpen>0</IfLockOpen>
  <IfForcedClosed>0</IfForcedClosed>
  <IfRoute1Issued>1</IfRoute1Issued>
  <IfRoute2Issued>0</IfRoute2Issued>
  <IfRoute3Issued>0</IfRoute3Issued>
  <IfNoAlarm>0</IfNoAlarm>
  <IfSecondLineMaintenanceCall>0</IfSecondLineMaintenanceCall>
  <IfActivationCall>0</IfActivationCall>
  <SerialNumber>823456</SerialNumber>
  <Seal>1</Seal>
  <PreviousSeal>1</PreviousSeal>
  <RouteSeal1>144</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>1</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>921772</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>600975</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>481118</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>897306</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <AuditCount>3</AuditCount>
  <GroupName>aabb</GroupName>
  <OriginalSerialNumber>0</OriginalSerialNumber>
  <Description1>123456789_1_3456789_2_3456789_3_3456789</Description1>
  <Description2>123456789_1_3456789_2_3456789_3_3456789</Description2>
  <Description3>123456789_1_3456789_2_3456789_3_3456789</Description3>
  <Description4>123456789_1_3456789_2_3456789_3_3456789</Description4>

<CustomerID>323456789_1_3456789_2_3456789_3_3456789_4_3456789_5_3456789_6_34</CustomerID>

<ATMSerialNumber>123456789_1_3456789_2_3456789_3_3456789_4_3456789_5_3456789_6_34</ATMSerialNum
ber>

<UserDefined1>123456789_1_3456789_2_3456789_3_3456789_4_3456789_5_3456789_6_34</UserDefined1>
<UserDefined2>123456789_1_3456789_2_3456789_3_3456789_4_3456789_5_3456789_6_34</UserDefined2>
<UserDefined3>123456789_1_3456789_2_3456789_3_3456789_4_3456789_5_3456789_6_34</UserDefined3>
<UserDefined4>123456789_1_3456789_2_3456789_3_3456789_4_3456789_5_3456789_6_34</UserDefined4>
  <Region>TestRegionD</Region>
  <IfUnassignedOpenCall>0</IfUnassignedOpenCall>
  <IfLastRoute1Issued>1</IfLastRoute1Issued>
  <IfLastRoute2Issued>0</IfLastRoute2Issued>
  <IfLastRoute3Issued>0</IfLastRoute3Issued>
  <User1ID1>rjrb1</User1ID1>
  <User1ID2 />
  <User1ID3 />
  <User2ID1>rzjack</User2ID1>
  <User2ID2 />
  <User2ID3 />
  <RouteName1>TestRte4</RouteName1>
  <RouteName2 />
  <RouteName3 />
  <DispatcherID1>CentranSS</DispatcherID1>
  <DispatcherID2 />
  <DispatcherID3 />
  <OpenTime1>2009-08-10T18:57:55.303Z</OpenTime1>
  <OpenTime2 xsi:nil="true" />
  <OpenTime3 xsi:nil="true" />
  <CloseTime1 xsi:nil="true" />

```

```

<CloseTime2 xsi:nil="true" />
<CloseTime3 xsi:nil="true" />
<IfPreviousRoute1Issued>1</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>0</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>0</IfPreviousRoute3Issued>
<PreviousUser1ID1>rzjill</PreviousUser1ID1>
<PreviousUser1ID2 />
<PreviousUser1ID3 />
<PreviousUser2ID1>rzjack</PreviousUser2ID1>
<PreviousUser2ID2 />
<PreviousUser2ID3 />
<PreviousRouteName1>TestRte4</PreviousRouteName1>
<PreviousRouteName2 />
<PreviousRouteName3 />
<PreviousOpenTime1>2009-08-10T18:57:42.937Z</PreviousOpenTime1>
<PreviousOpenTime2 xsi:nil="true" />
<PreviousOpenTime3 xsi:nil="true" />
<PreviousCloseTime1>2009-08-10T18:57:46.177Z</PreviousCloseTime1>
<PreviousCloseTime2 xsi:nil="true" />
<PreviousCloseTime3 xsi:nil="true" />
<ServiceBranch>the new service branch</ServiceBranch>
<Address1 />
<Address2 />
<City />
<State />
<ZIP />
<Country />
<KeyCloseSeal>0</KeyCloseSeal>
<LockHardwareModel />
<BankBranchName />
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockActivationStatus />
<LockDispatchStatus />
</LockRecord>
</LockRecordAndRouteLockRecord>
</RESPONSE_CLOSE_LOCKS_ROUTE>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran route close locks transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 4 - JSON

This example closes lock **VLK010** on route sequence 1 and 2. The lock is dispatched on route **TestRoute8** to users **rbob** and **rdave**. Lock **VLK010** is dual user to open.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/close
```


Example Input Transaction (HTTP Post) - JSON:

https://kml-3242.domain.local/CentranServiceJSON/rest/route/close

Example Input Transaction (HTTP Body) - JSON:

```
{
  "closeRouteLockRecordField" :
  [
    {
      "closeSealField" : "51" ,
      "ifForcedClosedField" : false ,
      "lockNameField" : "VLK010" ,
      "lockSequenceField" : "1"
    } ,
    {
      "closeSealField" : "13" ,
      "ifForcedClosedField" : false ,
      "lockNameField" : "VLK010" ,
      "lockSequenceField" : "2"
    }
  ] ,
  "dispatcherIDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordAndRouteLockRecordField" :
  [
    {
      "lockRecordField" :
      {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "46" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "1246576928" ,
        "bankOpenWindowField" : "1246576928" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : "\Date(1410186722523) \/" ,
        "closeTime2Field" : null ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "" ,
        "displayIssuedComboUser1Seq2Field" : "799569" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "001072" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : true ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : true ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : false ,
        "ifRoute2IssuedField" : true ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "493104" ,
        "issuedComboUser1Seq2Field" : "799569" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "704506" ,
        "issuedComboUser2Seq2Field" : "1072" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "1246576928" ,

```

```

"lastUsedDateField" : "\Date(1410186722523)\/" ,
"lockActivationStatusField" : "" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "VLK010" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1409322149527)\/" ,
"openTime2Field" : "\Date(1409322150417)\/" ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1400511514333)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "484723" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "196776" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1400511450060)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "3" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "3" ,
"previousUser1ID1Field" : "rjohn" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "rbob" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "TestRoute8" ,
"routeName2Field" : "TestRoute8" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "65" ,
"routeSeal2Field" : "3" ,
"routeSeal3Field" : "0" ,
"sealField" : "3" ,
"serialNumberField" : "532010" ,
"serviceBranchField" : "" ,
"startDateField" : "\Date(1036188938000)\/" ,
"stateField" : "" ,
"timeZoneIDField" : "" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "rbob" ,
"user1ID2Field" : "rbob" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "rdave" ,
"user2ID2Field" : "rdave" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zIPField" : ""
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Success"
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"routeLockRecordField" :
{
    "closeDateField" : "\Date(1410186722523)\/" ,
    "closeDateFieldSpecified" : true ,
    "dispatchOrderField" : "0" ,
    "ifCloseSealDuressField" : false ,
    "ifCloseSealDuressFieldSpecified" : false ,
    "ifCloseSealLowBatteryField" : false ,
    "ifCloseSealLowBatteryFieldSpecified" : false ,
    "lockNameField" : "VLK010" ,
    "lockSequenceField" : "1" ,
    "openDateField" : "\Date(1409322149527)\/" ,

```

```

        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : "rdave"
    }
},
{
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "48" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" :
        [
        ] ,
        "bankOpenDelayField" : "1246576928" ,
        "bankOpenWindowField" : "1246576928" ,
        "cityField" : "" ,
        "closeSealLengthField" : "2" ,
        "closeTime1Field" : "\\Date(1410186722523) \\/" ,
        "closeTime2Field" : "\\Date(1410186723240) \\/" ,
        "closeTime3Field" : null ,
        "countryField" : "" ,
        "customerIDField" : "" ,
        "customerNumberField" : "123456" ,
        "description1Field" : "aaaaaaaaaaaaaaaa" ,
        "description2Field" : "" ,
        "description3Field" : "" ,
        "description4Field" : "" ,
        "dispatcherID1Field" : "CentranSS" ,
        "dispatcherID2Field" : "CentranSS" ,
        "dispatcherID3Field" : "" ,
        "displayIssuedComboUser1Seq1Field" : "" ,
        "displayIssuedComboUser1Seq2Field" : "" ,
        "displayIssuedComboUser1Seq3Field" : "" ,
        "displayIssuedComboUser2Seq1Field" : "" ,
        "displayIssuedComboUser2Seq2Field" : "" ,
        "displayIssuedComboUser2Seq3Field" : "" ,
        "duressDateField" : null ,
        "groupNameField" : " " ,
        "ifActivationCallField" : false ,
        "ifDualModeField" : true ,
        "ifForcedClosedField" : false ,
        "ifLastRoute1IssuedField" : true ,
        "ifLastRoute2IssuedField" : true ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : false ,
        "ifRoute2IssuedField" : false ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "493104" ,
        "issuedComboUser1Seq2Field" : "799569" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "704506" ,
        "issuedComboUser2Seq2Field" : "1072" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "1246576928" ,
        "lastUsedDateField" : "\\Date(1410186723240) \\/" ,
        "lockActivationStatusField" : "" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "VLK010" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\\Date(1409322149527) \\/" ,
        "openTime2Field" : "\\Date(1409322150417) \\/" ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\\Date(1400511514333) \\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "484723" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "196776" ,
    }
}

```

```

        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\/Date(1400511450060)\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "3" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "3" ,
        "previousUser1ID1Field" : "rjohn" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "rbob" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "TestRoute8" ,
        "routeName2Field" : "TestRoute8" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "65" ,
        "routeSeal2Field" : "3" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "3" ,
        "serialNumberField" : "532010" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\/Date(1036188938000)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "rbob" ,
        "user1ID2Field" : "rbob" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "rdave" ,
        "user2ID2Field" : "rdave" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Success"
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "routeLockRecordField" :
    {
        "closeDateField" : "\/Date(1410186723240)\/" ,
        "closeDateFieldSpecified" : true ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "2" ,
        "openDateField" : "\/Date(1409322150417)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : "rdave"
    }
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "All the specified locks have been closed successfully."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"TRANSACTION_CLOSE_LOCKS_ROUTEField" :
{
    "closeRouteLockRecordField" :
    [
        {

```

```
        "closeSealField" : "51" ,  
        "ifForcedClosedField" : false ,  
        "lockNameField" : "VLK010" ,  
        "lockSequenceField" : "1"  
    } ,  
    {  
        "closeSealField" : "13" ,  
        "ifForcedClosedField" : false ,  
        "lockNameField" : "VLK010" ,  
        "lockSequenceField" : "2"  
    }  
] ,  
"dispatcherIDField" : "CentranSS"  
}
```

3.3.13 Web Service Route Transactions - Route Table Query

CenTran Programming Reference Manual

This transaction queries the route table for a set of route records. The Input transaction file contains a query record which in turn contains a set of route fields to create a query from. The route query does not have a 'like search' option.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the route records in the route table are retrieved.

- Route Name
- Creation Date range (Creation Date Start and Creation Date End)
- Customer ID
- Region Name
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Note: Since the route query does not have a "search like" option, all search field values (except Creation Date range fields) must completely match the values of the fields in the database. If the record for route name TestRoute needs to be searched and retrieved, the value of the route name search field has to be TestRoute and not Test or Route or any other substring of TestRoute.

Note: If the Dispatcher belongs to a local region and region control is enabled, only those routes belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region even if a different value has already been provided in the query record.

Note: For the Creation Date Range search, both the lower and upper bounds for the search have to be specified i.e. both Creation Date Start and Creation Date End have to be specified. If only Creation Date Start is specified in the query record, that search field will not have any effect on the result.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the route records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open route table.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/query
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/query
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ROUTE_QUERY>
  <RouteQueryRecord>
    <!-- char string -->
    <RouteName>TestRte1</RouteName>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <Region>TestRegionA</Region>
    <!-- date -->
    <CreationDateStart>2004-12-21T00:00:01</CreationDateStart>
    <!-- date -->
    <CreationDateEnd>2005-01-21T00:00:01</CreationDateEnd>
  </RouteQueryRecord>
  <!-- char string -->
  <DispatcherID/>
</TRANSACTION_ROUTE_QUERY>
```

Output Transaction:

```
<RESPONSE_ROUTE_QUERY>
  <TRANSACTION_ROUTE_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteQueryRecord>
      <RouteName>TestRte1</RouteName>
      <CustomerID>ACustomer</CustomerID>
      <Region>TestRegionA</Region>
      <CreationDateStart>2004-12-21T00:00:01</CreationDateStart>
      <CreationDateEnd>2005-01-21T00:00:01</CreationDateEnd>
    </RouteQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ROUTE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route record/s found satisfying the search condition.
    </Description>
  </ResultRecord>
```

```
<RouteRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RouteName>TestRte1</RouteName>
  <CreationDate>2004-12-22T15:49:18</CreationDate>
  <CustomerID>ACustomer</CustomerID>
  <Region>TestRegionA</Region>
</RouteRecord>
</RESPONSE_ROUTE_QUERY>
```

Example 2 - Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/query
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/query
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ROUTE_QUERY>
<RouteQueryRecord>
  <!-- char string -->
  <RouteName>Test</RouteName>
</RouteQueryRecord>
<!-- char string -->
<DispatcherID/>
</TRANSACTION_ROUTE_QUERY>
```

Output Transaction:

```
<RESPONSE_ROUTE_QUERY>
  <TRANSACTION_ROUTE_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteQueryRecord>
      <RouteName>Test</RouteName>
    </RouteQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ROUTE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>No route record found satisfying the search condition.
    </Description>
  </ResultRecord>
</RESPONSE_ROUTE_QUERY>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran route query transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example - JSON

This example queries the route table for routes assigned to the customer ID **North Bank**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/query
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "routeQueryRecordField" :
  {
    "creationDateEndField" : null ,
    "creationDateEndFieldSpecified" : false ,
    "creationDateStartField" : null ,
    "creationDateStartFieldSpecified" : false ,
    "customerIDField" : "North Bank" ,
    "regionField" : null ,
    "routeNameField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of route records matching the given query: 8."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "routeRecordField" :
  [
    {
      "creationDateField" : "\Date(1311000651253)\/" ,
      "creationDateFieldSpecified" : true ,
      "customerIDField" : "North Bank" ,
      "regionField" : "KENTUCKY" ,
      "routeNameField" : "CentranTest"
    } ,
    {
      "creationDateField" : "\Date(1311000652203)\/" ,
      "creationDateFieldSpecified" : true ,
      "customerIDField" : "North Bank" ,
      "regionField" : "KENTUCKY" ,
      "routeNameField" : "Gen2Route1"
    } ,
    {
      "creationDateField" : "\Date(1311000664013)\/" ,
      "creationDateFieldSpecified" : true ,
      "customerIDField" : "North Bank" ,
      "regionField" : "KENTUCKY" ,
      "routeNameField" : "TestGen2Close"
    } ,
    {
      "creationDateField" : "\Date(1311000664620)\/" ,
      "creationDateFieldSpecified" : true ,
      "customerIDField" : "North Bank" ,
      "regionField" : "KENTUCKY" ,
      "routeNameField" : "TestGen2Close2"
    } ,
    {
      "creationDateField" : "\Date(1341345656687)\/" ,
      "creationDateFieldSpecified" : true ,
      "customerIDField" : "North Bank" ,
      "regionField" : "KENTUCKY" ,
      "routeNameField" : "TestRoute2"
    } ,
    {
      "creationDateField" : "\Date(1311000665777)\/" ,
      "creationDateFieldSpecified" : true ,
      "customerIDField" : "North Bank" ,
      "regionField" : "KENTUCKY" ,
      "routeNameField" : "TestRoute4"
    } ,
    {
      "creationDateField" : "\Date(1399057392447)\/" ,
      "creationDateFieldSpecified" : true ,
      "customerIDField" : "North Bank" ,
      "regionField" : "KENTUCKY" ,
      "routeNameField" : "TestRoute5"
    } ,
    {
      "creationDateField" : "\Date(1409251194040)\/" ,
      "creationDateFieldSpecified" : true ,
      "customerIDField" : "North Bank" ,
      "regionField" : "KENTUCKY" ,
      "routeNameField" : "TestRoute8"
    }
  ] ,
  "tTRANSACTION_ROUTE_QUERYField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "routeQueryRecordField" :

```



```
{
    "creationDateEndField" : null ,
    "creationDateEndFieldSpecified" : false ,
    "creationDateStartField" : null ,
    "creationDateStartFieldSpecified" : false ,
    "customerIDField" : "North Bank" ,
    "regionField" : null ,
    "routeNameField" : null
}
```

3.3.14 Web Service Route Transactions - Route Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the route table matching the given query condition. It operates in the same manner as the Route Table Query transaction.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/query-count
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/query-count
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ROUTE_QUERY_COUNT>
  <RouteQueryRecord>
    <!-- char string -->
    <Region>TestRegionA</Region>
  </RouteQueryRecord>
  <!-- char string -->
  <DispatcherID/>
</TRANSACTION_ROUTE_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_ROUTE_QUERY_COUNT>
  <TRANSACTION_ROUTE_QUERY_COUNT xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteQueryRecord>
      <Region>TestRegionA</Region>
    </RouteQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ROUTE_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of route records matching the given query: 2.</Description>
  </ResultRecord>
  <QueryCount>2</QueryCount>
</RESPONSE_ROUTE_QUERY_COUNT>
```

Example 2 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/query-count
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/query-count
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ROUTE_QUERY_COUNT>
  <RouteQueryRecord>
    <!-- char string -->
    <Region>TestRegionA</Region>
  </RouteQueryRecord>
  <!-- char string -->
  <DispatcherID/>
</TRANSACTION_ROUTE_QUERY_COUNT>
```

Output Transaction:

In this example, SuperUserTestRegionD belongs to a local region TestRegionD and therefore replaces TestRegionA as the search field for the query. Only one route in TestRegionD is found.

```
<RESPONSE_ROUTE_QUERY_COUNT>
  <TRANSACTION_ROUTE_QUERY_COUNT xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteQueryRecord>
      <Region>TestRegionA</Region>
    </RouteQueryRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_ROUTE_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of route records matching the given query: 1.
  </Description>
  </ResultRecord>
  <QueryCount>1</QueryCount>
</RESPONSE_ROUTE_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran route query count transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example queries the route table for a count of routes created after 1 JAN 2014.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "routeQueryRecordField" :
  {
    "creationDateEndField" : null ,
    "creationDateEndFieldSpecified" : false ,
    "creationDateStartField" : "\/Date(1388552400000-0500)\/" ,
    "creationDateStartFieldSpecified" : true ,
    "customerIDField" : null ,
    "regionField" : null ,
    "routeNameField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "2" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of route records matching the given query: 2."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_ROUTE_QUERY_COUNTField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "routeQueryRecordField" :
    {
      "creationDateEndField" : null ,
      "creationDateEndFieldSpecified" : false ,
      "creationDateStartField" : "\/Date(1388552400000-0500)\/" ,
      "creationDateStartFieldSpecified" : true ,
      "customerIDField" : null ,
      "regionField" : null ,
      "routeNameField" : null
    }
  }
}
```


3.3.15 Web Service Route Transactions - Route Lock Table Query

CenTran Programming Reference Manual

This transaction queries the route lock table for a set of route lock records. The Input transaction file contains a query record which in turn contains a set of route lock fields to create a query from. The route lock query does not have a "search like" option.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the route lock records in the route lock table are retrieved.

- Lock Name
- Route Name
- Lock Sequence
- User ID (searches for this User ID in both the FLM1ID and FLM2ID route lock record fields)
- Open Time Date range (Open Date Start and Open Date End)
- Close Time Date range (Close Date Start and Close Date End)
- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Note: Since the route lock query does not have a 'like search' option, all search field values (except the Date range fields) must completely match the values of the fields in the database.

Note: If the Dispatcher belongs to a local region and region control is enabled, the search goes through 2 phases. In the first phase, only those route locks satisfying the search condition are retrieved. In the second phase, the region of each retrieved route lock's route is compared against the dispatcher's region and only those that match are displayed by CenTran.

Note: For the Open Date Range search and Close Date Range search, both the lower and upper bounds of the range have to be specified. If only the lower bound (Date Start) or if only the upper bound (Date End) is specified, that search field will be ignored.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the route lock records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error - failed to open route table.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/lock-query
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/lock-query
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ROUTE_LOCK_QUERY>
  <RouteLockQueryRecord>
    <!-- char string -->
    <RouteName>TestRte1</RouteName>
    <!-- char string -->
    <LockName>VLK020</LockName>
    <!-- char string -->
    <LockSequence>1</LockSequence>
    <!-- char string -->
    <UserID>rzjohn</UserID>
    <!-- date -->
    <OpenDateStart>2004-12-21T00:00:01</OpenDateStart>
    <!-- date -->
    <OpenDateEnd>2004-12-23T00:00:01</OpenDateEnd>
    <!-- date -->
    <CloseDateStart>2004-12-24T00:00:01</CloseDateStart>
    <!-- date -->
    <CloseDateEnd>2004-12-26T00:00:01</CloseDateEnd>
  </RouteLockQueryRecord>
  <!-- char string -->
  <DispatcherID/>
</TRANSACTION_ROUTE_LOCK_QUERY>
```

Output Transaction:

```
<RESPONSE_ROUTE_LOCK_QUERY>
  <TRANSACTION_ROUTE_LOCK_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteLockQueryRecord>
      <RouteName>TestRte1</RouteName>
      <LockName>VLK020</LockName>
      <LockSequence>1</LockSequence>
      <UserID>rzjohn</UserID>
      <OpenDateStart>2004-12-21T00:00:01</OpenDateStart>
      <OpenDateEnd>2004-12-23T00:00:01</OpenDateEnd>
      <CloseDateStart>2004-12-24T00:00:01</CloseDateStart>
      <CloseDateEnd>2004-12-26T00:00:01</CloseDateEnd>
    </RouteLockQueryRecord>
```

```

    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ROUTE_LOCK_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route lock record/s found satisfying the search condition.
  </Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK020</LockName>
    <User1ID>rzjane</User1ID>
    <User2ID>rzjohn</User2ID>
    <RouteName>TestRte1</RouteName>
    <OpenDate>2004-12-22T15:49:18</OpenDate>
    <CloseDate>2004-12-25T15:49:18</CloseDate>
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
</RESPONSE_ROUTE_LOCK_QUERY>

```

Example 2 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/lock-query
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/lock-query
```

Example Input Transaction (HTTP Body):

```

<TRANSACTION_ROUTE_LOCK_QUERY>
<!-- route lock query record -->
<RouteLockQueryRecord>
</RouteLockQueryRecord>
<!-- char string -->
<DispatcherID/>
</TRANSACTION_ROUTE_LOCK_QUERY>

```

Output Transaction:

In this case there are no search fields specified in the route lock query record but the dispatcher belongs to a local region 'TestRegionD'. Therefore, all the locks on routes which belong to TestRegionD are displayed. Here, only those locks on route TestRte4 are retrieved because only TestRte4 belongs to TestRegionD.

```

<RESPONSE_ROUTE_LOCK_QUERY>
  <TRANSACTION_ROUTE_LOCK_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteLockQueryRecord></RouteLockQueryRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_ROUTE_LOCK_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Route lock record/s found satisfying the search condition.
  </Description>
  </ResultRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <User1ID>rzjack</User1ID>
    <User2ID />
    <RouteName>TestRte4</RouteName>
    <OpenDate>2009-02-18T16:00:58</OpenDate>
    <CloseDate>2009-02-18T23:57:38</CloseDate>
    <LockSequence>1</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
  <RouteLockRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <LockName>VLK014</LockName>
    <User1ID>rzjill</User1ID>
    <User2ID />
    <RouteName>TestRte4</RouteName>
    <OpenDate>2009-02-18T23:18:29.342Z</OpenDate>
    <CloseDate xsi:nil="true" />
    <LockSequence>2</LockSequence>
    <DispatchOrder>0</DispatchOrder>
    <ResultCode>0</ResultCode>
    <IfCloseSealDuress>0</IfCloseSealDuress>
    <IfCloseSealLowBattery>0</IfCloseSealLowBattery>
  </RouteLockRecord>
</RESPONSE_ROUTE_LOCK_QUERY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a **+** indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran route lock query transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example queries the route lock table for locks assigned to route **TestRoute8** that were closed after **8 SEP 2014**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/lock-query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/lock-query
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "routeLockQueryRecordField" :
  {
    "closeDateEndField" : null ,
    "closeDateEndFieldSpecified" : false ,
    "closeDateStartField" : "\\Date(1410148800000-0400)\\/" ,
    "closeDateStartFieldSpecified" : true ,
    "lockNameField" : null ,
    "lockSequenceField" : null ,
    "openDateEndField" : null ,
    "openDateEndFieldSpecified" : false ,
    "openDateStartField" : null ,
    "openDateStartFieldSpecified" : false ,
    "routeNameField" : "TestRoute8" ,
    "userIDField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of route lock records matching the given query: 2."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "routeLockRecordField" :
  [
    {
      "closeDateField" : "\\Date(1410186722523)\\/" ,
      "closeDateFieldSpecified" : true ,
      "dispatchOrderField" : "0" ,
      "ifCloseSealDuressField" : false ,
      "ifCloseSealDuressFieldSpecified" : false ,
      "ifCloseSealLowBatteryField" : false ,
      "ifCloseSealLowBatteryFieldSpecified" : false ,
      "lockNameField" : "VLK010" ,
      "lockSequenceField" : "1" ,
      "openDateField" : "\\Date(1409322149527)\\/" ,
      "openDateFieldSpecified" : true ,
      "resultCodeField" : "0" ,
      "routeNameField" : "TestRoute8" ,
      "userIDField" : "rbob" ,
    }
  ]
}
```

```

        "user2IDField" : "rdave"
    } ,
    {
        "closeDateField" : "\/Date(1410186723240)\/" ,
        "closeDateFieldSpecified" : true ,
        "dispatchOrderField" : "0" ,
        "ifCloseSealDuressField" : false ,
        "ifCloseSealDuressFieldSpecified" : false ,
        "ifCloseSealLowBatteryField" : false ,
        "ifCloseSealLowBatteryFieldSpecified" : false ,
        "lockNameField" : "VLK010" ,
        "lockSequenceField" : "2" ,
        "openDateField" : "\/Date(1409322150417)\/" ,
        "openDateFieldSpecified" : true ,
        "resultCodeField" : "0" ,
        "routeNameField" : "TestRoute8" ,
        "user1IDField" : "rbob" ,
        "user2IDField" : "rdave"
    }
} ,
"tTRANSACTION_ROUTE_LOCK_QUERYField" :
{
    "dispatcherIDField" : "CentranSS" ,
    "routeLockQueryRecordField" :
    {
        "closeDateEndField" : null ,
        "closeDateEndFieldSpecified" : false ,
        "closeDateStartField" : "\/Date(1410148800000-0400)\/" ,
        "closeDateStartFieldSpecified" : true ,
        "lockNameField" : null ,
        "lockSequenceField" : null ,
        "openDateEndField" : null ,
        "openDateEndFieldSpecified" : false ,
        "openDateStartField" : null ,
        "openDateStartFieldSpecified" : false ,
        "routeNameField" : "TestRoute8" ,
        "userIDField" : null
    }
}
}

```


3.3.16 Web Service Route Transactions - Route Lock Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the route lock table matching the given query condition. It operates in the same manner as the Route Lock Table Query transaction.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/route/lock-query-count
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/route/lock-query-count
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ROUTE_LOCK_QUERY_COUNT>
  <!-- route lock query record -->
  <RouteLockQueryRecord>
    <!-- char string -->
    <RouteName>TestRte1</RouteName>
    <!-- char string -->
    <LockName>VLK018</LockName>
  </RouteLockQueryRecord>
  <!-- char string -->
  <DispatcherID>
</TRANSACTION_ROUTE_LOCK_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_ROUTE_LOCK_QUERY_COUNT>
  <TRANSACTION_ROUTE_LOCK_QUERY_COUNT xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <RouteLockQueryRecord></RouteLockQueryRecord>
    <!-- char string -->
    <RouteName>TestRte1</RouteName>
    <!-- char string -->
    <LockName>VLK018</LockName>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_ROUTE_LOCK_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of route lock records matching the given query: 2.
  </Description>
  </ResultRecord>
  <QueryCount>2</QueryCount>
</RESPONSE_ROUTE_LOCK_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran route lock query count transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the route lock table for a count of locks on route **TestRoute8**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/route/lock-query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/route/lock-query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "routeLockQueryRecordField" :
  {
    "closeDateEndField" : null ,
    "closeDateEndFieldSpecified" : false ,
    "closeDateStartField" : null ,
    "closeDateStartFieldSpecified" : false ,
    "lockNameField" : null ,
    "lockSequenceField" : null ,
    "openDateEndField" : null ,
    "openDateEndFieldSpecified" : false ,
    "openDateStartField" : null ,
    "openDateStartFieldSpecified" : false ,
    "routeNameField" : "TestRoute8" ,
    "userIDField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "9" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of route lock records matching the given query: 9."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_ROUTE_LOCK_QUERY_COUNTField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "routeLockQueryRecordField" :
    {
      "closeDateEndField" : null ,
      "closeDateEndFieldSpecified" : false ,
      "closeDateStartField" : null ,
      "closeDateStartFieldSpecified" : false ,
      "lockNameField" : null ,
      "lockSequenceField" : null ,
      "openDateEndField" : null ,
      "openDateEndFieldSpecified" : false ,
      "openDateStartField" : null ,
      "openDateStartFieldSpecified" : false ,
      "routeNameField" : "TestRoute8" ,
      "userIDField" : null
    }
  }
}
```

3.4.1 Web Service User Transactions - Change User Name

CenTran Programming Reference Manual

This transaction is used to change a user name, based off of the original name and a given new name.

This transaction renames a user. It is the equivalent of the 'Rename User' operation from a user report in Cencon. It adds a record into the user history table for the old user name. It updates records in the lock log table if the user is a route or flm lock key, and is currently dispatched to a lock. It also updates the route lock table if the user is currently dispatched on a route.

Transaction information required:

- Old User ID
- New User ID

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

Example 1 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/change_name
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/change_name
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_CHANGE_USER_NAME>
  <OldUserID>rzjill</OldUserID>
  <NewUserID>rzjane</NewUserID>
  <DispatcherID/>
</TRANSACTION_CHANGE_USER_NAME>
```

Example Output Transaction:

```
<RESPONSE_CHANGE_USER_NAME>
  <TRANSACTION_CHANGE_USER_NAME>
    <OldUserID>rzjill</OldUserID>
    <NewUserID>rzjane</NewUserID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CHANGE_USER_NAME>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FAILED_RENAME_USER_ID_NEW_USER_ID_ALREADY_EXISTS</ErrorCode>
    <Description>Error in renaming user rzjill. Failed to rename user. The new user ID
already exists. A user can not be renamed to an already existing user ID.</Description>
  </ResultRecord>
</RESPONSE_CHANGE_USER_NAME>
```

Example 2 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/change_name
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/change_name
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_CHANGE_USER_NAME>
  <OldUserID>rzjill</OldUserID>
  <NewUserID>rzgail</NewUserID>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_CHANGE_USER_NAME>
```

Output Transaction:

```

<RESPONSE_CHANGE_USER_NAME>
  <TRANSACTION_CHANGE_USER_NAME>
    <OldUserID>rzjill</OldUserID>
    <NewUserID>rzgail</NewUserID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CHANGE_USER_NAME>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>User rzjill has been successfully changed to rzgail.
  </Description>
  </ResultRecord>
</RESPONSE_CHANGE_USER_NAME>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran change user name transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/user/change_name
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/user/change_name
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "dispatcherIDField" : null ,
  "newUserIDField" : "Dave - Route" ,
  "oldUserIDField" : "F12"
}

```

Example Output Transaction - JSON:

```

{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "The user rename succeeded."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_CHANGE_USER_NAMEField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "newUserIDField" : "Dave - Route" ,
    "oldUserIDField" : "F12"
  }
}

```


3.4.2 Web Service User Transactions - Read User By Name

CenTran Programming Reference Manual

This transaction is used to read data for a user from the Cencon database based on the user name.

Transaction information required:

- User ID - Uniquely identifies a user record.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the retrieved user record..

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- User doesn't exist.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Example

Input Transaction Format: (HTTP Get)

```
https://{host}/CentranService/rest/user-ids/{USERID}/data
```

Example Input Transaction: (HTTP Get)

```
https://kml-3242.domain.local/CentranService/rest/user-ids/F12/data
```

Example Output Transaction:

```
<RESPONSE_READ_USER>
  <TRANSACTION_READ_USER>
    <UserID>F12</UserID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_USER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>The user was successfully read from the database.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>F12</UserID>
    <SecurityLevel>2</SecurityLevel>
    <KeyID>0000006D5632</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>10</NumberCombosIssued>
    <CreationDate/>
    <DeletionDate/>
    <Nickname>Dave</Nickname>
    <NicknameExpirationDate/>
    <GroupName/>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Window1Start>0</Window1Start>
    <Window1Duration>0</Window1Duration>
    <IfWindow1Sun>>false</IfWindow1Sun>
    <IfWindow1Mon>>false</IfWindow1Mon>
    <IfWindow1Tue>>false</IfWindow1Tue>
    <IfWindow1Wed>>false</IfWindow1Wed>
    <IfWindow1Thu>>false</IfWindow1Thu>
    <IfWindow1Fri>>false</IfWindow1Fri>
    <IfWindow1Sat>>false</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>>false</IfWindow2Sun>
    <IfWindow2Mon>>false</IfWindow2Mon>
    <IfWindow2Tue>>false</IfWindow2Tue>
    <IfWindow2Wed>>false</IfWindow2Wed>
    <IfWindow2Thu>>false</IfWindow2Thu>
    <IfWindow2Fri>>false</IfWindow2Fri>
    <IfWindow2Sat>>false</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>>false</IfWindow3Sun>
    <IfWindow3Mon>>false</IfWindow3Mon>
    <IfWindow3Tue>>false</IfWindow3Tue>
    <IfWindow3Wed>>false</IfWindow3Wed>
    <IfWindow3Thu>>false</IfWindow3Thu>
    <IfWindow3Fri>>false</IfWindow3Fri>
    <IfWindow3Sat>>false</IfWindow3Sat>
```

```

<Region>KENTUCKY</Region>
<ServiceBranch>North Bank Branch 22</ServiceBranch>
<FirstName>David</FirstName>
<MiddleName>K</MiddleName>
<LastName>Rockefeller</LastName>
<LastUsedDate/>
<AuthorizationRole>Route</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>0</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate>2009-04-12T08:00:00Z</EnabledStartDate>
<EnabledEndDate>2013-01-01T08:00:00Z</EnabledEndDate>
<BankBranchName/>
<CustomerID>ACustomer</CustomerID>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>false</IfMustChangeCombo>
<IfLegacyImport>false</IfLegacyImport>
</UserRecord>
</RESPONSE_READ_USER>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read user by name transaction:

itemElementNameField - Enumeration array of itemsField array field contents:

itemsField is an array containing either user name or array values for key can type and serial number.

Value	Enumerated Value	Meaning
0	CanType	itemField array element contains key can type.
1	KeyID	itemField array element contains 6 byte key ID.
2	UserID	itemField array element contains user name.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example

This example reads the user named **Dave - Route** from the user table. Note that spaces are encoded as **%20** in URLs.

Input Transaction Format (HTTP Get) - JSON:

```
https://{host}/CentranServiceJSON/rest/user-ids/{USERID}/data
```

Example Input Transaction (HTTP Get) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/user-ids/Dave%20-%20Route/data
```

Example Output Transaction - JSON:

```

{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "The user was successfully read from the database."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_READ_USERField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "itemsElementNameField" :
    [

```

```

        2
    ],
    "itemsField" :
    [
        "Dave - Route"
    ]
},
"userRecordField" :
{
    "authorizationRoleField" : "Route" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "canTypeField" :
    [
        4
    ] ,
    "creationDateField" : "\\Date(1410196159790)\/" ,
    "customerIDField" : "ACustomer" ,
    "deletionDateField" : null ,
    "enabledEndDateField" : "\\Date(1357027200000)\/" ,
    "enabledStartDateField" : "\\Date(1239523200000)\/" ,
    "firstNameField" : "David" ,
    "groupNameField" : "" ,
    "ifLegacyImportField" : false ,
    "ifMustChangeComboField" : false ,
    "ifWindow1FriField" : false ,
    "ifWindow1MonField" : false ,
    "ifWindow1SatField" : false ,
    "ifWindow1SunField" : false ,
    "ifWindow1ThuField" : false ,
    "ifWindow1TueField" : false ,
    "ifWindow1WedField" : false ,
    "ifWindow2FriField" : false ,
    "ifWindow2MonField" : false ,
    "ifWindow2SatField" : false ,
    "ifWindow2SunField" : false ,
    "ifWindow2ThuField" : false ,
    "ifWindow2TueField" : false ,
    "ifWindow2WedField" : false ,
    "ifWindow3FriField" : false ,
    "ifWindow3MonField" : false ,
    "ifWindow3SatField" : false ,
    "ifWindow3SunField" : false ,
    "ifWindow3ThuField" : false ,
    "ifWindow3TueField" : false ,
    "ifWindow3WedField" : false ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        109 ,
        86 ,
        50
    ] ,
    "lastNameField" : "Rockefeller" ,
    "lastUsedDateField" : "\\Date(1410196159790)\/" ,
    "maximumNumberAllowedCombosField" : "0" ,
    "middleNameField" : "K" ,
    "nicknameExpirationDateField" : null ,
    "nicknameField" : "Dave" ,
    "numberCombosIssuedField" : "10" ,
    "numberTimeWindowsField" : "0" ,
    "regionField" : "KENTUCKY" ,
    "securityLevelField" : "2" ,
    "serviceBranchField" : "North Bank Branch 22" ,
    "totalNumberCombosIssuedField" : "0" ,
    "userComboField" : "0" ,
    "userIDField" : "Dave - Route" ,
    "window1DurationField" : "0" ,
    "window1StartField" : "0" ,
    "window2DurationField" : "0" ,
    "window2StartField" : "0" ,
    "window3DurationField" : "0" ,
    "window3StartField" : "0"
}
}
}

```


3.4.3 Web Service User Transactions - Read User By Key Serial Number

CenTran Programming Reference Manual

This transaction is used to read data for a user from the Cencon database based on the user key serial number (Can Type / Key ID).

Transaction information required:

- User key serial number (Can Type / Key ID) - Uniquely identifies a user record.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record data from Cencon database

Failure:

- Result record indicating failure

Example

Input Transaction Format: (HTTP Get)

```
https://{host}/CentranService/rest/user-keyserials/{CANTYPE}/{KEYID}/data
```

Example Input Transaction: (HTTP Get)

```
https://kml-3242.domain.local/CentranService/rest/user-keyserials/04/0000006D5632/data
```

Example Output Transaction:

```
<RESPONSE_READ_USER>
  <TRANSACTION_READ_USER>
    <CanType>04</CanType>
    <KeyID>00000023F0D3</KeyID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_USER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>The user was successfully read from the database.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>F12</UserID>
    <SecurityLevel>2</SecurityLevel>
    <KeyID>0000006D5632</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>10</NumberCombosIssued>
    <CreationDate/>
    <DeletionDate/>
    <Nickname>Dave</Nickname>
    <NicknameExpirationDate/>
    <GroupName/>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Window1Start>0</Window1Start>
    <Window1Duration>0</Window1Duration>
    <IfWindow1Sun>false</IfWindow1Sun>
    <IfWindow1Mon>false</IfWindow1Mon>
    <IfWindow1Tue>false</IfWindow1Tue>
    <IfWindow1Wed>false</IfWindow1Wed>
    <IfWindow1Thu>false</IfWindow1Thu>
    <IfWindow1Fri>false</IfWindow1Fri>
    <IfWindow1Sat>false</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>false</IfWindow2Sun>
    <IfWindow2Mon>false</IfWindow2Mon>
    <IfWindow2Tue>false</IfWindow2Tue>
    <IfWindow2Wed>false</IfWindow2Wed>
    <IfWindow2Thu>false</IfWindow2Thu>
    <IfWindow2Fri>false</IfWindow2Fri>
    <IfWindow2Sat>false</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>false</IfWindow3Sun>
    <IfWindow3Mon>false</IfWindow3Mon>
    <IfWindow3Tue>false</IfWindow3Tue>
    <IfWindow3Wed>false</IfWindow3Wed>
    <IfWindow3Thu>false</IfWindow3Thu>
    <IfWindow3Fri>false</IfWindow3Fri>
    <IfWindow3Sat>false</IfWindow3Sat>
```

```

<Region>KENTUCKY</Region>
<ServiceBranch>North Bank Branch 22</ServiceBranch>
<FirstName>David</FirstName>
<MiddleName>K</MiddleName>
<LastName>Rockefeller</LastName>
<LastUsedDate/>
<AuthorizationRole>Route</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>0</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate>2009-04-12T08:00:00Z</EnabledStartDate>
<EnabledEndDate>2013-01-01T08:00:00Z</EnabledEndDate>
<BankBranchName/>
<CustomerID>ACustomer</CustomerID>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>false</IfMustChangeCombo>
<IfLegacyImport>false</IfLegacyImport>
</UserRecord>
</RESPONSE_READ_USER>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read user by key serial number transaction:

itemElementNameField - Enumeration array of itemsField field array contents:

itemsField is an array containing either user name or array values for key can type and serial number.

Value	Enumerated Value	Meaning
0	CanType	itemField array element contains key can type.
1	KeyID	itemField array element contains 6 byte key ID.
2	UserID	itemField array element contains user name.

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example

This example reads the user named **Dave - Route** from the user table. Note that spaces are encoded as **%20** in URLs.

Input Transaction Format (HTTP Get) - JSON:

```
https://{host}/CentranServiceJSON/rest/user-keyserials/{CANTYPE}/{KEYID}/data
```

Example Input Transaction (HTTP Get) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/04/0000006D5632/data
```

Example Output Transaction - JSON:

```

{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "The user was successfully read from the database."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_READ_USERField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "itemsElementNameField" :
    [

```

```

        0 ,
        1 ,
    ] ,
    "itemsField" :
    [
        [
            4
        ] ,
        [
            0 ,
            0 ,
            0 ,
            109 ,
            86 ,
            50
        ]
    ]
} ,
"userRecordField" :
{
    "authorizationRoleField" : "Route" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "canTypeField" :
    [
        4
    ] ,
    "creationDateField" : "\/Date(1410196159790)\/" ,
    "customerIDField" : "ACustomer" ,
    "deletionDateField" : null ,
    "enabledEndDateField" : "\/Date(1357027200000)\/" ,
    "enabledStartDateField" : "\/Date(1239523200000)\/" ,
    "firstNameField" : "David" ,
    "groupNameField" : "" ,
    "ifLegacyImportField" : false ,
    "ifMustChangeComboField" : false ,
    "ifWindow1FriField" : false ,
    "ifWindow1MonField" : false ,
    "ifWindow1SatField" : false ,
    "ifWindow1SunField" : false ,
    "ifWindow1ThuField" : false ,
    "ifWindow1TueField" : false ,
    "ifWindow1WedField" : false ,
    "ifWindow2FriField" : false ,
    "ifWindow2MonField" : false ,
    "ifWindow2SatField" : false ,
    "ifWindow2SunField" : false ,
    "ifWindow2ThuField" : false ,
    "ifWindow2TueField" : false ,
    "ifWindow2WedField" : false ,
    "ifWindow3FriField" : false ,
    "ifWindow3MonField" : false ,
    "ifWindow3SatField" : false ,
    "ifWindow3SunField" : false ,
    "ifWindow3ThuField" : false ,
    "ifWindow3TueField" : false ,
    "ifWindow3WedField" : false ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        109 ,
        86 ,
        50
    ] ,
    "lastNameField" : "Rockefeller" ,
    "lastUsedDateField" : "\/Date(1410196159790)\/" ,
    "maximumNumberAllowedCombosField" : "0" ,
    "middleNameField" : "K" ,
    "nicknameExpirationDateField" : null ,
    "nicknameField" : "Dave" ,
    "numberCombosIssuedField" : "10" ,
    "numberTimeWindowsField" : "0" ,
    "regionField" : "KENTUCKY" ,
    "securityLevelField" : "2" ,
    "serviceBranchField" : "North Bank Branch 22" ,
    "totalNumberCombosIssuedField" : "0" ,
    "userComboField" : "0" ,
    "userIDField" : "Dave - Route" ,
    "window1DurationField" : "0" ,
    "window1StartField" : "0" ,
    "window2DurationField" : "0" ,
    "window2StartField" : "0" ,
    "window3DurationField" : "0" ,
    "window3StartField" : "0"
}
}

```


3.4.4 Web Service User Transactions - Update User Data

CenTran Programming Reference Manual

This transaction is used to update the database information for a user based on the user name or the user key serial number (Can Type / Key ID).

This transaction updates data for a user. The user fields to be updated have to be specified in the input transaction. Those user fields that are not specified in the input transaction are not changed from their current values. Region for a special supervisor will not be updated because a special supervisor should not be assigned to any region.

Transaction information required:

- User ID (uniquely identifies a user record) or Can Type and Key ID (both these fields together uniquely identifies a user record)
- Nickname (Optional) - The new value for this field
- Nickname Expiration Date (Optional) - The new value for this field
- Region (Optional) - The new value for this field
- Service Branch (Optional) - The new value for this field
- First Name (Optional) - The new value for this field
- Middle Name (Optional) - The new value for this field
- Last Name (Optional) - The new value for this field
- Customer ID (Optional) - The new value for this field
- Maximum Number Allowed Combos (Optional) - The new value for this field
- Enabled Start Date (Optional) - The new value for this field
- Enabled End Date (Optional) - The new value for this field

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the entire updated user record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- User doesn't exist.
- Invalid Customer ID (Customer ID not found in database).
- Invalid Region (Region not found in database)
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/update
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/update
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_UPDATE_USER>
  <UpdateUserRecd>
    <Region>TestReg</Region>
    <Nickname>jill</Nickname>
    <UserID>rzjill</UserID>
  </UpdateUserRecord>
  <DispatcherID/>
</TRANSACTION_UPDATE_USER>
```

Output Transaction:

The transaction fails because the new region does not exist in the region table of the database.

```
<RESPONSE_UPDATE_USER>
  <TRANSACTION_UPDATE_USER>
    <UpdateUserRecord>
      <Region>TestReg</Region>
      <Nickname>jill</Nickname>
      <UserID>rzjill</UserID>
    </UpdateUserRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_USER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_CHANGE_REGION_DOESNT_EXIST</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to update user region. The specified region does not exist:
TestReg</Description>
```

```
</ResultRecord>
</RESPONSE_UPDATE_USER>
```

Example 2 - Success updating user by User ID

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/update
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242/CentranService/rest/user/update
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_UPDATE_USER>
  <UpdateUserRecord>
    <EnabledEndDate>2013-01-01T08:00:00</EnabledEndDate>
    <EnabledStartDate>2009-04-12T08:00:00</EnabledStartDate>
    <CustomerID>ACustomer</CustomerID>
    <LastName>Rockefeller</LastName>
    <MiddleName>K</MiddleName>
    <FirstName>David</FirstName>
    <ServiceBranch>North Bank Branch 22</ServiceBranch>
    <Region>KENTUCKY</Region>
    <NicknameExpirationDate>2012-08-22T04:00:00</NicknameExpirationDate>
    <Nickname>Dave</Nickname>
    <UserID>F12</UserID>
  </UpdateUserRecord>
  <DispatcherID/>
</TRANSACTION_UPDATE_USER>
```

Output Transaction:

The transaction succeeds and the specified user fields are updated with new values.

```
<RESPONSE_UPDATE_USER>
  <TRANSACTION_UPDATE_USER>
    <UpdateUserRecord>
      <EnabledEndDate>2013-01-01T08:00:00</EnabledEndDate>
      <EnabledStartDate>2009-04-12T08:00:00</EnabledStartDate>
      <CustomerID>ACustomer</CustomerID>
      <LastName>Rockefeller</LastName>
      <MiddleName>K</MiddleName>
      <FirstName>David</FirstName>
      <ServiceBranch>North Bank Branch 22</ServiceBranch>
      <Region>KENTUCKY</Region>
      <NicknameExpirationDate>2012-08-22T04:00:00</NicknameExpirationDate>
      <Nickname>Dave</Nickname>
      <UserID>F12</UserID>
    </UpdateUserRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_USER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>The user update succeeded.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>F12</UserID>
    <SecurityLevel>2</SecurityLevel>
    <KeyID>0000006D5632</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>10</NumberCombosIssued>
    <CreationDate/>
    <DeletionDate/>
    <Nickname>Dave</Nickname>
    <NicknameExpirationDate>2012-08-22T04:00:00Z</NicknameExpirationDate>
    <GroupName/>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Window1Start>0</Window1Start>
    <Window1Duration>0</Window1Duration>
    <IfWindow1Sun>false</IfWindow1Sun>
    <IfWindow1Mon>false</IfWindow1Mon>
    <IfWindow1Tue>false</IfWindow1Tue>
    <IfWindow1Wed>false</IfWindow1Wed>
    <IfWindow1Thu>false</IfWindow1Thu>
    <IfWindow1Fri>false</IfWindow1Fri>
    <IfWindow1Sat>false</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>false</IfWindow2Sun>
    <IfWindow2Mon>false</IfWindow2Mon>
    <IfWindow2Tue>false</IfWindow2Tue>
    <IfWindow2Wed>false</IfWindow2Wed>
    <IfWindow2Thu>false</IfWindow2Thu>
    <IfWindow2Fri>false</IfWindow2Fri>
    <IfWindow2Sat>false</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
```

```

<IfWindow3Sun>false</IfWindow3Sun>
<IfWindow3Mon>false</IfWindow3Mon>
<IfWindow3Tue>false</IfWindow3Tue>
<IfWindow3Wed>false</IfWindow3Wed>
<IfWindow3Thu>false</IfWindow3Thu>
<IfWindow3Fri>false</IfWindow3Fri>
<IfWindow3Sat>false</IfWindow3Sat>
<Region>KENTUCKY</Region>
<ServiceBranch>North Bank Branch 22</ServiceBranch>
<FirstName>David</FirstName>
<MiddleName>K</MiddleName>
<LastName>Rockefeller</LastName>
<LastUsedDate/>
<AuthorizationRole>Route</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>0</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate>2009-04-12T08:00:00Z</EnabledStartDate>
<EnabledEndDate>2013-01-01T08:00:00Z</EnabledEndDate>
<BankBranchName/>
<CustomerID>ACustomer</CustomerID>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>false</IfMustChangeCombo>
<IfLegacyImport>false</IfLegacyImport>
</UserRecord>
</RESPONSE_UPDATE_USER>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran update user transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example

This example sets the first, middle and last name, as well as the service branch, for user ID **FLM SHA Key 6**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/user/update
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/user/update
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "dispatcherIDField" : null ,
  "updateUserRecordField" :
  {
    "canTypeField" : null ,
    "customerIDField" : null ,
    "enabledEndDateField" : null ,
    "enabledEndDateFieldSpecified" : false ,
    "enabledStartDateField" : null ,
    "enabledStartDateFieldSpecified" : false ,
    "firstNameField" : "Fred" ,
    "keyIDField" : null ,
    "lastNameField" : "Farber" ,
    "maximumNumberAllowedCombosField" : null ,
    "middleNameField" : "Forth" ,
    "nicknameExpirationDateField" : null ,
    "nicknameExpirationDateFieldSpecified" : false ,
    "nicknameField" : null ,

```



```

        "regionField" : null ,
        "serviceBranchField" : "North Bank Branch 6" ,
        "userIDField" : "FLM SHA Key 6"
    }
}

```

Example Output Transaction - JSON:

```

{
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "The user update succeeded."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_UPDATE_USERField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "updateUserRecordField" :
        {
            "canTypeField" : null ,
            "customerIDField" : null ,
            "enabledEndDateField" : null ,
            "enabledEndDateFieldSpecified" : false ,
            "enabledStartDateField" : null ,
            "enabledStartDateFieldSpecified" : false ,
            "firstNameField" : "Fred" ,
            "keyIDField" : null ,
            "lastNameField" : "Farber" ,
            "maximumNumberAllowedCombosField" : null ,
            "middleNameField" : "Forth" ,
            "nicknameExpirationDateField" : null ,
            "nicknameExpirationDateFieldSpecified" : false ,
            "nicknameField" : null ,
            "regionField" : null ,
            "serviceBranchField" : "North Bank Branch 6" ,
            "userIDField" : "FLM SHA Key 6"
        }
    } ,
    "userRecordField" :
    {
        "authorizationRoleField" : "FLM" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "canTypeField" :
        [
            24
        ] ,
        "creationDateField" : "\\Date(1363611989083)\\/" ,
        "customerIDField" : "North Bank" ,
        "deletionDateField" : null ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "Fred" ,
        "groupNameField" : "" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : true ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            106 ,
            184 ,
            218
        ]
    }
}

```

```
    "lastNameField" : "Farber" ,
    "lastUsedDateField" : "\Date(1408990355833)\" ,
    "maximumNumberAllowedCombosField" : "0" ,
    "middleNameField" : "Forth" ,
    "nicknameExpirationDateField" : null ,
    "nicknameField" : "" ,
    "numberCombosIssuedField" : "0" ,
    "numberTimeWindowsField" : "0" ,
    "regionField" : "KENTUCKY" ,
    "securityLevelField" : "1" ,
    "serviceBranchField" : "North Bank Branch 6" ,
    "totalNumberCombosIssuedField" : "12" ,
    "userComboField" : "0" ,
    "userIDField" : "FLM SHA Key 6" ,
    "window1DurationField" : "0" ,
    "window1StartField" : "0" ,
    "window2DurationField" : "0" ,
    "window2StartField" : "0" ,
    "window3DurationField" : "0" ,
    "window3StartField" : "0"
  }
}
```

3.4.5 Web Service User Transactions - User Change Bank Mode Default Combination

CenTran Programming Reference Manual

This transaction is used to update the database with a new bank mode default combination for a bank mode user based on the user name.

The new bank mode default combination is set only in the user record in the database. This new value for the user's bank mode default combination is used the next time the user is assigned to a Cencon Gen 2 lock. Existing locks that the user is already assigned to will have the old value, unless the user is deleted from and then assigned back to a lock.

Transaction information required:

- Dispatcher ID - If the ID field value is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.
- User ID (uniquely identifies a user record)
- User Combination - The new bank mode default combination for the user
- If Must Change Combo - Flag indicating if the user must change from the default combination to a new combination before being permitted to open the lock.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the entire updated user record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- User doesn't exist.
- Invalid Combination
- Not authorized due to region (region control active).
- Not authorized due to authorization role.

Example 1 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/change_bank_mode_combination
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/change_bank_mode_combination
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
  <UserID>Not A Real User Name</UserID>
  <UserCombo>123456</UserCombo>
  <IfMustChangeCombo>>false</IfMustChangeCombo>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
```

Output Transaction:

The transaction fails because the specified user does not exist.

```
<RESPONSE_USER_CHANGE_BANK_MODE_COMBINATION>
  <TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
    <UserID>Not A Real User Name</UserID>
    <UserCombo>123456</UserCombo>
    <IfMustChangeCombo>>false</IfMustChangeCombo>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_USER_NOT_FOUND</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>User ID not found in database: Not A Real User Name</Description>
  </ResultRecord>
</RESPONSE_USER_CHANGE_BANK_MODE_COMBINATION>
```

Example 2 - Success changing user bank mode default combination by User ID

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/change_bank_mode_combination
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/change_bank_mode_combination
```

Input Transaction:

```

<TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
  <UserID>Bank SHA Key 10004</UserID>
  <UserCombo>123456</UserCombo>
  <IfMustChangeCombo>>false</IfMustChangeCombo>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>

```

Output Transaction:

The transaction succeeds and the user bank mode default combination and flag if must change combination to open lock are updated.

```

<RESPONSE_USER_CHANGE_BANK_MODE_COMBINATION>
  <TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
    <UserID>Bank SHA Key 10004</UserID>
    <UserCombo>123456</UserCombo>
    <IfMustChangeCombo>>false</IfMustChangeCombo>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_CHANGE_BANK_MODE_COMBINATION>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>The user change bank mode default combination succeeded.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>Bank SHA Key 10004</UserID>
    <SecurityLevel>4</SecurityLevel>
    <KeyID>0000006AA8FF</KeyID>
    <CanType>18</CanType>
    <NumberCombosIssued>0</NumberCombosIssued>
    <CreationDate>2013-03-18T13:13:17.677Z</CreationDate>
    <DeletionDate/>
    <Nickname/>
    <NicknameExpirationDate/>
    <GroupName/>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Window1Start>0</Window1Start>
    <Window1Duration>0</Window1Duration>
    <IfWindow1Sun>>false</IfWindow1Sun>
    <IfWindow1Mon>>false</IfWindow1Mon>
    <IfWindow1Tue>>false</IfWindow1Tue>
    <IfWindow1Wed>>false</IfWindow1Wed>
    <IfWindow1Thu>>false</IfWindow1Thu>
    <IfWindow1Fri>>false</IfWindow1Fri>
    <IfWindow1Sat>>false</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>>false</IfWindow2Sun>
    <IfWindow2Mon>>false</IfWindow2Mon>
    <IfWindow2Tue>>false</IfWindow2Tue>
    <IfWindow2Wed>>false</IfWindow2Wed>
    <IfWindow2Thu>>false</IfWindow2Thu>
    <IfWindow2Fri>>false</IfWindow2Fri>
    <IfWindow2Sat>>false</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>>false</IfWindow3Sun>
    <IfWindow3Mon>>false</IfWindow3Mon>
    <IfWindow3Tue>>false</IfWindow3Tue>
    <IfWindow3Wed>>false</IfWindow3Wed>
    <IfWindow3Thu>>false</IfWindow3Thu>
    <IfWindow3Fri>>false</IfWindow3Fri>
    <IfWindow3Sat>>false</IfWindow3Sat>
    <Region>KENTUCKY</Region>
    <ServiceBranch>Service Branch 2</ServiceBranch>
    <FirstName/>
    <MiddleName/>
    <LastName/>
    <LastUsedDate>2013-03-18T13:13:17.677Z</LastUsedDate>
    <AuthorizationRole>Bank</AuthorizationRole>
    <BankUserID>10004</BankUserID>
    <TotalNumberCombosIssued>0</TotalNumberCombosIssued>
    <MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
    <EnabledStartDate/>
    <EnabledEndDate/>
    <BankBranchName>North Bank Branch</BankBranchName>
    <CustomerID>North Bank</CustomerID>
    <UserCombo>123456</UserCombo>
    <IfMustChangeCombo>>false</IfMustChangeCombo>
    <IfLegacyImport>>false</IfLegacyImport>
  </UserRecord>
</RESPONSE_USER_CHANGE_BANK_MODE_COMBINATION>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field

name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran user change bank mode combination transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example sets the default bank mode user combination for user ID **Bank SHA Key 10001**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/user/change_bank_mode_combination
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/user/change_bank_mode_combination
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "ifMustChangeComboField" : false ,
  "userComboField" : "265742" ,
  "userIDField" : "Bank SHA Key 10001"
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "The user change bank mode default combination succeeded."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tRANSACTION_USER_CHANGE_BANK_MODE_COMBINATIONField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "ifMustChangeComboField" : false ,
    "userComboField" : "265742" ,
    "userIDField" : "Bank SHA Key 10001"
  } ,
  "userRecordField" :
  {
    "authorizationRoleField" : "Bank" ,
    "bankBranchNameField" : "North Bank Branch" ,
    "bankUserIDField" : "10001" ,
    "canTypeField" :
    [
      24
    ] ,
    "creationDateField" : "\\Date(1363612264540)\/" ,
    "customerIDField" : "North Bank" ,
    "deletionDateField" : null ,
    "enabledEndDateField" : null ,
    "enabledStartDateField" : null ,
    "firstNameField" : "" ,
    "groupNameField" : "" ,
    "ifLegacyImportField" : false ,
    "ifMustChangeComboField" : false ,
    "ifWindow1FriField" : false ,
    "ifWindow1MonField" : false ,
    "ifWindow1SatField" : false ,
    "ifWindow1SunField" : false ,
    "ifWindow1ThuField" : false ,
    "ifWindow1TueField" : false ,
    "ifWindow1WedField" : false ,
    "ifWindow2FriField" : false ,
  }
}
```

```

    "ifWindow2MonField" : false ,
    "ifWindow2SatField" : false ,
    "ifWindow2SunField" : false ,
    "ifWindow2ThuField" : false ,
    "ifWindow2TueField" : false ,
    "ifWindow2WedField" : false ,
    "ifWindow3FriField" : false ,
    "ifWindow3MonField" : false ,
    "ifWindow3SatField" : false ,
    "ifWindow3SunField" : false ,
    "ifWindow3ThuField" : false ,
    "ifWindow3TueField" : false ,
    "ifWindow3WedField" : false ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        58 ,
        248
    ] ,
    "lastNameField" : "" ,
    "lastUsedDateField" : "\Date(1363612264540)\" ,
    "maximumNumberAllowedCombosField" : "0" ,
    "middleNameField" : "" ,
    "nicknameExpirationDateField" : null ,
    "nicknameField" : "" ,
    "numberCombosIssuedField" : "0" ,
    "numberTimeWindowsField" : "0" ,
    "regionField" : "KENTUCKY" ,
    "securityLevelField" : "4" ,
    "serviceBranchField" : "Service Branch 2" ,
    "totalNumberCombosIssuedField" : "0" ,
    "userComboField" : "265742" ,
    "userIDField" : "Bank SHA Key 10001" ,
    "window1DurationField" : "0" ,
    "window1StartField" : "0" ,
    "window2DurationField" : "0" ,
    "window2StartField" : "0" ,
    "window3DurationField" : "0" ,
    "window3StartField" : "0"
}

```

3.4.6 Web Service User Transactions - Add User Key

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This transaction is used to add a user to the Cencon database and initialize a user key using the specified Cencon keybox.

Note

CenTran is supporting only lock user key types for add key, edit key, and delete transactions. CenTran will not add, edit, or delete Cencon / CenTran logon key types. This is for security reasons. CenTran may be operating under a single token method of authorization (I.E. user name/password, etc). The Cencon / CenTran logon key types represent a dual token method of authorization.

Transaction information required:

- **IP Address** - Specifies the keybox to connect to from CenTran to read the key from.
- **Communications ID** - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- **Communications Method** - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

User information required:

- **UserID** - This is the unique User ID identifying the user in the Cencon database.
- **AuthorizationRole** - This is the type of user being added. This can be one of the following values:
 - **FLM** - Indicates the user is a lock user key for use with the Cencon lock FLM mode.
 - **Route** - Indicates the user is a lock user key for use with the Cencon lock Route mode.
 - **Bank** - Indicates the user is a lock user key for use with the Cencon lock Bank mode.
- **NumberTimeWindows** - This is the number of time access windows to be defined for the user, both in the Cencon database and in the use key. You can define 0 to 3 time windows. If 0, then no time windows are defined to restrict the user access times and the user can open the lock at any time. If one or more time access windows are defined, then the user access to locks is restricted to those time access windows.
- **Window1Start / Window2Start / Window3Start** - These are the start times during the day that a time access window is starting. These are defined as intervals of 6 minutes starting from midnight. This value can be 0 to 240 (6 minute intervals for 1440 minutes in a day). For example, 8 A.M. would be the value 80. These are optional if the time window is not being defined.
- **Window1Duration / Window2Duration / Window3Duration** - These are the duration that a time access window lasts. These are defined as intervals of 6 seconds starting from midnight. This value can be 0 to 240 (6 minute intervals for 1440 minutes in a day). For example, 5 hours would be the value 50. These are optional if the time window is not being defined.
- **IfWindow1Sun / IfWindow1Mon / IfWindow1Tue / IfWindow1Wed / IfWindow1Thu / IfWindow1Fri / IfWindow1Sat** - These are the flags for what days of the week that the first time window would be applied. These can be true or false. These are optional if the time window is not being defined.
- **IfWindow2Sun / IfWindow2Mon / IfWindow2Tue / IfWindow2Wed / IfWindow2Thu / IfWindow2Fri / IfWindow2Sat** - These are the flags for what days of the week that the first time window would be applied. These can be true or false. These are optional if the time window is not being defined.
- **IfWindow3Sun / IfWindow3Mon / IfWindow3Tue / IfWindow3Wed / IfWindow3Thu / IfWindow3Fri / IfWindow3Sat** - These are the flags for what days of the week that the first time window would be applied. These can be true or false. These are optional if the time window is not being defined.
- **Region** - This is the Cencon database region that the user is assigned to. If region control is set to be active in your Cencon database, then the user is restricted to being dispatched to locks with the same assigned region as the user. If region control is set to be active in your Cencon database, then you are required to assign a region to the user. If you attempt to assign a region that does not exist, then you will receive an error when trying to add the user.
- **ServiceBranch** - This is a descriptive field about the user for use with your business procedures as needed. It is optional.
- **CustomerID** - This is a descriptive field about the user for the assigned Customer ID. If this value is being set, it must be a Customer ID that exists in your Cencon database. It is optional.
- **FirstName** - This is a descriptive field about the user for use with your business procedures as needed. It is optional.
- **MiddleName** - This is a descriptive field about the user for use with your business procedures as needed. It is optional.
- **LastName** - This is a descriptive field about the user for use with your business procedures as needed. It is optional.
- **Nickname** - This is a descriptive field about the user for use with your business procedures as needed. It is optional.
- **NicknameExpirationDate** - This is an expiration date for the nickname for use with your business procedures as needed. It is optional.
- **MaximumNumberAllowedCombos** - This is the maximum number of allowed combinations that the user can be dispatched to them simultaneously. This applies to FLM and Route lock users. Depending on your settings with the Cencon database, you can configure how many times an FLM or Route lock user can be dispatched. This sets a further restriction on the number of simultaneous dispatches on this specific user. This field does not apply to Bank mode lock users. A value of 0 sets that no restriction is being applied.
- **EnabledStartDate** - This is the starting date that the user can be assigned to locks or dispatched. It is optional.
- **EnabledEndDate** - This is the ending date that the user can be assigned to locks or dispatched. It is optional. This value is written to the user key as well as to the Cencon database.
- **BankBranchName** - This is the bank branch name that the user is assigned to. This applies to Bank mode users only. If you are adding a Bank mode user, then you must specify a Bank Branch Name. The Bank Branch Name must be one that exists in the Cencon database, or you will receive an error when adding the user key.
- **BankUserID** - This is the Bank Branch User ID that the user is assigned to. This applies to Bank mode users only. The combination of Bank Branch Name and Bank User ID must be unique. If another Bank mode user already has the same values you are trying to use, you will receive an error when adding the user key. The Bank Branch User ID is written to the user key. It has a limited range of valid values:
 - Cencon Gen 1 locks / DS1427 Can Type Bank User Lock Keys: 01 - 32
 - Cencon Gen 2 locks / DS1963S Can Type Bank User Lock Keys: 01 - 100
- **UserCombo** - This is the default user combination that a Bank mode lock user key is assigned with. This applies to Bank mode users only. This is written to Bank mode lock user keys that are using DS1963 key model Can Types. It is not written to older DS1427 key model Can Types. This value is valid when used with a DS1963S key on a Cencon Gen 2 lock.

- **IfMustChangeCombo** - This flag specifies if a Bank mode lock user key must change their default combination at the lock before being allowed to open the lock. This is written to Bank mode lock user keys that are using DS1963 key model Can Types. It is not written to older DS1427 key model Can Types. This value is valid when used with a DS1963S key on a Cencon Gen 2 lock.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the created user record..

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- User ID already exists in the Cencon database.
- User Key is already in use in the Cencon database.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Example 1 - Successful add of FLM user.

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/add_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/add_key
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_ADD_USER_KEY>
  <AddUserKeyRecord>
    <UserID>F13</UserID>
    <AuthorizationRole>FLM</AuthorizationRole>
    <NumberTimeWindows>2</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>40</Window1Duration>
    <IfWindow1Mon>true</IfWindow1Mon>
    <IfWindow1Tue>true</IfWindow1Tue>
    <IfWindow1Wed>true</IfWindow1Wed>
    <IfWindow1Thu>true</IfWindow1Thu>
    <IfWindow1Fri>true</IfWindow1Fri>
    <Window2Start>120</Window2Start>
    <Window2Duration>40</Window2Duration>
    <IfWindow2Sun>true</IfWindow2Sun>
    <IfWindow2Sat>true</IfWindow2Sat>
    <Region>KENTUCKY</Region>
    <ServiceBranch>North Bank Branch 22</ServiceBranch>
    <CustomerID>North Bank</CustomerID>
    <FirstName>Janet</FirstName>
    <MiddleName>Juliet</MiddleName>
    <LastName>Justice</LastName>
    <NickName>JJJ</NickName>
    <NicknameExpirationDate>2013-04-12T00:00:00</NicknameExpirationDate>
    <MaximumNumberAllowedCombos>10</MaximumNumberAllowedCombos>
    <EnabledStartDate>2012-04-12T00:00:00</EnabledStartDate>
    <EnabledEndDate>2014-02-01T00:00:00</EnabledEndDate>
  </AddUserKeyRecord>
  <IPAddress>10.108.6.102:53003</IPAddress>
  <CommunicationsID>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID>
</TRANSACTION_ADD_USER_KEY>
```

Example Output Transaction:

```
<RESPONSE_ADD_USER_KEY>
  <TRANSACTION_ADD_USER_KEY>
    <AddUserKeyRecord>
      <UserID>F13</UserID>
      <AuthorizationRole>FLM</AuthorizationRole>
      <NumberTimeWindows>2</NumberTimeWindows>
      <Window1Start>80</Window1Start>
      <Window1Duration>40</Window1Duration>
      <IfWindow1Mon>true</IfWindow1Mon>
      <IfWindow1Tue>true</IfWindow1Tue>
      <IfWindow1Wed>true</IfWindow1Wed>
      <IfWindow1Thu>true</IfWindow1Thu>
      <IfWindow1Fri>true</IfWindow1Fri>
      <Window2Start>120</Window2Start>
      <Window2Duration>40</Window2Duration>
      <IfWindow2Sun>true</IfWindow2Sun>
      <IfWindow2Sat>true</IfWindow2Sat>
      <Region>KENTUCKY</Region>
      <ServiceBranch>North Bank Branch 22</ServiceBranch>
      <CustomerID>North Bank</CustomerID>
      <FirstName>Janet</FirstName>
      <MiddleName>Juliet</MiddleName>
      <LastName>Justice</LastName>
```



```

        <Nickname>JJJ</Nickname>
        <NicknameExpirationDate>2013-04-12T00:00:00</NicknameExpirationDate>
        <MaximumNumberAllowedCombos>10</MaximumNumberAllowedCombos>
        <EnabledStartDate>2012-04-12T00:00:00</EnabledStartDate>
        <EnabledEndDate>2014-02-01T00:00:00</EnabledEndDate>
    </AddUserKeyRecord>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_USER_KEY>
<ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>The add user key succeeded.</Description>
</ResultRecord>
<UserRecord>
    <UserID>F13</UserID>
    <SecurityLevel>1</SecurityLevel>
    <KeyID>00000045F7B2</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>0</NumberCombosIssued>
    <CreationDate>2012-08-28T15:48:53.882Z</CreationDate>
    <DeletionDate/>
    <Nickname>JJJ</Nickname>
    <NicknameExpirationDate>2013-04-12T00:00:00Z</NicknameExpirationDate>
    <GroupName/>
    <NumberTimeWindows>2</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>40</Window1Duration>
    <IfWindow1Sun>>false</IfWindow1Sun>
    <IfWindow1Mon>>true</IfWindow1Mon>
    <IfWindow1Tue>>true</IfWindow1Tue>
    <IfWindow1Wed>>true</IfWindow1Wed>
    <IfWindow1Thu>>true</IfWindow1Thu>
    <IfWindow1Fri>>true</IfWindow1Fri>
    <IfWindow1Sat>>false</IfWindow1Sat>
    <Window2Start>120</Window2Start>
    <Window2Duration>40</Window2Duration>
    <IfWindow2Sun>>true</IfWindow2Sun>
    <IfWindow2Mon>>false</IfWindow2Mon>
    <IfWindow2Tue>>false</IfWindow2Tue>
    <IfWindow2Wed>>false</IfWindow2Wed>
    <IfWindow2Thu>>false</IfWindow2Thu>
    <IfWindow2Fri>>false</IfWindow2Fri>
    <IfWindow2Sat>>true</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>>false</IfWindow3Sun>
    <IfWindow3Mon>>false</IfWindow3Mon>
    <IfWindow3Tue>>false</IfWindow3Tue>
    <IfWindow3Wed>>false</IfWindow3Wed>
    <IfWindow3Thu>>false</IfWindow3Thu>
    <IfWindow3Fri>>false</IfWindow3Fri>
    <IfWindow3Sat>>false</IfWindow3Sat>
    <Region>KENTUCKY</Region>
    <ServiceBranch>North Bank Branch 22</ServiceBranch>
    <FirstName>Janet</FirstName>
    <MiddleName>Juliet</MiddleName>
    <LastName>Justice</LastName>
    <LastUsedDate>2012-08-28T15:48:53.882Z</LastUsedDate>
    <AuthorizationRole>FLM</AuthorizationRole>
    <BankUserID>0</BankUserID>
    <TotalNumberCombosIssued>0</TotalNumberCombosIssued>
    <MaximumNumberAllowedCombos>10</MaximumNumberAllowedCombos>
    <EnabledStartDate>2012-04-12T00:00:00Z</EnabledStartDate>
    <EnabledEndDate>2014-02-01T00:00:00Z</EnabledEndDate>
    <BankBranchName/>
    <CustomerID>North Bank</CustomerID>
    <UserCombo>0</UserCombo>
    <IfMustChangeCombo>true</IfMustChangeCombo>
    <IfLegacyImport>>false</IfLegacyImport>
</UserRecord>
</RESPONSE_ADD_USER_KEY>

```

Example 2 - Failure adding user key due to key in Cencon Keybox key reader slot already exists in Cencon database.

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/add_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/add_key
```

Input Transaction: (HTTP Body)

```

<TRANSACTION_ADD_USER_KEY>
  <AddUserKeyRecord>
    <UserID>ANewRouteUser</UserID>
    <AuthorizationRole>Route</AuthorizationRole>

```

```

    <NumberTimeWindows>0</NumberTimeWindows>
    <Region>KENTUCKY</Region>
  </AddUserKeyRecord>
  <IPAddress>10.108.6.102:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_ADD_USER_KEY>

```

Output Transaction:

In this example, user rzjoey does not exist in the database.

```

<RESPONSE_ADD_USER_KEY>
  <TRANSACTION_ADD_USER_KEY>
    <AddUserKeyRecord>
      <UserID>ANewRouteUser</UserID>
      <AuthorizationRole>Route</AuthorizationRole>
      <NumberTimeWindows>0</NumberTimeWindows>
      <Region>KENTUCKY</Region>
    </AddUserKeyRecord>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_USER_KEY>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FAILED_ADD_USER_KEY_ALREADY_EXISTS</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to add user key. The user key in the key reader already exists in
the database.</Description>
  </ResultRecord>
</RESPONSE_ADD_USER_KEY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran add user key transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the IPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

Example

This example adds a new Route mode user key though a remote keybox agent persistent network connection:
KeyBoxSerialNumber:01E16499140008B

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/user/add_key
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CenTranServiceJSON/rest/user/add_key
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "addUserKeyRecordField" :
  {
    "authorizationRoleField" : "Route" ,
    "bankBranchNameField" : null ,
    "bankUserIDField" : null ,
    "customerIDField" : "North Bank" ,
    "enabledEndDateField" : null ,
    "enabledEndDateFieldSpecified" : false ,
    "enabledStartDateField" : null ,
    "enabledStartDateFieldSpecified" : false ,
    "firstNameField" : null ,
    "ifMustChangeComboField" : false ,
    "ifMustChangeComboFieldSpecified" : false ,
    "ifWindow1FriField" : false ,
    "ifWindow1FriFieldSpecified" : false ,
    "ifWindow1MonField" : false ,
    "ifWindow1MonFieldSpecified" : false ,
    "ifWindow1SatField" : false ,
    "ifWindow1SatFieldSpecified" : false ,
    "ifWindow1SunField" : false ,
    "ifWindow1SunFieldSpecified" : false ,
    "ifWindow1ThuField" : false ,
    "ifWindow1ThuFieldSpecified" : false ,
    "ifWindow1TueField" : false ,
    "ifWindow1TueFieldSpecified" : false ,
    "ifWindow1WedField" : false ,
    "ifWindow1WedFieldSpecified" : false ,
    "ifWindow2FriField" : false ,
    "ifWindow2FriFieldSpecified" : false ,
    "ifWindow2MonField" : false ,
    "ifWindow2MonFieldSpecified" : false ,
    "ifWindow2SatField" : false ,
    "ifWindow2SatFieldSpecified" : false ,
    "ifWindow2SunField" : false ,
    "ifWindow2SunFieldSpecified" : false ,
    "ifWindow2ThuField" : false ,
    "ifWindow2ThuFieldSpecified" : false ,
    "ifWindow2TueField" : false ,
    "ifWindow2TueFieldSpecified" : false ,
    "ifWindow2WedField" : false ,
    "ifWindow2WedFieldSpecified" : false ,
    "ifWindow3FriField" : false ,
    "ifWindow3FriFieldSpecified" : false ,
    "ifWindow3MonField" : false ,
    "ifWindow3MonFieldSpecified" : false ,
    "ifWindow3SatField" : false ,
    "ifWindow3SatFieldSpecified" : false ,
    "ifWindow3SunField" : false ,
    "ifWindow3SunFieldSpecified" : false ,
    "ifWindow3ThuField" : false ,
    "ifWindow3ThuFieldSpecified" : false ,
    "ifWindow3TueField" : false ,
    "ifWindow3TueFieldSpecified" : false ,
    "ifWindow3WedField" : false ,
    "ifWindow3WedFieldSpecified" : false ,
    "lastNameField" : null ,
    "maximumNumberAllowedCombosField" : null ,
    "middleNameField" : null ,
    "nicknameExpirationDateField" : null ,
    "nicknameExpirationDateFieldSpecified" : false ,
    "nicknameField" : null ,
    "numberTimeWindowsField" : null ,
    "regionField" : "KENTUCKY" ,
    "serviceBranchField" : null ,
    "userComboField" : null ,
    "userIDField" : "Route SHA Key 5" ,
    "window1DurationField" : null ,
    "window1StartField" : null ,
    "window2DurationField" : null ,
    "window2StartField" : null ,
    "window3DurationField" : null ,
    "window3StartField" : null
  } ,
  "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "ipAddressField" : null
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "The add user key succeeded."
    ]
  }
}
```

```

    ],
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_ADD_USER_KEYField" :
{
    "addUserKeyRecordField" :
    {
        "authorizationRoleField" : "Route" ,
        "bankBranchNameField" : null ,
        "bankUserIDField" : null ,
        "customerIDField" : "North Bank" ,
        "enabledEndDateField" : null ,
        "enabledEndDateFieldSpecified" : false ,
        "enabledStartDateField" : null ,
        "enabledStartDateFieldSpecified" : false ,
        "firstNameField" : null ,
        "ifMustChangeComboField" : false ,
        "ifMustChangeComboFieldSpecified" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1FriFieldSpecified" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1MonFieldSpecified" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SatFieldSpecified" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1SunFieldSpecified" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1ThuFieldSpecified" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1TueFieldSpecified" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow1WedFieldSpecified" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2FriFieldSpecified" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2MonFieldSpecified" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SatFieldSpecified" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2SunFieldSpecified" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2ThuFieldSpecified" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2TueFieldSpecified" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow2WedFieldSpecified" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3FriFieldSpecified" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3MonFieldSpecified" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SatFieldSpecified" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3SunFieldSpecified" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3ThuFieldSpecified" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3TueFieldSpecified" : false ,
        "ifWindow3WedField" : false ,
        "ifWindow3WedFieldSpecified" : false ,
        "lastNameField" : null ,
        "maximumNumberAllowedCombosField" : null ,
        "middleNameField" : null ,
        "nicknameExpirationDateField" : null ,
        "nicknameExpirationDateFieldSpecified" : false ,
        "nicknameField" : null ,
        "numberTimeWindowsField" : null ,
        "regionField" : "KENTUCKY" ,
        "serviceBranchField" : null ,
        "userComboField" : null ,
        "userIDField" : "Route SHA Key 5" ,
        "window1DurationField" : null ,
        "window1StartField" : null ,
        "window2DurationField" : null ,
        "window2StartField" : null ,
        "window3DurationField" : null ,
        "window3StartField" : null
    } ,
    "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "iPAddressField" : null
} ,
"userRecordField" :
{
    "authorizationRoleField" : "Route" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,

```

```

"canTypeField" :
[
    24
],
"creationDateField" : "\Date(1410295859016)\" ,
"customerIDField" : "North Bank" ,
"deletionDateField" : null ,
"enabledEndDateField" : null ,
"enabledStartDateField" : null ,
"firstNameField" : "" ,
"groupNameField" : "" ,
"ifLegacyImportField" : false ,
"ifMustChangeComboField" : true ,
"ifWindow1FriField" : false ,
"ifWindow1MonField" : false ,
"ifWindow1SatField" : false ,
"ifWindow1SunField" : false ,
"ifWindow1ThuField" : false ,
"ifWindow1TueField" : false ,
"ifWindow1WedField" : false ,
"ifWindow2FriField" : false ,
"ifWindow2MonField" : false ,
"ifWindow2SatField" : false ,
"ifWindow2SunField" : false ,
"ifWindow2ThuField" : false ,
"ifWindow2TueField" : false ,
"ifWindow2WedField" : false ,
"ifWindow3FriField" : false ,
"ifWindow3MonField" : false ,
"ifWindow3SatField" : false ,
"ifWindow3SunField" : false ,
"ifWindow3ThuField" : false ,
"ifWindow3TueField" : false ,
"ifWindow3WedField" : false ,
"keyIDField" :
[
    0 ,
    0 ,
    0 ,
    106 ,
    183 ,
    11
],
"lastNameField" : "" ,
"lastUsedDateField" : "\Date(1410295859016)\" ,
"maximumNumberAllowedCombosField" : "0" ,
"middleNameField" : "" ,
"nicknameExpirationDateField" : null ,
"nicknameField" : "" ,
"numberCombosIssuedField" : "0" ,
"numberTimeWindowsField" : "0" ,
"regionField" : "KENTUCKY" ,
"securityLevelField" : "2" ,
"serviceBranchField" : "" ,
"totalNumberCombosIssuedField" : "0" ,
"userComboField" : "0" ,
"userIDField" : "Route SHA Key 5" ,
>window1DurationField" : "0" ,
>window1StartField" : "0" ,
>window2DurationField" : "0" ,
>window2StartField" : "0" ,
>window3DurationField" : "0" ,
>window3StartField" : "0"
}
}

```

3.4.7 Web Service User Transactions - Edit User Key

CenTran Programming Reference Manual

This transaction updates time access data for a user key in the specified Cencon Keybox reader slot.

Note

CenTran is supporting only lock user key types for add key, edit key, and delete transactions. CenTran will not add, edit, or delete Cencon / CenTran logon key types. This is for security reasons. CenTran may be operating under a single token method of authorization (I.E. user name/password, etc). The Cencon / CenTran logon key types represent a dual token method of authorization.

Transaction information required:

- **IP Address** - Specifies the keybox to connect to from CenTran to update the key to.
- **Communications ID** - Specifies an alternate identification of a keybox to connect to from CenTran to update the key to. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- **Communications Method** - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

User information required:

- **UserID** - This is the unique User ID identifying the user in the Cencon database.
- **NumberTimeWindows** - This is the number of time access windows to be defined for the user, both in the Cencon database and in the use key. You can define 0 to 3 time windows. If 0, then no time windows are defined to restrict the user access times and the user can open the lock at any time. If one or more time access windows are defined, then the user access to locks is restricted to those time access windows.
- **Window1Start / Window2Start / Window3Start** - These are the start times during the day that a time access window is starting. These are defined as intervals of 6 seconds starting from midnight. This value can be 0 to 240 (6 minute intervals for 1440 minutes in a day). For example, 8 A.M. would be the value 80. These are optional if the time window is not being defined.
- **Window1Duration / Window2Duration / Window3Duration** - These are the duration that a time access window lasts. These are defined as intervals of 6 seconds starting from midnight. This value can be 0 to 240 (6 minute intervals for 1440 minutes in a day). For example, 5 hours would be the value 50. These are optional if the time window is not being defined.
- **IfWindow1Sun / IfWindow1Mon / IfWindow1Tue / IfWindow1Wed / IfWindow1Thu / IfWindow1Fri / IfWindow1Sat** - These are the flags for what days of the week that the first time window would be applied. These can be true or false. These are optional if the time window is not being defined.
- **IfWindow2Sun / IfWindow2Mon / IfWindow2Tue / IfWindow2Wed / IfWindow2Thu / IfWindow2Fri / IfWindow2Sat** - These are the flags for what days of the week that the first time window would be applied. These can be true or false. These are optional if the time window is not being defined.
- **IfWindow3Sun / IfWindow3Mon / IfWindow3Tue / IfWindow3Wed / IfWindow3Thu / IfWindow3Fri / IfWindow3Sat** - These are the flags for what days of the week that the first time window would be applied. These can be true or false. These are optional if the time window is not being defined.
- **EnabledStartDate** - This is the starting date that the user can be assigned to locks or dispatched. It is optional.
- **EnabledEndDate** - This is the ending date that the user can be assigned to locks or dispatched. It is optional. This value is written to the user key as well as to the Cencon database.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the updated user record..

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- User ID does not exist in the Cencon database.
- User Key in the Cencon keybox does not match the specified User ID.
- User Key is not present in the Cencon keybox key reader slot.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/update_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/update_key
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_UPDATE_USER_KEY>
  <UpdateUserKeyRecord>
    <UserID>F13</UserID>
    <NumberTimeWindows>1</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>120</Window1Duration>
```

```

<IfWindow1Mon>true</IfWindow1Mon>
<IfWindow1Tue>true</IfWindow1Tue>
<IfWindow1Wed>true</IfWindow1Wed>
<IfWindow1Thu>true</IfWindow1Thu>
<IfWindow1Fri>true</IfWindow1Fri>
<EnabledStartDate>2010-04-12T00:00:00</EnabledStartDate>
<EnabledEndDate>2013-04-12T00:00:00</EnabledEndDate>
</UpdateUserKeyRecord>
<IPAddress>10.108.6.102:53003</IPAddress>
<CommunicationsID/>
<CommunicationsMethod>Tcp</CommunicationsMethod>
<DispatcherID/>
</TRANSACTION_UPDATE_USER_KEY>

```

Example Output Transaction:

```

<RESPONSE_UPDATE_USER_KEY>
  <TRANSACTION_UPDATE_USER_KEY>
    <UpdateUserKeyRecord>
      <UserID>F13</UserID>
      <NumberTimeWindows>1</NumberTimeWindows>
      <Window1Start>80</Window1Start>
      <Window1Duration>120</Window1Duration>
      <IfWindow1Mon>true</IfWindow1Mon>
      <IfWindow1Tue>true</IfWindow1Tue>
      <IfWindow1Wed>true</IfWindow1Wed>
      <IfWindow1Thu>true</IfWindow1Thu>
      <IfWindow1Fri>true</IfWindow1Fri>
      <EnabledStartDate>2010-04-12T00:00:00</EnabledStartDate>
      <EnabledEndDate>2013-04-12T00:00:00</EnabledEndDate>
    </UpdateUserKeyRecord>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_USER_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>The user key update succeeded.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>F13</UserID>
    <SecurityLevel>1</SecurityLevel>
    <KeyID>00000045F7B2</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>0</NumberCombosIssued>
    <CreationDate>2012-08-28T15:48:53.883Z</CreationDate>
    <DeletionDate/>
    <Nickname>JJJ</Nickname>
    <NicknameExpirationDate>2013-04-12T00:00:00Z</NicknameExpirationDate>
    <GroupName/>
    <NumberTimeWindows>1</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>120</Window1Duration>
    <IfWindow1Sun>false</IfWindow1Sun>
    <IfWindow1Mon>true</IfWindow1Mon>
    <IfWindow1Tue>true</IfWindow1Tue>
    <IfWindow1Wed>true</IfWindow1Wed>
    <IfWindow1Thu>true</IfWindow1Thu>
    <IfWindow1Fri>true</IfWindow1Fri>
    <IfWindow1Sat>false</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>false</IfWindow2Sun>
    <IfWindow2Mon>false</IfWindow2Mon>
    <IfWindow2Tue>false</IfWindow2Tue>
    <IfWindow2Wed>false</IfWindow2Wed>
    <IfWindow2Thu>false</IfWindow2Thu>
    <IfWindow2Fri>false</IfWindow2Fri>
    <IfWindow2Sat>false</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>false</IfWindow3Sun>
    <IfWindow3Mon>false</IfWindow3Mon>
    <IfWindow3Tue>false</IfWindow3Tue>
    <IfWindow3Wed>false</IfWindow3Wed>
    <IfWindow3Thu>false</IfWindow3Thu>
    <IfWindow3Fri>false</IfWindow3Fri>
    <IfWindow3Sat>false</IfWindow3Sat>
    <Region>KENTUCKY</Region>
    <ServiceBranch>North Bank Branch 22</ServiceBranch>
    <FirstName>Janet</FirstName>
    <MiddleName>Juliet</MiddleName>
    <LastName>Justice</LastName>
    <LastUsedDate>2012-08-28T15:48:53.883Z</LastUsedDate>
    <AuthorizationRole>FLM</AuthorizationRole>
    <BankUserID>0</BankUserID>
    <TotalNumberCombosIssued>0</TotalNumberCombosIssued>
    <MaximumNumberAllowedCombos>10</MaximumNumberAllowedCombos>
    <EnabledStartDate>2010-04-12T00:00:00Z</EnabledStartDate>
    <EnabledEndDate>2013-04-12T00:00:00Z</EnabledEndDate>
    <BankBranchName/>
    <CustomerID>North Bank</CustomerID>
    <UserCombo>0</UserCombo>
  </UserRecord>
</RESPONSE_UPDATE_USER_KEY>

```



```

<IfMustChangeCombo>true</IfMustChangeCombo>
<IfLegacyImport>false</IfLegacyImport>
</UserRecord>
</RESPONSE_UPDATE_USER_KEY>

```

Example 2 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/update_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/update_key
```

Input Transaction: (HTTP Body)

```

<TRANSACTION_UPDATE_USER_KEY>
  <UpdateUserKeyRecord>
    <UserID>BU01</UserID>
    <NumberTimeWindows>0</NumberTimeWindows>
  </UpdateUserKeyRecord>
  <IPAddress>10.108.6.102:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_UPDATE_USER_KEY>

```

Output Transaction:

In this example, user BU01 does not match the key in the key reader.

```

<RESPONSE_UPDATE_USER_KEY>
  <TRANSACTION_UPDATE_USER_KEY>
    <UpdateUserKeyRecord>
      <UserID>BU01</UserID>
      <NumberTimeWindows>0</NumberTimeWindows>
    </UpdateUserKeyRecord>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_USER_KEY>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_UPDATE_USER_KEY_WRONG_KEY_IN_READER</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Key in key reader does not match the user: BU01</Description>
  </ResultRecord>
</RESPONSE_UPDATE_USER_KEY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran edit user key transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the ipAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.

1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

Example

This example edits the first time window for an existing Route mode user key **Route SHA Key 5** though a remote keybox agent persistent network connection: **KeyBoxSerialNumber:01E164991400008B**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/user/update_key
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/user/update_key
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "ipAddressField" : null ,
  "updateUserKeyRecordField" :
  {
    "enabledEndDateField" : null ,
    "enabledEndDateFieldSpecified" : false ,
    "enabledStartDateField" : null ,
    "enabledStartDateFieldSpecified" : false ,
    "ifWindow1FriField" : true ,
    "ifWindow1FriFieldSpecified" : true ,
    "ifWindow1MonField" : true ,
    "ifWindow1MonFieldSpecified" : true ,
    "ifWindow1SatField" : false ,
    "ifWindow1SatFieldSpecified" : true ,
    "ifWindow1SunField" : false ,
    "ifWindow1SunFieldSpecified" : true ,
    "ifWindow1ThuField" : true ,
    "ifWindow1ThuFieldSpecified" : true ,
    "ifWindow1TueField" : true ,
    "ifWindow1TueFieldSpecified" : true ,
    "ifWindow1WedField" : true ,
    "ifWindow1WedFieldSpecified" : true ,
    "ifWindow2FriField" : false ,
    "ifWindow2FriFieldSpecified" : false ,
    "ifWindow2MonField" : false ,
    "ifWindow2MonFieldSpecified" : false ,
    "ifWindow2SatField" : false ,
    "ifWindow2SatFieldSpecified" : false ,
    "ifWindow2SunField" : false ,
    "ifWindow2SunFieldSpecified" : false ,
    "ifWindow2ThuField" : false ,
    "ifWindow2ThuFieldSpecified" : false ,
    "ifWindow2TueField" : false ,
    "ifWindow2TueFieldSpecified" : false ,
    "ifWindow2WedField" : false ,
    "ifWindow2WedFieldSpecified" : false ,
    "ifWindow3FriField" : false ,
    "ifWindow3FriFieldSpecified" : false ,
    "ifWindow3MonField" : false ,
    "ifWindow3MonFieldSpecified" : false ,
    "ifWindow3SatField" : false ,
    "ifWindow3SatFieldSpecified" : false ,
    "ifWindow3SunField" : false ,
    "ifWindow3SunFieldSpecified" : false ,
    "ifWindow3ThuField" : false ,
    "ifWindow3ThuFieldSpecified" : false ,
    "ifWindow3TueField" : false ,
    "ifWindow3TueFieldSpecified" : false ,
    "ifWindow3WedField" : false ,
    "ifWindow3WedFieldSpecified" : false ,
    "numberTimeWindowsField" : "1" ,
    "userIDField" : "Route SHA Key 5" ,
    "window1DurationField" : "90" ,
    "window1StartField" : "70" ,
    "window2DurationField" : null ,
    "window2StartField" : null ,
    "window3DurationField" : null ,
    "window3StartField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
```

```

{
    "descriptionField" :
    [
        "The user key update succeeded."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_UPDATE_USER_KEYField" :
{
    "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "iPAddressField" : null ,
    "updateUserKeyRecordField" :
    {
        "enabledEndDateField" : null ,
        "enabledEndDateFieldSpecified" : false ,
        "enabledStartDateField" : null ,
        "enabledStartDateFieldSpecified" : false ,
        "ifWindow1FriField" : true ,
        "ifWindow1FriFieldSpecified" : true ,
        "ifWindow1MonField" : true ,
        "ifWindow1MonFieldSpecified" : true ,
        "ifWindow1SatField" : false ,
        "ifWindow1SatFieldSpecified" : true ,
        "ifWindow1SunField" : false ,
        "ifWindow1SunFieldSpecified" : true ,
        "ifWindow1ThuField" : true ,
        "ifWindow1ThuFieldSpecified" : true ,
        "ifWindow1TueField" : true ,
        "ifWindow1TueFieldSpecified" : true ,
        "ifWindow1WedField" : true ,
        "ifWindow1WedFieldSpecified" : true ,
        "ifWindow2FriField" : false ,
        "ifWindow2FriFieldSpecified" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2MonFieldSpecified" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SatFieldSpecified" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2SunFieldSpecified" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2ThuFieldSpecified" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2TueFieldSpecified" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow2WedFieldSpecified" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3FriFieldSpecified" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3MonFieldSpecified" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SatFieldSpecified" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3SunFieldSpecified" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3ThuFieldSpecified" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3TueFieldSpecified" : false ,
        "ifWindow3WedField" : false ,
        "ifWindow3WedFieldSpecified" : false ,
        "numberTimeWindowsField" : "1" ,
        "userIDField" : "Route SHA Key 5" ,
        "window1DurationField" : "90" ,
        "window1StartField" : "70" ,
        "window2DurationField" : null ,
        "window2StartField" : null ,
        "window3DurationField" : null ,
        "window3StartField" : null
    }
} ,
"userRecordField" :
{
    "authorizationRoleField" : "Route" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "canTypeField" :
    [
        24
    ] ,
    "creationDateField" : "\\Date(1410295859017)\" ,
    "customerIDField" : "North Bank" ,
    "deletionDateField" : null ,
    "enabledEndDateField" : null ,
    "enabledStartDateField" : null ,
    "firstNameField" : "" ,
    "groupNameField" : "" ,
    "ifLegacyImportField" : false ,

```

```

    "ifMustChangeComboField" : true ,
    "ifWindow1FriField" : true ,
    "ifWindow1MonField" : true ,
    "ifWindow1SatField" : false ,
    "ifWindow1SunField" : false ,
    "ifWindow1ThuField" : true ,
    "ifWindow1TueField" : true ,
    "ifWindow1WedField" : true ,
    "ifWindow2FriField" : false ,
    "ifWindow2MonField" : false ,
    "ifWindow2SatField" : false ,
    "ifWindow2SunField" : false ,
    "ifWindow2ThuField" : false ,
    "ifWindow2TueField" : false ,
    "ifWindow2WedField" : false ,
    "ifWindow3FriField" : false ,
    "ifWindow3MonField" : false ,
    "ifWindow3SatField" : false ,
    "ifWindow3SunField" : false ,
    "ifWindow3ThuField" : false ,
    "ifWindow3TueField" : false ,
    "ifWindow3WedField" : false ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        183 ,
        11
    ] ,
    "lastNameField" : "" ,
    "lastUsedDateField" : "\\Date(1410295859017) \\/" ,
    "maximumNumberAllowedCombosField" : "0" ,
    "middleNameField" : "" ,
    "nicknameExpirationDateField" : null ,
    "nicknameField" : "" ,
    "numberCombosIssuedField" : "0" ,
    "numberTimeWindowsField" : "1" ,
    "regionField" : "KENTUCKY" ,
    "securityLevelField" : "2" ,
    "serviceBranchField" : "" ,
    "totalNumberCombosIssuedField" : "0" ,
    "userComboField" : "0" ,
    "userIDField" : "Route SHA Key 5" ,
    "window1DurationField" : "90" ,
    "window1StartField" : "70" ,
    "window2DurationField" : "0" ,
    "window2StartField" : "0" ,
    "window3DurationField" : "0" ,
    "window3StartField" : "0"
}
}

```

Chapter 3.4.8 - Web Service User Transactions

Read Key Information

This transaction is used to read the key in the specified Cencon keybox and return key information such as key serial number.

Transaction information required:

- IP Address and Port - Specifies the keybox to connect to from CenTran to read the key from.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description), and an information record about the key.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- No key is present in the keybox reader slot.
- Not authorized due to authorization role.

Key Data:

KeyInformation

This record contains generic data read from the key.

CanType

This is the can type of the key. This is a single byte value indicating the hardware model of the key. See below for possible values.

KeyID

This is the 6 byte key ID for the key in the key reader. The combination of the key ID and the can type is a unique value.

Key Model Descriptions:

Kaba Part	Abbreviation	Description	Category	Compatibility	Color	Shape	Model	Can Type
202020	F	FLM mode personnel	Lock User	Gen1 & Gen2	Blue	teardrop (bent)	DS1994	0x04
202022	R	Route mode personnel	Lock User	Gen1 & Gen2	Yellow	teardrop (bent)	DS1994	0x04
202023	B	Bank mode personnel	Lock User	Gen1 & Gen2	Green (Teal)	teardrop (bent)	DS1427	0x84
202024	L	Logon to Cencon (Ex: D, S, SS)	Software User	all Cencon S/W versions	Black	teardrop (bent)	DS1991	0x02
202021	SA	Supervisor Audit	Data Transfer	Gen1 & Gen2	Red	teardrop (bent)	DS1996	0x0C
202202	IS	Install Cencon 5 Software	Data Transfer	Cencon 5 & above only	Orange	hourglass (flat)	DS1963S	0x18
202226	CS	Clock Set	Data Transfer	Gen2 + Cencon 5 only	White	hourglass (flat)	DS1922L	0x41
202224	RS	Re-Sync	Data Transfer	Gen2 + Cencon 5 only	Dark Grey	hourglass (flat)	DS1963S	0x18
202220	F	FLM mode personnel	Lock User	Gen2 + Cencon 5 only	Blue	hourglass (flat)	DS1963S	0x18
202222	R	Route mode personnel	Lock User	Gen2 + Cencon 5 only	Yellow	hourglass (flat)	DS1963S	0x18
202223	B	Bank mode personnel	Lock User	Gen2 + Cencon 5 only	Green	hourglass (flat)	DS1963S	0x18

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/read_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/read_key
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_READ_KEY>
  <IPAddress>10.108.6.108:53003</IPAddress>
  <CommunicationsID/>
```

```

    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID/>
  </TRANSACTION_READ_KEY>

```

Example Output Transaction:

```

<RESPONSE_READ_KEY>
  <TRANSACTION_READ_KEY>
    <IPAddress>10.108.6.108:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>The key read information succeeded.</Description>
  </ResultRecord>
  <KeyInformation>
    <KeyID>0000003D6C33</KeyID>
    <CanType>18</CanType>
  </KeyInformation>
</RESPONSE_READ_KEY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran key read transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the IPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

Example

This example reads key information through a remote keybox agent persistent network connection:
KeyBoxSerialNumber:01E164991400008B

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/read_key
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/read_key
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "IPAddressField" : null
}

```

Example Output Transaction - JSON:

```
{
  "keyInformationField" :
  {
    "canTypeField" :
    [
      24
    ] ,
    "keyIDField" :
    [
      0 ,
      0 ,
      0 ,
      106 ,
      113 ,
      172
    ]
  } ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "The key read information succeeded."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_READ_KEYField" :
  {
    "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "iAddressField" : null
  }
}
```

3.4.9 Web Service User Transactions - Read User Key

CenTran Programming Reference Manual

This transaction is used to read the key in the specified Cencon keybox and return the matching user data from the Cencon database.

Transaction information required:

- IP Address and Port - Specifies the keybox to connect to from CenTran to read the key from.
- Communications ID - Specifies an alternate identification of a keybox to connect to from CenTran to read the key from. This is to support alternate methods of handling remote communications with keyboxes for various network topologies.
- Communications Method - Specifies the method of communication to be used to communicate with the key box. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description), the retrieved user record, and an array of user key audits read from the user key.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- No user is assigned to the key.
- No key is present in the keybox reader slot.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

User Key Audit Data:

- Event Type - This is the text description of the type of event.
- Lock Mode - This is an identifier for the lock mode involved in the event. This will be F, R, B, or empty.
- Serial Number - This is the serial number for the lock involved in the event.
- Lock Name - This is the lock name matching the lock serial number, as looked up from the Cencon database.
- Event Date - This is the date / time of the event in UTC based time.
- Lock Open Time - This is the date / time of the lock open event in UTC based time. This will be empty of not applicable to the event.
- Lock Close Time - This is the date / time of the lock close event in UTC based time. This will be empty of not applicable to the event.
- Lock Close Seal Count - This is the close seal count for the lock mode being closed. This will be empty of not applicable to the event.
- Lock Close Seal - This is the close seal for the lock mode being closed. This will be empty of not applicable to the event.
- Is Duplicate Close Seal - This flag indicates that the close seal is from a #4 operation at the lock to get the last close seal. This is used when the lock close seal was not retrieved by the person to last open the lock.
- Is Key Audit Record CRC Invalid - This flag indicates that the CRC (Cyclic Redundancy Check) value was not correct. This means the audit data could be corrupted or the audit trail on the key has been tampered with.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/read_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/read_key
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_READ_USER_KEY>
  <IPAddress>10.108.6.102:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_READ_USER_KEY>
```

Example Output Transaction:

```
<RESPONSE_READ_USER_KEY>
  <TRANSACTION_READ_USER_KEY>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_USER_KEY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
```

```

    <Description>The user key read succeeded.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>F3</UserID>
    <SecurityLevel>1</SecurityLevel>
    <KeyID>00000046107A</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>0</NumberCombosIssued>
    <CreationDate>2007-09-19T12:55:50Z</CreationDate>
    <DeletionDate/>
    <Nickname/>
    <NicknameExpirationDate/>
    <GroupName/>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Window1Start>0</Window1Start>
    <Window1Duration>0</Window1Duration>
    <IfWindow1Sun>>false</IfWindow1Sun>
    <IfWindow1Mon>>false</IfWindow1Mon>
    <IfWindow1Tue>>false</IfWindow1Tue>
    <IfWindow1Wed>>false</IfWindow1Wed>
    <IfWindow1Thu>>false</IfWindow1Thu>
    <IfWindow1Fri>>false</IfWindow1Fri>
    <IfWindow1Sat>>false</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>>false</IfWindow2Sun>
    <IfWindow2Mon>>false</IfWindow2Mon>
    <IfWindow2Tue>>false</IfWindow2Tue>
    <IfWindow2Wed>>false</IfWindow2Wed>
    <IfWindow2Thu>>false</IfWindow2Thu>
    <IfWindow2Fri>>false</IfWindow2Fri>
    <IfWindow2Sat>>false</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>>false</IfWindow3Sun>
    <IfWindow3Mon>>false</IfWindow3Mon>
    <IfWindow3Tue>>false</IfWindow3Tue>
    <IfWindow3Wed>>false</IfWindow3Wed>
    <IfWindow3Thu>>false</IfWindow3Thu>
    <IfWindow3Fri>>false</IfWindow3Fri>
    <IfWindow3Sat>>false</IfWindow3Sat>
    <Region>KENTUCKY</Region>
    <ServiceBranch/>
    <FirstName/>
    <MiddleName/>
    <LastName/>
    <LastUsedDate>2012-10-17T19:42:06.457Z</LastUsedDate>
    <AuthorizationRole>FLM</AuthorizationRole>
    <BankUserID>0</BankUserID>
    <TotalNumberCombosIssued>13271</TotalNumberCombosIssued>
    <MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
    <EnabledStartDate/>
    <EnabledEndDate/>
    <BankBranchName/>
    <CustomerID/>
    <UserCombo>1246576928</UserCombo>
    <IfMustChangeCombo>>false</IfMustChangeCombo>
    <IfLegacyImport>>false</IfLegacyImport>
  </UserRecord>
  <UserKeyAuditRecord>
    <EventType>Open Lock</EventType>
    <LockMode>F</LockMode>
    <SerialNumber>001000107</SerialNumber>
    <LockName>Gen2Lock 1000107</LockName>
    <EventDate>2012-10-17T19:41:15Z</EventDate>
    <LockOpenTime>2012-10-17T19:41:15Z</LockOpenTime>
    <LockCloseTime/>
    <LockCloseSealCount>3</LockCloseSealCount>
    <LockCloseSeal/>
    <IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
    <IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
  </UserKeyAuditRecord>
  <UserKeyAuditRecord>
    <EventType>Open/Close Lock</EventType>
    <LockMode>F</LockMode>
    <SerialNumber>001000107</SerialNumber>
    <LockName>Gen2Lock 1000107</LockName>
    <EventDate>2012-10-17T19:36:38Z</EventDate>
    <LockOpenTime>2012-10-17T19:36:38Z</LockOpenTime>
    <LockCloseTime>2012-10-17T19:36:38Z</LockCloseTime>
    <LockCloseSealCount>2</LockCloseSealCount>
    <LockCloseSeal>3413</LockCloseSeal>
    <IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
    <IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
  </UserKeyAuditRecord>
  <UserKeyAuditRecord>
    <EventType>Open Lock</EventType>
    <LockMode>F</LockMode>
    <SerialNumber>001000107</SerialNumber>
    <LockName>Gen2Lock 1000107</LockName>
    <EventDate>2012-08-28T14:14:38Z</EventDate>
    <LockOpenTime>2012-08-28T14:14:38Z</LockOpenTime>
    <LockCloseTime/>
    <LockCloseSealCount>7</LockCloseSealCount>
    <LockCloseSeal/>
    <IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
    <IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
  </UserKeyAuditRecord>

```


[illegible]

[illegible]

[illegible]

```

<LockName>Gen2Lock 1000107</LockName>
<EventDate>2011-09-20T22:33:01Z</EventDate>
<LockOpenTime>2011-09-20T22:33:01Z</LockOpenTime>
<LockCloseTime>2011-09-20T22:33:01Z</LockCloseTime>
<LockCloseSealCount>2</LockCloseSealCount>
<LockCloseSeal>1324</LockCloseSeal>
<IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
<IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
<UserKeyAuditRecord>
  <EventType>Open/Close Lock</EventType>
  <LockMode>F</LockMode>
  <SerialNumber>001000107</SerialNumber>
  <LockName>Gen2Lock 1000107</LockName>
  <EventDate>2010-06-23T12:15:01Z</EventDate>
  <LockOpenTime>2010-06-23T12:15:01Z</LockOpenTime>
  <LockCloseTime>2010-06-23T12:15:01Z</LockCloseTime>
  <LockCloseSealCount>4</LockCloseSealCount>
  <LockCloseSeal>1866</LockCloseSeal>
  <IsDuplicateCloseSeal>>false</IsDuplicateCloseSeal>
  <IsKeyAuditRecordCRCInvalid>>false</IsKeyAuditRecordCRCInvalid>
</UserKeyAuditRecord>
</RESPONSE_READ_USER_KEY>

```

Example 2 - Failure: Unknown key

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/read_key
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/read_key
```

Input Transaction: (HTTP Body)

```

<TRANSACTION_READ_USER_KEY>
  <IPAddress>10.108.6.102:53003</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_READ_USER_KEY>

```

Output Transaction:

In this example, the user key does not exist in the database.

```

<RESPONSE_READ_USER_KEY>
  <TRANSACTION_READ_USER_KEY>
    <IPAddress>10.108.6.102:53003</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_USER_KEY>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_USER_NOT_FOUND</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>User key serial number being read was not found in database.</Description>
  </ResultRecord>
</RESPONSE_READ_USER_KEY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran user key read transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.

1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

Example

This example reads a user key through a remote keybox agent persistent network connection:
KeyBoxSerialNumber:01E164991400008B

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/user/read_key
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/user/read_key
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "iAddressField" : null
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "The user key read succeeded."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_READ_USER_KEYField" :
  {
    "communicationsIDField" : "KeyBoxSerialNumber:01E164991400008B" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "iAddressField" : null
  } ,
  "userKeyAuditRecordField" :
  [
    {
      "eventDateField" : "\/Date(1409161520000)\/" ,
      "eventTypeField" : "Open\/Close Lock" ,
      "isDuplicateCloseSealField" : false ,
      "isKeyAuditRecordCRCInvalidField" : false ,
      "lockCloseSealCountField" : "8" ,
      "lockCloseSealField" : "3607" ,
      "lockCloseTimeField" : "\/Date(1409161552000)\/" ,
      "lockModeField" : 1 ,
      "lockNameField" : "Gen2 Swingbolt 1037890" ,
      "lockOpenTimeField" : "\/Date(1409161520000)\/" ,
      "serialNumberField" : "001037890"
    } ,
    {
      "eventDateField" : "\/Date(1394222586000)\/" ,
      "eventTypeField" : "Open Lock" ,
      "isDuplicateCloseSealField" : false ,
      "isKeyAuditRecordCRCInvalidField" : false ,
      "lockCloseSealCountField" : "5" ,
      "lockCloseSealField" : null ,

```

```

        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 1000107" ,
        "lockOpenTimeField" : "\Date(1394222586000)\/" ,
        "serialNumberField" : "001000107"
    } ,
    {
        "eventDateField" : "\Date(1394130729000)\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "4" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2Swingbolt 1000116" ,
        "lockOpenTimeField" : "\Date(1394130729000)\/" ,
        "serialNumberField" : "001000116"
    } ,
    {
        "eventDateField" : "\Date(1391010283000)\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "33" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\Date(1391010283000)\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\Date(1391008611000)\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "32" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\Date(1391008611000)\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\Date(1391008629000)\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "31" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\Date(1391008629000)\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\Date(1389986912000)\/" ,
        "eventTypeField" : "Open\Close Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "44" ,
        "lockCloseSealField" : "6971" ,
        "lockCloseTimeField" : "\Date(1389986944000)\/" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 1000107" ,
        "lockOpenTimeField" : "\Date(1389986912000)\/" ,
        "serialNumberField" : "001000107"
    } ,
    {
        "eventDateField" : "\Date(1389979548000)\/" ,
        "eventTypeField" : "Open\Close Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "43" ,
        "lockCloseSealField" : "5552" ,
        "lockCloseTimeField" : "\Date(1389979580000)\/" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 1000107" ,
        "lockOpenTimeField" : "\Date(1389979548000)\/" ,
        "serialNumberField" : "001000107"
    } ,
    {
        "eventDateField" : "\Date(1389908733000)\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "42" ,

```

```

        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 1000107" ,
        "lockOpenTimeField" : "\\Date(1389908733000)\\/" ,
        "serialNumberField" : "001000107"
    } ,
    {
        "eventDateField" : "\\Date(1389908570000)\\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "40" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 1000107" ,
        "lockOpenTimeField" : "\\Date(1389908570000)\\/" ,
        "serialNumberField" : "001000107"
    } ,
    {
        "eventDateField" : "\\Date(1389905479000)\\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "39" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 1000107" ,
        "lockOpenTimeField" : "\\Date(1389905479000)\\/" ,
        "serialNumberField" : "001000107"
    } ,
    {
        "eventDateField" : "\\Date(1389905207000)\\/" ,
        "eventTypeField" : "Open\\Close Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "38" ,
        "lockCloseSealField" : "1568" ,
        "lockCloseTimeField" : "\\Date(1389905367000)\\/" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 1000107" ,
        "lockOpenTimeField" : "\\Date(1389905207000)\\/" ,
        "serialNumberField" : "001000107"
    } ,
    {
        "eventDateField" : "\\Date(1389899191000)\\/" ,
        "eventTypeField" : "Open\\Close Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "37" ,
        "lockCloseSealField" : "8345" ,
        "lockCloseTimeField" : "\\Date(1389899511000)\\/" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 1000107" ,
        "lockOpenTimeField" : "\\Date(1389899191000)\\/" ,
        "serialNumberField" : "001000107"
    } ,
    {
        "eventDateField" : "\\Date(1389898108000)\\/" ,
        "eventTypeField" : "Open\\Close Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "36" ,
        "lockCloseSealField" : "4682" ,
        "lockCloseTimeField" : "\\Date(1389898364000)\\/" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 1000107" ,
        "lockOpenTimeField" : "\\Date(1389898108000)\\/" ,
        "serialNumberField" : "001000107"
    } ,
    {
        "eventDateField" : "\\Date(1389896719000)\\/" ,
        "eventTypeField" : "Open\\Close Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "35" ,
        "lockCloseSealField" : "1412" ,
        "lockCloseTimeField" : "\\Date(1389897839000)\\/" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 1000107" ,
        "lockOpenTimeField" : "\\Date(1389896719000)\\/" ,
        "serialNumberField" : "001000107"
    } ,
    {
        "eventDateField" : "\\Date(1389627829000)\\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,

```



```

        "lockCloseSealCountField" : "30" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\Date(1389627829000)\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\Date(1389627768000)\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "29" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\Date(1389627768000)\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\Date(1389627660000)\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "28" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\Date(1389627660000)\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\Date(1389281119000)\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "27" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\Date(1389281119000)\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\Date(1389280940000)\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "26" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\Date(1389280940000)\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\Date(1389280802000)\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "25" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\Date(1389280802000)\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\Date(1389280590000)\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "24" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\Date(1389280590000)\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\Date(1389215665000)\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,

```



```

        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "23" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\\Date(1389215665000)\\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\\Date(1389045399000)\\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "22" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\\Date(1389045399000)\\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\\Date(1389045304000)\\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "21" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\\Date(1389045304000)\\/" ,
        "serialNumberField" : "001037890"
    } ,
    {
        "eventDateField" : "\\Date(1389045172000)\\/" ,
        "eventTypeField" : "Open Lock" ,
        "isDuplicateCloseSealField" : false ,
        "isKeyAuditRecordCRCInvalidField" : false ,
        "lockCloseSealCountField" : "20" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\\Date(1389045172000)\\/" ,
        "serialNumberField" : "001037890"
    }
] ,
"userRecordField" :
{
    "authorizationRoleField" : "FLM" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "canTypeField" :
    [
        24
    ] ,
    "creationDateField" : "\\Date(1366738395113)\\/" ,
    "customerIDField" : "North Bank" ,
    "deletionDateField" : null ,
    "enabledEndDateField" : null ,
    "enabledStartDateField" : null ,
    "firstNameField" : "" ,
    "groupNameField" : "" ,
    "ifLegacyImportField" : false ,
    "ifMustChangeComboField" : true ,
    "ifWindow1FriField" : false ,
    "ifWindow1MonField" : false ,
    "ifWindow1SatField" : false ,
    "ifWindow1SunField" : false ,
    "ifWindow1ThuField" : false ,
    "ifWindow1TueField" : false ,
    "ifWindow1WedField" : false ,
    "ifWindow2FriField" : false ,
    "ifWindow2MonField" : false ,
    "ifWindow2SatField" : false ,
    "ifWindow2SunField" : false ,
    "ifWindow2ThuField" : false ,
    "ifWindow2TueField" : false ,
    "ifWindow2WedField" : false ,
    "ifWindow3FriField" : false ,
    "ifWindow3MonField" : false ,
    "ifWindow3SatField" : false ,
    "ifWindow3SunField" : false ,
    "ifWindow3ThuField" : false ,
    "ifWindow3TueField" : false ,
    "ifWindow3WedField" : false ,
    "keyIDField" :
    [

```

```

0 ,
0 ,
0 ,
106 ,
113 ,
172
] ,
"lastNameField" : "" ,
"lastUsedDateField" : "\Date(1409161010390)\" ,
"maximumNumberAllowedCombosField" : "0" ,
"middleNameField" : "" ,
"nicknameExpirationDateField" : null ,
"nicknameField" : "" ,
"numberCombosIssuedField" : "1" ,
"numberTimeWindowsField" : "0" ,
"regionField" : "KENTUCKY" ,
"securityLevelField" : "1" ,
"serviceBranchField" : "" ,
"totalNumberCombosIssuedField" : "98" ,
"userComboField" : "0" ,
"userIDField" : "FLM SHA Key 4" ,
>window1DurationField" : "0" ,
>window1StartField" : "0" ,
>window2DurationField" : "0" ,
>window2StartField" : "0" ,
>window3DurationField" : "0" ,
>window3StartField" : "0"
}
}

```

3.4.10 Web Service User Transactions - Delete User

CenTran Programming Reference Manual

This transaction is used to delete a user from the Cencon database based on the user name.

Note

CenTran is supporting only lock user key types for add key, edit key, and delete transactions. CenTran will not add, edit, or delete Cencon / CenTran logon key types. This is for security reasons. CenTran may be operating under a single token method of authorization (I.E. user name/password, etc). The Cencon / CenTran logon key types represent a dual token method of authorization.

Transaction information required:

- User ID - Uniquely identifies a user record to be deleted.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the deleted user record..

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- User doesn't exist.
- Not authorized due to authorization role.
- Not authorized due to region (region control active).

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/delete
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/delete
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_DELETE_USER>
  <UserID>fbob</UserID>
  <DispatcherID/>
</TRANSACTION_DELETE_USER>
```

Example Output Transaction:

```
<RESPONSE_DELETE_USER>
  <TRANSACTION_DELETE_USER>
    <UserID>fbob</UserID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_USER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>The user delete succeeded.</Description>
  </ResultRecord>
  <UserRecord>
    <UserID>fbob</UserID>
    <SecurityLevel>2</SecurityLevel>
    <KeyID>000000419428</KeyID>
    <CanType>04</CanType>
    <NumberCombosIssued>0</NumberCombosIssued>
    <CreationDate/>
    <DeletionDate>2012-08-28T18:06:06.276Z</DeletionDate>
    <Nickname>Bob Edw</Nickname>
    <NicknameExpirationDate>2003-03-28T08:55:44Z</NicknameExpirationDate>
    <GroupName/>
    <NumberTimeWindows>0</NumberTimeWindows>
    <Window1Start>0</Window1Start>
    <Window1Duration>0</Window1Duration>
    <IfWindow1Sun>>false</IfWindow1Sun>
    <IfWindow1Mon>>false</IfWindow1Mon>
    <IfWindow1Tue>>false</IfWindow1Tue>
    <IfWindow1Wed>>false</IfWindow1Wed>
    <IfWindow1Thu>>false</IfWindow1Thu>
    <IfWindow1Fri>>false</IfWindow1Fri>
    <IfWindow1Sat>>false</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>>false</IfWindow2Sun>
```

```

<IfWindow2Mon>false</IfWindow2Mon>
<IfWindow2Tue>false</IfWindow2Tue>
<IfWindow2Wed>false</IfWindow2Wed>
<IfWindow2Thu>false</IfWindow2Thu>
<IfWindow2Fri>false</IfWindow2Fri>
<IfWindow2Sat>false</IfWindow2Sat>
<Window3Start>0</Window3Start>
<Window3Duration>0</Window3Duration>
<IfWindow3Sun>false</IfWindow3Sun>
<IfWindow3Mon>false</IfWindow3Mon>
<IfWindow3Tue>false</IfWindow3Tue>
<IfWindow3Wed>false</IfWindow3Wed>
<IfWindow3Thu>false</IfWindow3Thu>
<IfWindow3Fri>false</IfWindow3Fri>
<IfWindow3Sat>false</IfWindow3Sat>
<Region>KENTUCKY</Region>
<ServiceBranch/>
<FirstName/>
<MiddleName/>
<LastName/>
<LastUsedDate>2011-07-19T17:07:50.623Z</LastUsedDate>
<AuthorizationRole>Route</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>3</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate/>
<EnabledEndDate/>
<BankBranchName/>
<CustomerID/>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>true</IfMustChangeCombo>
<IfLegacyImport>false</IfLegacyImport>
</UserRecord>
</RESPONSE_DELETE_USER>

```

Example 2 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/delete
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/delete
```

Input Transaction: (HTTP Body)

```

<TRANSACTION_DELETE_USER>
  <UserID>CDD</UserID>
  <DispatcherID/>
</TRANSACTION_DELETE_USER>

```

Output Transaction:

In this example, user CDD that is being deleted is a dispatcher.

```

<RESPONSE_DELETE_USER>
  <TRANSACTION_DELETE_USER>
    <UserID>CDD</UserID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_USER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_NOT_AUTHORIZED_TO_DO_OPERATION</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>CenTran only supports deleting FLM, Route, and Bank mode lock users.
  </Description>
  </ResultRecord>
</RESPONSE_DELETE_USER>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran delete user transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON**Input Transaction Format (HTTP Post) - JSON:**

```
https://{host}/CentranServiceJSON/rest/user/delete
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/user/delete
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "userIDField" : "newrsp"
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "The user delete succeeded."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_DELETE_USERField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "userIDField" : "newrsp"
  } ,
  "userRecordField" :
  {
    "authorizationRoleField" : "Route" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "canTypeField" :
    [
      4
    ] ,
    "creationDateField" : null ,
    "customerIDField" : "" ,
    "deletionDateField" : "\/Date(1410203678628)\/" ,
    "enabledEndDateField" : null ,
    "enabledStartDateField" : null ,
    "firstNameField" : "" ,
    "groupNameField" : "" ,
    "ifLegacyImportField" : false ,
    "ifMustChangeComboField" : false ,
    "ifWindow1FriField" : false ,
    "ifWindow1MonField" : false ,
    "ifWindow1SatField" : false ,
    "ifWindow1SunField" : false ,
    "ifWindow1ThuField" : false ,
    "ifWindow1TueField" : false ,
    "ifWindow1WedField" : false ,
    "ifWindow2FriField" : false ,
    "ifWindow2MonField" : false ,
    "ifWindow2SatField" : false ,
    "ifWindow2SunField" : false ,
    "ifWindow2ThuField" : false ,
    "ifWindow2TueField" : false ,
    "ifWindow2WedField" : false ,
    "ifWindow3FriField" : false ,
    "ifWindow3MonField" : false ,
    "ifWindow3SatField" : false ,
    "ifWindow3SunField" : false ,
    "ifWindow3ThuField" : false ,
    "ifWindow3TueField" : false ,
    "ifWindow3WedField" : false ,
    "keyIDField" :
    [
      0 ,
      0 ,
      0 ,
    ]
  }
}
```

```

    91 ,
    199 ,
    111
  ] ,
  "lastNameField" : "" ,
  "lastUsedDateField" : null ,
  "maximumNumberAllowedCombosField" : "0" ,
  "middleNameField" : "" ,
  "nicknameExpirationDateField" : "\/Date(1039532032000)\/" ,
  "nicknameField" : "jane" ,
  "numberCombosIssuedField" : "0" ,
  "numberTimeWindowsField" : "0" ,
  "regionField" : "KENTUCKY" ,
  "securityLevelField" : "2" ,
  "serviceBranchField" : "" ,
  "totalNumberCombosIssuedField" : "0" ,
  "userComboField" : "0" ,
  "userIDField" : "newrsp" ,
  "window1DurationField" : "0" ,
  "window1StartField" : "0" ,
  "window2DurationField" : "0" ,
  "window2StartField" : "0" ,
  "window3DurationField" : "0" ,
  "window3StartField" : "0"
}
}

```

3.4.11 Web Service User Transactions - User Table Query

CenTran Programming Reference Manual

This transaction queries the user table for a set of user records. The query record in the input transaction file contains a set of user fields to create a query from. The query record also contains a flag indicating if to use like search or exact search. The query transaction attempts to work in a similar fashion as Cencon's 'Find Users' form to search for users to be displayed in a user report.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the user records in the user table are retrieved.

- User ID
- Nickname
- Group Name
- Key ID
- Array of user authorization roles (FLM, Supervisor etc)
- Combo Issued range (Combo Issued Minimum and Combo Issued Maximum)
- Has Time Window Set flag
- Has Group Name Access Check flag
- Creation Date range (Creation Date Start and Creation Date End)
- Deletion Date range (Deletion Date Start and Deletion Date End - applies to User History and User Archive Table search)
- Last Used Date range (Last Used Date Start and Last Used Date End)
- Enabled Start Date range (Enabled Start Date Start and Enabled Start Date End)
- Enabled End Date range (Enabled End Date Start and Enabled End Date End)
- Region Name
- Customer ID
- Service Branch
- First Name
- Middle Name
- Last Name
- Bank Branch Name
- Lock Serial Number - This specifies to search for users dispatched to a lock serial number.
- List Key Model - This specifies key models (can types) to search for.
- If Search Enabled Users - This specifies to return only enabled users.
- If Search Dispatches Exceeded - This specifies to return only users who have exceeded their permitted number of dispatches.
- If Has Time Window - This specifies to return only users who have a time window restriction defined.
- If Group Name Access Check - This specifies to do a comparison for group name access. Group based access restriction is no longer supported. This field is for backwards compatibility.
- Bank User ID - This specifies to search for a numeric bank user id.
- Bank Branch Name - This specifies to search for users assigned to the specified bank branch.
- If Legacy Import - This specifies to search for users that are a legacy import from an earlier version of the Cenbank software.
- If Search Exact Flag - This specifies that strings used in the search must be an exact match.
- If Post Fix Wild card Only - This specifies that approximate matches of strings are done against the start of the string.
- Dispatcher ID (Optional) - This is not part of the query record. If this field is missing or left blank, the default dispatcher ID specified in CenTran's registry is used.

Note: If the Dispatcher belongs to a local region and region control is enabled, only those users belonging to that particular region and also satisfying the search condition are retrieved. The search condition's region field value is automatically set to the dispatcher's local region even if a different value has already been provided in the query record.

Note: For the Creation Date Range, Deletion Date Range, Last Used Date Range and the Combo Issued Range, both the lower and upper bounds for the search have to be specified.

Note: If string fields such as Nickname or Customer ID are left blank, those fields are left out of the search query (CenTran does not search for user records having an empty Nickname or Customer ID field. This applies to all the query transactions.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the user records (with the encrypted password fields left blank) matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation.
- Database error – failed to open user table.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/query
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CenTranService/rest/user/query
```

Input Transaction: (HTTP Body)

```

<TRANSACTION_USER_QUERY>
  <UserQueryRecord>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ServiceBranch>Dieb</ServiceBranch>
    <!-- char string -->
    <FirstName>Query</FirstName>
    <!-- char string -->
    <MiddleName>Q</MiddleName>
    <!-- char string -->
    <LastName>User</LastName>
    <!-- char string -->
    <Nickname>Qu</Nickname>
    <!-- long -->
    <CombosIssuedMinimum>2</CombosIssuedMinimum>
    <!-- long -->
    <CombosIssuedMaximum>4</CombosIssuedMaximum>
    <!-- date -->
    <CreationDateStart>2004-12-21T15:00:00</CreationDateStart>
    <!-- date -->
    <CreationDateEnd>2004-12-23T16:00:00</CreationDateEnd>
    <!-- date -->
    <LastUsedDateStart>2005-03-01T15:00:00</LastUsedDateStart>
    <!-- date -->
    <LastUsedDateEnd>2005-04-02T16:00:00</LastUsedDateEnd>
    <!-- boolean -->
    <IfHasTimeWindow>1</IfHasTimeWindow>
    <!-- char string -->
    <Region>TestRegionD</Region>
    <!-- boolean -->
    <IfSearchExact>1</IfSearchExact>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_QUERY>

```

Output Transaction:

```

<RESPONSE_USER_QUERY>
  <TRANSACTION_USER_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UserQueryRecord>
      <CustomerID>ACustomer</CustomerID>
      <ServiceBranch>Dieb</ServiceBranch>
      <FirstName>Query</FirstName>
      <MiddleName>Q</MiddleName>
      <LastName>User</LastName>
      <Nickname>Qu</Nickname>
      <CombosIssuedMinimum>2</CombosIssuedMinimum>
      <CombosIssuedMaximum>4</CombosIssuedMaximum>
      <CreationDateStart>2004-12-21T15:00:00</CreationDateStart>
      <CreationDateEnd>2004-12-23T16:00:00</CreationDateEnd>
      <LastUsedDateStart>2005-03-01T15:00:00</LastUsedDateStart>
      <LastUsedDateEnd>2005-04-02T16:00:00</LastUsedDateEnd>
      <IfHasTimeWindow>1</IfHasTimeWindow>
      <Region>TestRegionD</Region>
      <IfSearchExact>1</IfSearchExact>
    </UserQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>User record/s found satisfying the search condition.
    </Description>
  </ResultRecord>
  <UserRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <UserID>TestQueryUser1</UserID>
    <Nickname>Qu</Nickname>
    <GroupName>aa</GroupName>
    <KeyID>000000946CD8</KeyID>
    <CanType>04</CanType>
    <SecurityLevel>2</SecurityLevel>
    <NicknameExpirationDate>1969-12-31T23:40:42</NicknameExpirationDate>
    <NumberCombosIssued>3</NumberCombosIssued>
    <NumberTimeWindows>1</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>90</Window1Duration>
    <IfWindow1Sun>0</IfWindow1Sun>
    <IfWindow1Mon>1</IfWindow1Mon>
    <IfWindow1Tue>1</IfWindow1Tue>
    <IfWindow1Wed>0</IfWindow1Wed>
    <IfWindow1Thu>0</IfWindow1Thu>
    <IfWindow1Fri>0</IfWindow1Fri>
    <IfWindow1Sat>0</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>0</IfWindow2Sun>
    <IfWindow2Mon>0</IfWindow2Mon>
    <IfWindow2Tue>0</IfWindow2Tue>
    <IfWindow2Wed>0</IfWindow2Wed>
    <IfWindow2Thu>0</IfWindow2Thu>
    <IfWindow2Fri>0</IfWindow2Fri>
    <IfWindow2Sat>0</IfWindow2Sat>
    <Window3Start>0</Window3Start>

```



```

<Window3Duration>0</Window3Duration>
<IfWindow3Sun>0</IfWindow3Sun>
<IfWindow3Mon>0</IfWindow3Mon>
<IfWindow3Tue>0</IfWindow3Tue>
<IfWindow3Wed>0</IfWindow3Wed>
<IfWindow3Thu>0</IfWindow3Thu>
<IfWindow3Fri>0</IfWindow3Fri>
<IfWindow3Sat>0</IfWindow3Sat>
<CreationDate>2004-12-22T15:49:18.765Z</CreationDate>
<DeletionDate xsi:nil="true" />
<UserPassword />
<Region>TestRegionD</Region>
<ServiceBranch>Dieb</ServiceBranch>
<FirstName>Query</FirstName>
<MiddleName>Q</MiddleName>
<LastName>User</LastName>
<LastUsedDate>2005-04-01T17:19:52.763Z</LastUsedDate>
<AuthorizationRole>Route</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>0</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate xsi:nil="true" />
<EnabledEndDate xsi:nil="true" />
<BankBranchName />
<CustomerID>ACustomer</CustomerID>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>1</IfMustChangeCombo>
</UserRecord>
</RESPONSE_USER_QUERY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran user table query transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the user table for any users assigned to customer ID **Bank of the West**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/user/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/user/query
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "dispatcherIDField" : null ,
  "userQueryRecordField" :
  {
    "bankBranchNameField" : null ,
    "bankUserIDField" : null ,
    "combosIssuedMaximumField" : null ,
    "combosIssuedMinimumField" : null ,
    "creationDateEndField" : null ,
    "creationDateEndFieldSpecified" : false ,
    "creationDateStartField" : null ,
    "creationDateStartFieldSpecified" : false ,
    "customerIDField" : "Bank of the West" ,
    "deletionDateEndField" : null ,
    "deletionDateEndFieldSpecified" : false ,

```

```

        "deletionDateStartField" : null ,
        "deletionDateStartFieldSpecified" : false ,
        "enabledEndDateEndField" : null ,
        "enabledEndDateEndFieldSpecified" : false ,
        "enabledEndDateStartField" : null ,
        "enabledEndDateStartFieldSpecified" : false ,
        "enabledStartDateEndField" : null ,
        "enabledStartDateEndFieldSpecified" : false ,
        "enabledStartDateStartField" : null ,
        "enabledStartDateStartFieldSpecified" : false ,
        "firstNameField" : null ,
        "groupNameField" : null ,
        "ifGroupNameAccessCheckField" : false ,
        "ifGroupNameAccessCheckFieldSpecified" : false ,
        "ifHasTimeWindowField" : false ,
        "ifHasTimeWindowFieldSpecified" : false ,
        "ifLegacyImportField" : false ,
        "ifLegacyImportFieldSpecified" : false ,
        "ifPostFixWildCardOnlyField" : false ,
        "ifPostFixWildCardOnlyFieldSpecified" : false ,
        "ifSearchDispatchesExceededField" : false ,
        "ifSearchDispatchesExceededFieldSpecified" : false ,
        "ifSearchEnabledUsersField" : false ,
        "ifSearchEnabledUsersFieldSpecified" : false ,
        "ifSearchExactField" : false ,
        "ifSearchExactFieldSpecified" : false ,
        "keyIDField" : null ,
        "lastNameField" : null ,
        "lastUsedDateEndField" : null ,
        "lastUsedDateEndFieldSpecified" : false ,
        "lastUsedDateStartField" : null ,
        "lastUsedDateStartFieldSpecified" : false ,
        "listAuthorizationRolesField" : null ,
        "listKeyModelField" : null ,
        "lockSerialNumberField" : null ,
        "middleNameField" : null ,
        "nicknameField" : null ,
        "regionField" : null ,
        "serviceBranchField" : null ,
        "userIDField" : null
    }
}

```

Example Output Transaction - JSON:

```

{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of user records matching the given query: 2."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_USER_QUERYField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "userQueryRecordField" :
    {
      "bankBranchNameField" : null ,
      "bankUserIDField" : null ,
      "combosIssuedMaximumField" : null ,
      "combosIssuedMinimumField" : null ,
      "creationDateEndField" : null ,
      "creationDateEndFieldSpecified" : false ,
      "creationDateStartField" : null ,
      "creationDateStartFieldSpecified" : false ,
      "customerIDField" : "Bank of the West" ,
      "deletionDateEndField" : null ,
      "deletionDateEndFieldSpecified" : false ,
      "deletionDateStartField" : null ,
      "deletionDateStartFieldSpecified" : false ,
      "enabledEndDateEndField" : null ,
      "enabledEndDateEndFieldSpecified" : false ,
      "enabledEndDateStartField" : null ,
      "enabledEndDateStartFieldSpecified" : false ,
      "enabledStartDateEndField" : null ,
      "enabledStartDateEndFieldSpecified" : false ,
      "enabledStartDateStartField" : null ,
      "enabledStartDateStartFieldSpecified" : false ,
      "firstNameField" : null ,
      "groupNameField" : null ,
      "ifGroupNameAccessCheckField" : false ,
      "ifGroupNameAccessCheckFieldSpecified" : false ,
      "ifHasTimeWindowField" : false ,
      "ifHasTimeWindowFieldSpecified" : false ,
      "ifLegacyImportField" : false ,
      "ifLegacyImportFieldSpecified" : false ,
    }
  }
}

```

```

        "ifPostFixWildCardOnlyField" : false ,
        "ifPostFixWildCardOnlyFieldSpecified" : false ,
        "ifSearchDispatchesExceededField" : false ,
        "ifSearchDispatchesExceededFieldSpecified" : false ,
        "ifSearchEnabledUsersField" : false ,
        "ifSearchEnabledUsersFieldSpecified" : false ,
        "ifSearchExactField" : false ,
        "ifSearchExactFieldSpecified" : false ,
        "keyIDField" : null ,
        "lastNameField" : null ,
        "lastUsedDateEndField" : null ,
        "lastUsedDateEndFieldSpecified" : false ,
        "lastUsedDateStartField" : null ,
        "lastUsedDateStartFieldSpecified" : false ,
        "listAuthorizationRolesField" : null ,
        "listKeyModelField" : null ,
        "lockSerialNumberField" : null ,
        "middleNameField" : null ,
        "nicknameField" : null ,
        "regionField" : null ,
        "serviceBranchField" : null ,
        "userIDField" : null
    }
} ,
"userRecordField" :
[
    {
        "authorizationRoleField" : "Bank" ,
        "bankBranchNameField" : "Bank of the West (0200)" ,
        "bankUserIDField" : "79" ,
        "canTypeField" :
        [
            132
        ] ,
        "creationDateField" : "\/Date(1349447470323)\/" ,
        "customerIDField" : "Bank of the West" ,
        "deletionDateField" : null ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            130 ,
            28 ,
            112 ,
            58 ,
            4 ,
            0
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\/Date(1349447470323)\/" ,
        "maximumNumberAllowedCombosField" : "0" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "0" ,
        "regionField" : "KENTUCKY" ,
        "securityLevelField" : "4" ,
        "serviceBranchField" : "1234" ,
        "totalNumberCombosIssuedField" : "0" ,
        "userComboField" : "111111" ,
        "userIDField" : "James Adams" ,
        "window1DurationField" : "0" ,
        "window1StartField" : "0" ,
        "window2DurationField" : "0" ,
    }
]

```

```

        "window2StartField" : "0" ,
        "window3DurationField" : "0" ,
        "window3StartField" : "0"
    } ,
    {
        "authorizationRoleField" : "Bank" ,
        "bankBranchNameField" : "Bank of the West (0200)" ,
        "bankUserIDField" : "22" ,
        "canTypeField" :
        [
            132
        ] ,
        "creationDateField" : "\Date(1349447582733)\/" ,
        "customerIDField" : "Bank of the West" ,
        "deletionDateField" : null ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : true ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            14 ,
            149 ,
            93
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\Date(1349447582733)\/" ,
        "maximumNumberAllowedCombosField" : "0" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "0" ,
        "regionField" : "KENTUCKY" ,
        "securityLevelField" : "4" ,
        "serviceBranchField" : "" ,
        "totalNumberCombosIssuedField" : "0" ,
        "userComboField" : "-1" ,
        "userIDField" : "old key" ,
        "window1DurationField" : "0" ,
        "window1StartField" : "0" ,
        "window2DurationField" : "0" ,
        "window2StartField" : "0" ,
        "window3DurationField" : "0" ,
        "window3StartField" : "0"
    }
}

```

3.4.12 Web Service User Transactions - User Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the user table matching the given query condition. This transaction uses the same format as the User Table Query transaction. Note that you can search for any of the user database columns. The specified search items are "anded" together for the query.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user/query-count
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user/query-count
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_USER_QUERY_COUNT>
  <UserQueryRecord>
    <!-- char string -->
    <Region>TestRegionD</Region>
    <!-- List of strings -->
    <ListAuthorizationRoles>
      <AuthorizationRole>FLM</AuthorizationRole>
      <AuthorizationRole>Bank</AuthorizationRole>
      <AuthorizationRole>Supervisor</AuthorizationRole>
    </ListAuthorizationRoles>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_QUERY_COUNT>
```

Output Transaction:

In this example, the output indicates that there are 4 FLM/Bank/Supervisor users in region TestRegionD.

```
<RESPONSE_USER_QUERY_COUNT>
  <TRANSACTION_USER_QUERY_COUNT xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UserQueryRecord>
      <Region>TestRegionD</Region>
      <ListAuthorizationRoles>
        <AuthorizationRole>FLM</AuthorizationRole>
        <AuthorizationRole>Bank</AuthorizationRole>
        <AuthorizationRole>Supervisor</AuthorizationRole>
      </ListAuthorizationRoles>
    </UserQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of user records matching the given query: 4.
  </Description>
  </ResultRecord>
  <QueryCount>4</QueryCount>
</RESPONSE_USER_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran user table query count transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the user table for the count of users assigned to customer ID **Bank of the West**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/user/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/user/user/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "userQueryRecordField" :
  {
    "bankBranchNameField" : null ,
    "bankUserIDField" : null ,
    "combosIssuedMaximumField" : null ,
    "combosIssuedMinimumField" : null ,
    "creationDateEndField" : null ,
    "creationDateEndFieldSpecified" : false ,
    "creationDateStartField" : null ,
    "creationDateStartFieldSpecified" : false ,
    "customerIDField" : "Bank of the West" ,
    "deletionDateEndField" : null ,
    "deletionDateEndFieldSpecified" : false ,
    "deletionDateStartField" : null ,
    "deletionDateStartFieldSpecified" : false ,
    "enabledEndDateEndField" : null ,
    "enabledEndDateEndFieldSpecified" : false ,
    "enabledEndDateStartField" : null ,
    "enabledEndDateStartFieldSpecified" : false ,
    "enabledStartDateEndField" : null ,
    "enabledStartDateEndFieldSpecified" : false ,
    "enabledStartDateStartField" : null ,
    "enabledStartDateStartFieldSpecified" : false ,
    "firstNameField" : null ,
    "groupNameField" : null ,
    "ifGroupNameAccessCheckField" : false ,
    "ifGroupNameAccessCheckFieldSpecified" : false ,
    "ifHasTimeWindowField" : false ,
    "ifHasTimeWindowFieldSpecified" : false ,
    "ifLegacyImportField" : false ,
    "ifLegacyImportFieldSpecified" : false ,
    "ifPostFixWildCardOnlyField" : false ,
    "ifPostFixWildCardOnlyFieldSpecified" : false ,
    "ifSearchDispatchesExceededField" : false ,
    "ifSearchDispatchesExceededFieldSpecified" : false ,
    "ifSearchEnabledUsersField" : false ,
    "ifSearchEnabledUsersFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "keyIDField" : null ,
    "lastNameField" : null ,
    "lastUsedDateEndField" : null ,
    "lastUsedDateEndFieldSpecified" : false ,
    "lastUsedDateStartField" : null ,
    "lastUsedDateStartFieldSpecified" : false ,
    "listAuthorizationRolesField" : null ,
    "listKeyModelField" : null ,
    "lockSerialNumberField" : null ,
    "middleNameField" : null ,
    "nicknameField" : null ,
    "regionField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "2" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of user records matching the given query: 2."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "TRANSACTION_USER_QUERY_COUNTField" :
  {
    "dispatcherIDField" : "CentranSS" ,
  }
}
```

```

"userQueryRecordField" :
{
    "bankBranchNameField" : null ,
    "bankUserIDField" : null ,
    "combosIssuedMaximumField" : null ,
    "combosIssuedMinimumField" : null ,
    "creationDateEndField" : null ,
    "creationDateEndFieldSpecified" : false ,
    "creationDateStartField" : null ,
    "creationDateStartFieldSpecified" : false ,
    "customerIDField" : "Bank of the West" ,
    "deletionDateEndField" : null ,
    "deletionDateEndFieldSpecified" : false ,
    "deletionDateStartField" : null ,
    "deletionDateStartFieldSpecified" : false ,
    "enabledEndDateEndField" : null ,
    "enabledEndDateEndFieldSpecified" : false ,
    "enabledEndDateStartField" : null ,
    "enabledEndDateStartFieldSpecified" : false ,
    "enabledStartDateEndField" : null ,
    "enabledStartDateEndFieldSpecified" : false ,
    "enabledStartDateStartField" : null ,
    "enabledStartDateStartFieldSpecified" : false ,
    "firstNameField" : null ,
    "groupNameField" : null ,
    "ifGroupNameAccessCheckField" : false ,
    "ifGroupNameAccessCheckFieldSpecified" : false ,
    "ifHasTimeWindowField" : false ,
    "ifHasTimeWindowFieldSpecified" : false ,
    "ifLegacyImportField" : false ,
    "ifLegacyImportFieldSpecified" : false ,
    "ifPostFixWildCardOnlyField" : false ,
    "ifPostFixWildCardOnlyFieldSpecified" : false ,
    "ifSearchDispatchesExceededField" : false ,
    "ifSearchDispatchesExceededFieldSpecified" : false ,
    "ifSearchEnabledUsersField" : false ,
    "ifSearchEnabledUsersFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "keyIDField" : null ,
    "lastNameField" : null ,
    "lastUsedDateEndField" : null ,
    "lastUsedDateEndFieldSpecified" : false ,
    "lastUsedDateStartField" : null ,
    "lastUsedDateStartFieldSpecified" : false ,
    "listAuthorizationRolesField" : null ,
    "listKeyModelField" : null ,
    "lockSerialNumberField" : null ,
    "middleNameField" : null ,
    "nicknameField" : null ,
    "regionField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : null
}
}
}

```

3.4.13 Web Service User Transactions - User History Table Query

CenTran Programming Reference Manual

This transaction operates in the same manner as the User Table Query, but is applied against the User History Table.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user-history/query
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user-history/query
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_USER_HISTORY_QUERY>
  <UserQueryRecord>
    <!-- char string -->
    <CustomerID>Cust</CustomerID>
    <!-- char string -->
    <ServiceBranch>D</ServiceBranch>
    <!-- date -->
    <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
    <!-- date -->
    <DeletionDateEnd>2007-04-02T16:00:00</DeletionDateEnd>
    <!-- bool -->
    <IfSearchExact>0</IfSearchExact>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_HISTORY_QUERY>
```

Output Transaction:

Here, all records in the user history table which have Customer ID like 'Cust' (If Search Exact flag is set to false), Service Branch like 'D' (If Search Exact flag is set to false) and Deletion Date between 2005-03-01 15:00:00 and 2007-04-02 16:00:00 are retrieved. There are two records which match the search condition. The actual Customer ID in these two records is 'ACustomer' and the actual service branch in these two records is 'Dieb'.

```
<RESPONSE_USER_HISTORY_QUERY>
  <TRANSACTION_USER_HISTORY_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UserQueryRecord>
      <CustomerID>Cust</CustomerID>
      <ServiceBranch>D</ServiceBranch>
      <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
      <DeletionDateEnd>2007-04-02T16:00:00</DeletionDateEnd>
      <IfSearchExact>0</IfSearchExact>
    </UserQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_HISTORY_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>User history record/s found satisfying the search condition.</Description>
  </ResultRecord>
  <UserRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <UserID>TestQueryUser1</UserID>
    <Nickname>Qu</Nickname>
    <GroupName>aa</GroupName>
    <KeyID>000000946CD8</KeyID>
    <CanType>04</CanType>
    <SecurityLevel>2</SecurityLevel>
    <NicknameExpirationDate>1969-12-31T23:40:42</NicknameExpirationDate>
    <NumberCombosIssued>3</NumberCombosIssued>
    <NumberTimeWindows>1</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>90</Window1Duration>
    <IfWindow1Sun>0</IfWindow1Sun>
    <IfWindow1Mon>1</IfWindow1Mon>
    <IfWindow1Tue>1</IfWindow1Tue>
    <IfWindow1Wed>0</IfWindow1Wed>
    <IfWindow1Thu>0</IfWindow1Thu>
    <IfWindow1Fri>0</IfWindow1Fri>
    <IfWindow1Sat>0</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>0</IfWindow2Sun>
    <IfWindow2Mon>0</IfWindow2Mon>
    <IfWindow2Tue>0</IfWindow2Tue>
    <IfWindow2Wed>0</IfWindow2Wed>
    <IfWindow2Thu>0</IfWindow2Thu>
    <IfWindow2Fri>0</IfWindow2Fri>
    <IfWindow2Sat>0</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>0</IfWindow3Sun>
    <IfWindow3Mon>0</IfWindow3Mon>
    <IfWindow3Tue>0</IfWindow3Tue>
    <IfWindow3Wed>0</IfWindow3Wed>
```



```

<IfWindow3Thu>0</IfWindow3Thu>
<IfWindow3Fri>0</IfWindow3Fri>
<IfWindow3Sat>0</IfWindow3Sat>
<CreationDate>2004-12-22T15:49:18</CreationDate>
<DeletionDate>2005-12-22T15:49:18</DeletionDate>
<UserPassword />
<Region>TestRegionD</Region>
<ServiceBranch>Dieb</ServiceBranch>
<FirstName>Query</FirstName>
<MiddleName>Q</MiddleName>
<LastName>User</LastName>
<LastUsedDate>2005-04-01T17:19:52</LastUsedDate>
<AuthorizationRole>Route</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>0</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate xsi:nil="true" />
<EnabledEndDate xsi:nil="true" />
<BankBranchName />
<CustomerID>ACustomer</CustomerID>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>1</IfMustChangeCombo>
</UserRecord>
<UserRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <UserID>TestQueryUser1</UserID>
  <Nickname>Qu</Nickname>
  <GroupName>aa</GroupName>
  <KeyID>000000946CD8</KeyID>
  <CanType>04</CanType>
  <SecurityLevel>2</SecurityLevel>
  <NicknameExpirationDate>1969-12-31T23:40:42</NicknameExpirationDate>
  <NumberCombosIssued>3</NumberCombosIssued>
  <NumberTimeWindows>1</NumberTimeWindows>
  <Window1Start>80</Window1Start>
  <Window1Duration>90</Window1Duration>
  <IfWindow1Sun>0</IfWindow1Sun>
  <IfWindow1Mon>1</IfWindow1Mon>
  <IfWindow1Tue>1</IfWindow1Tue>
  <IfWindow1Wed>0</IfWindow1Wed>
  <IfWindow1Thu>0</IfWindow1Thu>
  <IfWindow1Fri>0</IfWindow1Fri>
  <IfWindow1Sat>0</IfWindow1Sat>
  <Window2Start>0</Window2Start>
  <Window2Duration>0</Window2Duration>
  <IfWindow2Sun>0</IfWindow2Sun>
  <IfWindow2Mon>0</IfWindow2Mon>
  <IfWindow2Tue>0</IfWindow2Tue>
  <IfWindow2Wed>0</IfWindow2Wed>
  <IfWindow2Thu>0</IfWindow2Thu>
  <IfWindow2Fri>0</IfWindow2Fri>
  <IfWindow2Sat>0</IfWindow2Sat>
  <Window3Start>0</Window3Start>
  <Window3Duration>0</Window3Duration>
  <IfWindow3Sun>0</IfWindow3Sun>
  <IfWindow3Mon>0</IfWindow3Mon>
  <IfWindow3Tue>0</IfWindow3Tue>
  <IfWindow3Wed>0</IfWindow3Wed>
  <IfWindow3Thu>0</IfWindow3Thu>
  <IfWindow3Fri>0</IfWindow3Fri>
  <IfWindow3Sat>0</IfWindow3Sat>
  <CreationDate>2005-04-02T15:49:18</CreationDate>
  <DeletionDate>2006-12-22T15:49:18</DeletionDate>
  <UserPassword />
  <Region>TestRegionD</Region>
  <ServiceBranch>Dieb</ServiceBranch>
  <FirstName>Query</FirstName>
  <MiddleName>Q</MiddleName>
  <LastName>User</LastName>
  <LastUsedDate>2005-04-02T17:19:52</LastUsedDate>
  <AuthorizationRole>Route</AuthorizationRole>
  <BankUserID>0</BankUserID>
  <TotalNumberCombosIssued>0</TotalNumberCombosIssued>
  <MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
  <EnabledStartDate xsi:nil="true" />
  <EnabledEndDate xsi:nil="true" />
  <BankBranchName />
  <CustomerID>ACustomer</CustomerID>
  <UserCombo>0</UserCombo>
  <IfMustChangeCombo>1</IfMustChangeCombo>
</UserRecord>
</RESPONSE_USER_HISTORY_QUERY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran user history table query transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the user history table for deleted users assigned to bank branch name **North Bank Branch**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/user-history/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/user-history/query
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "userQueryRecordField" :
  {
    "bankBranchNameField" : "North Bank Branch" ,
    "bankUserIDField" : null ,
    "combosIssuedMaximumField" : null ,
    "combosIssuedMinimumField" : null ,
    "creationDateEndField" : null ,
    "creationDateEndFieldSpecified" : false ,
    "creationDateStartField" : null ,
    "creationDateStartFieldSpecified" : false ,
    "customerIDField" : null ,
    "deletionDateEndField" : null ,
    "deletionDateEndFieldSpecified" : false ,
    "deletionDateStartField" : null ,
    "deletionDateStartFieldSpecified" : false ,
    "enabledEndDateEndField" : null ,
    "enabledEndDateEndFieldSpecified" : false ,
    "enabledEndDateStartField" : null ,
    "enabledEndDateStartFieldSpecified" : false ,
    "enabledStartDateEndField" : null ,
    "enabledStartDateEndFieldSpecified" : false ,
    "enabledStartDateStartField" : null ,
    "enabledStartDateStartFieldSpecified" : false ,
    "firstNameField" : null ,
    "groupNameField" : null ,
    "ifGroupNameAccessCheckField" : false ,
    "ifGroupNameAccessCheckFieldSpecified" : false ,
    "ifHasTimeWindowField" : false ,
    "ifHasTimeWindowFieldSpecified" : false ,
    "ifLegacyImportField" : false ,
    "ifLegacyImportFieldSpecified" : false ,
    "ifPostFixWildCardOnlyField" : false ,
    "ifPostFixWildCardOnlyFieldSpecified" : false ,
    "ifSearchDispatchesExceededField" : false ,
    "ifSearchDispatchesExceededFieldSpecified" : false ,
    "ifSearchEnabledUsersField" : false ,
    "ifSearchEnabledUsersFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "keyIDField" : null ,
    "lastNameField" : null ,
    "lastUsedDateEndField" : null ,
    "lastUsedDateEndFieldSpecified" : false ,
    "lastUsedDateStartField" : null ,
    "lastUsedDateStartFieldSpecified" : false ,
    "listAuthorizationRolesField" : null ,
    "listKeyModelField" : null ,
    "lockSerialNumberField" : null ,
    "middleNameField" : null ,
    "nicknameField" : null ,
    "regionField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : null
  }
}
```

```
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of user records matching the given query: 4."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_USER_HISTORY_QUERYField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "userQueryRecordField" :
    {
      "bankBranchNameField" : "North Bank Branch" ,
      "bankUserIDField" : null ,
      "combosIssuedMaximumField" : null ,
      "combosIssuedMinimumField" : null ,
      "creationDateEndField" : null ,
      "creationDateEndFieldSpecified" : false ,
      "creationDateStartField" : null ,
      "creationDateStartFieldSpecified" : false ,
      "customerIDField" : null ,
      "deletionDateEndField" : null ,
      "deletionDateEndFieldSpecified" : false ,
      "deletionDateStartField" : null ,
      "deletionDateStartFieldSpecified" : false ,
      "enabledEndDateEndField" : null ,
      "enabledEndDateEndFieldSpecified" : false ,
      "enabledEndDateStartField" : null ,
      "enabledEndDateStartFieldSpecified" : false ,
      "enabledStartDateEndField" : null ,
      "enabledStartDateEndFieldSpecified" : false ,
      "enabledStartDateStartField" : null ,
      "enabledStartDateStartFieldSpecified" : false ,
      "firstNameField" : null ,
      "groupNameField" : null ,
      "ifGroupNameAccessCheckField" : false ,
      "ifGroupNameAccessCheckFieldSpecified" : false ,
      "ifHasTimeWindowField" : false ,
      "ifHasTimeWindowFieldSpecified" : false ,
      "ifLegacyImportField" : false ,
      "ifLegacyImportFieldSpecified" : false ,
      "ifPostFixWildCardOnlyField" : false ,
      "ifPostFixWildCardOnlyFieldSpecified" : false ,
      "ifSearchDispatchesExceededField" : false ,
      "ifSearchDispatchesExceededFieldSpecified" : false ,
      "ifSearchEnabledUsersField" : false ,
      "ifSearchEnabledUsersFieldSpecified" : false ,
      "ifSearchExactField" : false ,
      "ifSearchExactFieldSpecified" : false ,
      "keyIDField" : null ,
      "lastNameField" : null ,
      "lastUsedDateEndField" : null ,
      "lastUsedDateEndFieldSpecified" : false ,
      "lastUsedDateStartField" : null ,
      "lastUsedDateStartFieldSpecified" : false ,
      "listAuthorizationRolesField" : null ,
      "listKeyModelField" : null ,
      "lockSerialNumberField" : null ,
      "middleNameField" : null ,
      "nicknameField" : null ,
      "regionField" : null ,
      "serviceBranchField" : null ,
      "userIDField" : null
    }
  } ,
  "userRecordField" :
  [
    {
      "authorizationRoleField" : "Bank" ,
      "bankBranchNameField" : "North Bank Branch" ,
      "bankUserIDField" : "72" ,
      "canTypeField" :
      [
        132
      ] ,
      "creationDateField" : "\/Date(1366218888807)\/" ,
      "customerIDField" : "" ,
      "deletionDateField" : "\/Date(1366218904347)\/" ,
      "enabledEndDateField" : null ,
      "enabledStartDateField" : null ,
      "firstNameField" : "" ,
      "groupNameField" : "" ,

```

```

        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            14 ,
            244 ,
            105
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\Date(1366218888807)\\" ,
        "maximumNumberAllowedCombosField" : "0" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "0" ,
        "regionField" : "KENTUCKY" ,
        "securityLevelField" : "4" ,
        "serviceBranchField" : "" ,
        "totalNumberCombosIssuedField" : "0" ,
        "userComboField" : "-1" ,
        "userIDField" : "BU072" ,
        "window1DurationField" : "0" ,
        "window1StartField" : "0" ,
        "window2DurationField" : "0" ,
        "window2StartField" : "0" ,
        "window3DurationField" : "0" ,
        "window3StartField" : "0"
    } ,
    {
        "authorizationRoleField" : "Bank" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankUserIDField" : "1000" ,
        "canTypeField" :
        [
            24
        ] ,
        "creationDateField" : "\Date(1271940885140)\\" ,
        "customerIDField" : "North Bank" ,
        "deletionDateField" : "\Date(1393957551833)\\" ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : true ,
        "ifWindow1FriField" : true ,
        "ifWindow1MonField" : true ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : true ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : true ,
        "ifWindow2SunField" : true ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : true ,
        "ifWindow3TueField" : false ,
    }

```

```

        "ifWindow3WedField" : true ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            61 ,
            108 ,
            51
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\/Date(1271940885140)\/" ,
        "maximumNumberAllowedCombosField" : "0" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "3" ,
        "regionField" : "KENTUCKY" ,
        "securityLevelField" : "4" ,
        "serviceBranchField" : "" ,
        "totalNumberCombosIssuedField" : "0" ,
        "userComboField" : "-1" ,
        "userIDField" : "BU1000" ,
        "window1DurationField" : "31" ,
        "window1StartField" : "51" ,
        "window2DurationField" : "41" ,
        "window2StartField" : "51" ,
        "window3DurationField" : "51" ,
        "window3StartField" : "61"
    } ,
    {
        "authorizationRoleField" : "Bank" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankUserIDField" : "35" ,
        "canTypeField" :
        [
            132
        ] ,
        "creationDateField" : "\/Date(1380813118437)\/" ,
        "customerIDField" : "" ,
        "deletionDateField" : "\/Date(1380818567510)\/" ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            35 ,
            55 ,
            155
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\/Date(1380813118437)\/" ,
        "maximumNumberAllowedCombosField" : "0" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "0" ,
        "regionField" : "FRANKFORT" ,
        "securityLevelField" : "4" ,
        "serviceBranchField" : "" ,
        "totalNumberCombosIssuedField" : "0" ,
    }

```

```

        "userComboField" : "-1" ,
        "userIDField" : "BU35" ,
        "window1DurationField" : "0" ,
        "window1StartField" : "0" ,
        "window2DurationField" : "0" ,
        "window2StartField" : "0" ,
        "window3DurationField" : "0" ,
        "window3StartField" : "0"
    } ,
    {
        "authorizationRoleField" : "Bank" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankUserIDField" : "36" ,
        "canTypeField" :
        [
            132
        ] ,
        "creationDateField" : "\/Date(1380813188263)\/" ,
        "customerIDField" : "" ,
        "deletionDateField" : "\/Date(1380818586540)\/" ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : false ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : false ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            35 ,
            28 ,
            231
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\/Date(1380813188263)\/" ,
        "maximumNumberAllowedCombosField" : "0" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "0" ,
        "regionField" : "FRANKFORT" ,
        "securityLevelField" : "4" ,
        "serviceBranchField" : "" ,
        "totalNumberCombosIssuedField" : "0" ,
        "userComboField" : "-1" ,
        "userIDField" : "BU36" ,
        "window1DurationField" : "0" ,
        "window1StartField" : "0" ,
        "window2DurationField" : "0" ,
        "window2StartField" : "0" ,
        "window3DurationField" : "0" ,
        "window3StartField" : "0"
    }
}
]
}

```


3.4.14 Web Service User Transactions - User History Table Query Record Count

CenTran Programming Reference Manual

This transaction operates in the same manner as the User Table Query Record Count, but is applied against the User History Table.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user-history/query-count
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user-history/query-count
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_USER_HISTORY_QUERY_COUNT>
  <UserQueryRecord>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ServiceBranch>D</ServiceBranch>
    <!-- date -->
    <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
    <!-- date -->
    <DeletionDateEnd>2007-04-02T16:00:00</DeletionDateEnd>
    <!-- bool -->
    <IfSearchExact>1</IfSearchExact>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_HISTORY_QUERY_COUNT>
```

Output Transaction:

In this transaction, the Search Exact Flag has been set to true and there are no user history records with Service Branch equal to 'D'. Therefore the query count is 0.

```
<RESPONSE_USER_HISTORY_QUERY_COUNT>
  <TRANSACTION_USER_HISTORY_QUERY_COUNT xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UserQueryRecord>
      <CustomerID>ACustomer</CustomerID>
      <ServiceBranch>D</ServiceBranch>
      <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
      <DeletionDateEnd>2007-04-02T16:00:00</DeletionDateEnd>
      <IfSearchExact>1</IfSearchExact>
    </UserQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_HISTORY_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of user history records matching the given query: 0.
    </Description>
  </ResultRecord>
  <QueryCount>0</QueryCount>
</RESPONSE_USER_HISTORY_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran user history table query count transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the user history table for the count of deleted users assigned to bank branch name **North Bank Branch**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/user-history/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/user-history/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "userQueryRecordField" :
  {
    "bankBranchNameField" : "North Bank Branch" ,
    "bankUserIDField" : null ,
    "combosIssuedMaximumField" : null ,
    "combosIssuedMinimumField" : null ,
    "creationDateEndField" : null ,
    "creationDateEndFieldSpecified" : false ,
    "creationDateStartField" : null ,
    "creationDateStartFieldSpecified" : false ,
    "customerIDField" : null ,
    "deletionDateEndField" : null ,
    "deletionDateEndFieldSpecified" : false ,
    "deletionDateStartField" : null ,
    "deletionDateStartFieldSpecified" : false ,
    "enabledEndDateEndField" : null ,
    "enabledEndDateEndFieldSpecified" : false ,
    "enabledEndDateStartField" : null ,
    "enabledEndDateStartFieldSpecified" : false ,
    "enabledStartDateEndField" : null ,
    "enabledStartDateEndFieldSpecified" : false ,
    "enabledStartDateStartField" : null ,
    "enabledStartDateStartFieldSpecified" : false ,
    "firstNameField" : null ,
    "groupNameField" : null ,
    "ifGroupNameAccessCheckField" : false ,
    "ifGroupNameAccessCheckFieldSpecified" : false ,
    "ifHasTimeWindowField" : false ,
    "ifHasTimeWindowFieldSpecified" : false ,
    "ifLegacyImportField" : false ,
    "ifLegacyImportFieldSpecified" : false ,
    "ifPostFixWildCardOnlyField" : false ,
    "ifPostFixWildCardOnlyFieldSpecified" : false ,
    "ifSearchDispatchesExceededField" : false ,
    "ifSearchDispatchesExceededFieldSpecified" : false ,
    "ifSearchEnabledUsersField" : false ,
    "ifSearchEnabledUsersFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "keyIDField" : null ,
    "lastNameField" : null ,
    "lastUsedDateEndField" : null ,
    "lastUsedDateEndFieldSpecified" : false ,
    "lastUsedDateStartField" : null ,
    "lastUsedDateStartFieldSpecified" : false ,
    "listAuthorizationRolesField" : null ,
    "listKeyModelField" : null ,
    "lockSerialNumberField" : null ,
    "middleNameField" : null ,
    "nicknameField" : null ,
    "regionField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "4" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of user records matching the given query: 4."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_USER_HISTORY_QUERY_COUNTField" :
  {

```

```

"dispatcherIDField" : "CentranSS" ,
"userQueryRecordField" :
{
    "bankBranchNameField" : "North Bank Branch" ,
    "bankUserIDField" : null ,
    "combosIssuedMaximumField" : null ,
    "combosIssuedMinimumField" : null ,
    "creationDateEndField" : null ,
    "creationDateEndFieldSpecified" : false ,
    "creationDateStartField" : null ,
    "creationDateStartFieldSpecified" : false ,
    "customerIDField" : null ,
    "deletionDateEndField" : null ,
    "deletionDateEndFieldSpecified" : false ,
    "deletionDateStartField" : null ,
    "deletionDateStartFieldSpecified" : false ,
    "enabledEndDateEndField" : null ,
    "enabledEndDateEndFieldSpecified" : false ,
    "enabledEndDateStartField" : null ,
    "enabledEndDateStartFieldSpecified" : false ,
    "enabledStartDateEndField" : null ,
    "enabledStartDateEndFieldSpecified" : false ,
    "enabledStartDateStartField" : null ,
    "enabledStartDateStartFieldSpecified" : false ,
    "firstNameField" : null ,
    "groupNameField" : null ,
    "ifGroupNameAccessCheckField" : false ,
    "ifGroupNameAccessCheckFieldSpecified" : false ,
    "ifHasTimeWindowField" : false ,
    "ifHasTimeWindowFieldSpecified" : false ,
    "ifLegacyImportField" : false ,
    "ifLegacyImportFieldSpecified" : false ,
    "ifPostFixWildCardOnlyField" : false ,
    "ifPostFixWildCardOnlyFieldSpecified" : false ,
    "ifSearchDispatchesExceededField" : false ,
    "ifSearchDispatchesExceededFieldSpecified" : false ,
    "ifSearchEnabledUsersField" : false ,
    "ifSearchEnabledUsersFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "keyIDField" : null ,
    "lastNameField" : null ,
    "lastUsedDateEndField" : null ,
    "lastUsedDateEndFieldSpecified" : false ,
    "lastUsedDateStartField" : null ,
    "lastUsedDateStartFieldSpecified" : false ,
    "listAuthorizationRolesField" : null ,
    "listKeyModelField" : null ,
    "lockSerialNumberField" : null ,
    "middleNameField" : null ,
    "nicknameField" : null ,
    "regionField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : null
}
}
}

```

3.4.15 Web Service User Transactions - User Archive Table Query

CenTran Programming Reference Manual

This transaction operates in the same manner as the User Table Query, but is applied against the User Archive Table.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user-archive/query
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user-archive/query
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_USER_ARCHIVE_QUERY>
  <UserQueryRecord>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ServiceBranch>Dieb</ServiceBranch>
    <!-- date -->
    <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
    <!-- date -->
    <DeletionDateEnd>2006-04-02T16:00:00</DeletionDateEnd>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_ARCHIVE_QUERY>
```

Output Transaction:

```
<RESPONSE_USER_ARCHIVE_QUERY>
  <TRANSACTION_USER_ARCHIVE_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UserQueryRecord>
      <CustomerID>ACustomer</CustomerID>
      <ServiceBranch>Dieb</ServiceBranch>
      <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
      <DeletionDateEnd>2006-04-02T16:00:00</DeletionDateEnd>
    </UserQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_ARCHIVE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC OK</ErrorCode>
    <Description>User archive record/s found satisfying the search condition.
    </Description>
  </ResultRecord>
  <UserRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <UserID>TestQueryUser1</UserID>
    <Nickname>Qu</Nickname>
    <GroupName>aa</GroupName>
    <KeyID>000000946CD8</KeyID>
    <CanType>04</CanType>
    <SecurityLevel>2</SecurityLevel>
    <NicknameExpirationDate>1969-12-31T23:40:42</NicknameExpirationDate>
    <NumberCombosIssued>3</NumberCombosIssued>
    <NumberTimeWindows>1</NumberTimeWindows>
    <Window1Start>80</Window1Start>
    <Window1Duration>90</Window1Duration>
    <IfWindow1Sun>0</IfWindow1Sun>
    <IfWindow1Mon>1</IfWindow1Mon>
    <IfWindow1Tue>1</IfWindow1Tue>
    <IfWindow1Wed>0</IfWindow1Wed>
    <IfWindow1Thu>0</IfWindow1Thu>
    <IfWindow1Fri>0</IfWindow1Fri>
    <IfWindow1Sat>0</IfWindow1Sat>
    <Window2Start>0</Window2Start>
    <Window2Duration>0</Window2Duration>
    <IfWindow2Sun>0</IfWindow2Sun>
    <IfWindow2Mon>0</IfWindow2Mon>
    <IfWindow2Tue>0</IfWindow2Tue>
    <IfWindow2Wed>0</IfWindow2Wed>
    <IfWindow2Thu>0</IfWindow2Thu>
    <IfWindow2Fri>0</IfWindow2Fri>
    <IfWindow2Sat>0</IfWindow2Sat>
    <Window3Start>0</Window3Start>
    <Window3Duration>0</Window3Duration>
    <IfWindow3Sun>0</IfWindow3Sun>
    <IfWindow3Mon>0</IfWindow3Mon>
    <IfWindow3Tue>0</IfWindow3Tue>
    <IfWindow3Wed>0</IfWindow3Wed>
    <IfWindow3Thu>0</IfWindow3Thu>
    <IfWindow3Fri>0</IfWindow3Fri>
    <IfWindow3Sat>0</IfWindow3Sat>
    <CreationDate>2004-12-22T15:49:18</CreationDate>
    <DeletionDate>2005-12-22T15:49:18</DeletionDate>
    <UserPassword />
    <Region>TestRegionD</Region>
```

```

<ServiceBranch>Dieb</ServiceBranch>
<FirstName>Query</FirstName>
<MiddleName>Q</MiddleName>
<LastName>User</LastName>
<LastUsedDate>2005-04-01T17:19:52</LastUsedDate>
<AuthorizationRole>Route</AuthorizationRole>
<BankUserID>0</BankUserID>
<TotalNumberCombosIssued>0</TotalNumberCombosIssued>
<MaximumNumberAllowedCombos>0</MaximumNumberAllowedCombos>
<EnabledStartDate xsi:nil="true" />
<EnabledEndDate xsi:nil="true" />
<BankBranchName />
<CustomerID>ACustomer</CustomerID>
<UserCombo>0</UserCombo>
<IfMustChangeCombo>1</IfMustChangeCombo>
</UserRecord>
</RESPONSE_USER_ARCHIVE_QUERY>

```

Example 2 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user-archive/query
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user-archive/query
```

Input Transaction: (HTTP Body)

```

<TRANSACTION_USER_ARCHIVE_QUERY>
  <UserQueryRecord>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ServiceBranch>Dieb</ServiceBranch>
    <!-- date -->
    <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
    <!-- date -->
    <DeletionDateEnd>2006-04-02T16:00:00</DeletionDateEnd>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>SuperUserLocalRegion</DispatcherID>
</TRANSACTION_USER_ARCHIVE_QUERY>

```

Output Transaction:

The dispatcher's region is local in scope and does not match the region of the user TestQueryUser1 (see example 1). Therefore no records are returned by the search query.

```

<RESPONSE_USER_ARCHIVE_QUERY>
  <TRANSACTION_USER_ARCHIVE_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UserQueryRecord>
      <CustomerID>ACustomer</CustomerID>
      <ServiceBranch>Dieb</ServiceBranch>
      <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
      <DeletionDateEnd>2006-04-02T16:00:00</DeletionDateEnd>
    </UserQueryRecord>
    <DispatcherID>SuperUserLocalRegion</DispatcherID>
  </TRANSACTION_USER_ARCHIVE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>No user archive record found satisfying the search condition.
  </Description>
  </ResultRecord>
</RESPONSE_USER_ARCHIVE_QUERY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran user archive table query transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example queries the user archive table for deleted users named **testp2**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/user-archive/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/user-archive/query
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "userQueryRecordField" :
  {
    "bankBranchNameField" : null ,
    "bankUserIDField" : null ,
    "combosIssuedMaximumField" : null ,
    "combosIssuedMinimumField" : null ,
    "creationDateEndField" : null ,
    "creationDateEndFieldSpecified" : false ,
    "creationDateStartField" : null ,
    "creationDateStartFieldSpecified" : false ,
    "customerIDField" : null ,
    "deletionDateEndField" : null ,
    "deletionDateEndFieldSpecified" : false ,
    "deletionDateStartField" : null ,
    "deletionDateStartFieldSpecified" : false ,
    "enabledEndDateEndField" : null ,
    "enabledEndDateEndFieldSpecified" : false ,
    "enabledEndDateStartField" : null ,
    "enabledEndDateStartFieldSpecified" : false ,
    "enabledStartDateEndField" : null ,
    "enabledStartDateEndFieldSpecified" : false ,
    "enabledStartDateStartField" : null ,
    "enabledStartDateStartFieldSpecified" : false ,
    "firstNameField" : null ,
    "groupNameField" : null ,
    "ifGroupNameAccessCheckField" : false ,
    "ifGroupNameAccessCheckFieldSpecified" : false ,
    "ifHasTimeWindowField" : false ,
    "ifHasTimeWindowFieldSpecified" : false ,
    "ifLegacyImportField" : false ,
    "ifLegacyImportFieldSpecified" : false ,
    "ifPostFixWildCardOnlyField" : false ,
    "ifPostFixWildCardOnlyFieldSpecified" : false ,
    "ifSearchDispatchesExceededField" : false ,
    "ifSearchDispatchesExceededFieldSpecified" : false ,
    "ifSearchEnabledUsersField" : false ,
    "ifSearchEnabledUsersFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "keyIDField" : null ,
    "lastNameField" : null ,
    "lastUsedDateEndField" : null ,
    "lastUsedDateEndFieldSpecified" : false ,
    "lastUsedDateStartField" : null ,
    "lastUsedDateStartFieldSpecified" : false ,
    "listAuthorizationRolesField" : null ,
    "listKeyModelField" : null ,
    "lockSerialNumberField" : null ,
    "middleNameField" : null ,
    "nicknameField" : null ,
    "regionField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : "testp2"
  }
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of user records matching the given query: 5."
    ]
  }
}
```

```

    ],
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"TRANSACTION_USER_ARCHIVE_QUERYField" :
{
    "dispatcherIDField" : "CentranSS" ,
    "userQueryRecordField" :
    {
        "bankBranchNameField" : null ,
        "bankUserIDField" : null ,
        "combosIssuedMaximumField" : null ,
        "combosIssuedMinimumField" : null ,
        "creationDateEndField" : null ,
        "creationDateEndFieldSpecified" : false ,
        "creationDateStartField" : null ,
        "creationDateStartFieldSpecified" : false ,
        "customerIDField" : null ,
        "deletionDateEndField" : null ,
        "deletionDateEndFieldSpecified" : false ,
        "deletionDateStartField" : null ,
        "deletionDateStartFieldSpecified" : false ,
        "enabledEndDateEndField" : null ,
        "enabledEndDateEndFieldSpecified" : false ,
        "enabledEndDateStartField" : null ,
        "enabledEndDateStartFieldSpecified" : false ,
        "enabledStartDateEndField" : null ,
        "enabledStartDateEndFieldSpecified" : false ,
        "enabledStartDateStartField" : null ,
        "enabledStartDateStartFieldSpecified" : false ,
        "firstNameField" : null ,
        "groupNameField" : null ,
        "ifGroupNameAccessCheckField" : false ,
        "ifGroupNameAccessCheckFieldSpecified" : false ,
        "ifHasTimeWindowField" : false ,
        "ifHasTimeWindowFieldSpecified" : false ,
        "ifLegacyImportField" : false ,
        "ifLegacyImportFieldSpecified" : false ,
        "ifPostFixWildCardOnlyField" : false ,
        "ifPostFixWildCardOnlyFieldSpecified" : false ,
        "ifSearchDispatchesExceededField" : false ,
        "ifSearchDispatchesExceededFieldSpecified" : false ,
        "ifSearchEnabledUsersField" : false ,
        "ifSearchEnabledUsersFieldSpecified" : false ,
        "ifSearchExactField" : false ,
        "ifSearchExactFieldSpecified" : false ,
        "keyIDField" : null ,
        "lastNameField" : null ,
        "lastUsedDateEndField" : null ,
        "lastUsedDateEndFieldSpecified" : false ,
        "lastUsedDateStartField" : null ,
        "lastUsedDateStartFieldSpecified" : false ,
        "listAuthorizationRolesField" : null ,
        "listKeyModelField" : null ,
        "lockSerialNumberField" : null ,
        "middleNameField" : null ,
        "nicknameField" : null ,
        "regionField" : null ,
        "serviceBranchField" : null ,
        "userIDField" : "testp2"
    }
} ,
"userRecordField" :
[
    {
        "authorizationRoleField" : "Dispatcher" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "1246576928" ,
        "canTypeField" :
        [
            4
        ] ,
        "creationDateField" : "\\Date(1182426624000)\" ,
        "customerIDField" : "" ,
        "deletionDateField" : "\\Date(1184073371000)\" ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "112233" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : true ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : true ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
    }
]

```

```

        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : true ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : true ,
        "ifWindow3TueField" : true ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            24 ,
            22 ,
            22
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\\Date(1182426624000)\\/" ,
        "maximumNumberAllowedCombosField" : "20" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "3" ,
        "regionField" : "Testing" ,
        "securityLevelField" : "8" ,
        "serviceBranchField" : "123456" ,
        "totalNumberCombosIssuedField" : "1246576928" ,
        "userComboField" : "0" ,
        "userIDField" : "testp2" ,
        "window1DurationField" : "10" ,
        "window1StartField" : "10" ,
        "window2DurationField" : "10" ,
        "window2StartField" : "20" ,
        "window3DurationField" : "10" ,
        "window3StartField" : "30"
    } ,
    {
        "authorizationRoleField" : "Dispatcher" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "1246576928" ,
        "canTypeField" :
        [
            4
        ] ,
        "creationDateField" : "\\Date(1184073371000)\\/" ,
        "customerIDField" : "" ,
        "deletionDateField" : "\\Date(1184073428000)\\/" ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "112233" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : true ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : true ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : true ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : true ,
        "ifWindow3TueField" : true ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            24 ,
            22 ,
            22
        ] ,
    } ,

```

```

        "lastNameField" : "" ,
        "lastUsedDateField" : "\Date(1184073371000)\/" ,
        "maximumNumberAllowedCombosField" : "20" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "3" ,
        "regionField" : "Testing" ,
        "securityLevelField" : "8" ,
        "serviceBranchField" : "123456" ,
        "totalNumberCombosIssuedField" : "1246576928" ,
        "userComboField" : "0" ,
        "userIDField" : "testp2" ,
        "window1DurationField" : "10" ,
        "window1StartField" : "10" ,
        "window2DurationField" : "10" ,
        "window2StartField" : "20" ,
        "window3DurationField" : "10" ,
        "window3StartField" : "30"
    } ,
    {
        "authorizationRoleField" : "Dispatcher" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "1246576928" ,
        "canTypeField" :
        [
            4
        ] ,
        "creationDateField" : "\Date(1184073428000)\/" ,
        "customerIDField" : "" ,
        "deletionDateField" : "\Date(1184073535000)\/" ,
        "enabledEndDateField" : null ,
        "enabledStartDateField" : null ,
        "firstNameField" : "" ,
        "groupNameField" : "112233" ,
        "ifLegacyImportField" : false ,
        "ifMustChangeComboField" : false ,
        "ifWindow1FriField" : false ,
        "ifWindow1MonField" : false ,
        "ifWindow1SatField" : false ,
        "ifWindow1SunField" : true ,
        "ifWindow1ThuField" : false ,
        "ifWindow1TueField" : true ,
        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : true ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : true ,
        "ifWindow3TueField" : true ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            24 ,
            22 ,
            22
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\Date(1184073428000)\/" ,
        "maximumNumberAllowedCombosField" : "20" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "3" ,
        "regionField" : "Testing" ,
        "securityLevelField" : "8" ,
        "serviceBranchField" : "123456" ,
        "totalNumberCombosIssuedField" : "1246576928" ,
        "userComboField" : "0" ,
        "userIDField" : "testp2" ,
        "window1DurationField" : "10" ,
        "window1StartField" : "10" ,
        "window2DurationField" : "10" ,
        "window2StartField" : "20" ,
        "window3DurationField" : "10" ,
        "window3StartField" : "30"
    } ,
    {

```



```

"authorizationRoleField" : "Dispatcher" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"canTypeField" :
[
    4
] ,
"creationDateField" : "\Date(1184073535000)\/" ,
"customerIDField" : "" ,
"deletionDateField" : "\Date(1277308556557)\/" ,
"enabledEndDateField" : null ,
"enabledStartDateField" : null ,
"firstNameField" : "" ,
"groupNameField" : "112233" ,
"ifLegacyImportField" : false ,
"ifMustChangeComboField" : true ,
"ifWindow1FriField" : false ,
"ifWindow1MonField" : false ,
"ifWindow1SatField" : false ,
"ifWindow1SunField" : true ,
"ifWindow1ThuField" : false ,
"ifWindow1TueField" : true ,
"ifWindow1WedField" : false ,
"ifWindow2FriField" : false ,
"ifWindow2MonField" : false ,
"ifWindow2SatField" : false ,
"ifWindow2SunField" : false ,
"ifWindow2ThuField" : false ,
"ifWindow2TueField" : false ,
"ifWindow2WedField" : true ,
"ifWindow3FriField" : false ,
"ifWindow3MonField" : false ,
"ifWindow3SatField" : false ,
"ifWindow3SunField" : false ,
"ifWindow3ThuField" : true ,
"ifWindow3TueField" : true ,
"ifWindow3WedField" : false ,
"keyIDField" :
[
    0 ,
    0 ,
    0 ,
    24 ,
    22 ,
    22
] ,
"lastNameField" : "" ,
"lastUsedDateField" : "\Date(1184073535000)\/" ,
"maximumNumberAllowedCombosField" : "0" ,
"middleNameField" : "" ,
"nicknameExpirationDateField" : null ,
"nicknameField" : "" ,
"numberCombosIssuedField" : "0" ,
"numberTimeWindowsField" : "3" ,
"regionField" : "Kentucky" ,
"securityLevelField" : "8" ,
"serviceBranchField" : "123456" ,
"totalNumberCombosIssuedField" : "0" ,
"userComboField" : "0" ,
"userIDField" : "testp2" ,
>window1DurationField" : "10" ,
>window1StartField" : "10" ,
>window2DurationField" : "10" ,
>window2StartField" : "20" ,
>window3DurationField" : "10" ,
>window3StartField" : "30"
} ,
{
    "authorizationRoleField" : "FLM" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "1246576928" ,
    "canTypeField" :
    [
        4
    ] ,
    "creationDateField" : "\Date(1182431620000)\/" ,
    "customerIDField" : "" ,
    "deletionDateField" : "\Date(1182956483000)\/" ,
    "enabledEndDateField" : null ,
    "enabledStartDateField" : null ,
    "firstNameField" : "" ,
    "groupNameField" : "" ,
    "ifLegacyImportField" : false ,
    "ifMustChangeComboField" : false ,
    "ifWindow1FriField" : false ,
    "ifWindow1MonField" : false ,
    "ifWindow1SatField" : false ,
    "ifWindow1SunField" : false ,
    "ifWindow1ThuField" : false ,
    "ifWindow1TueField" : false ,

```

```

        "ifWindow1WedField" : false ,
        "ifWindow2FriField" : false ,
        "ifWindow2MonField" : false ,
        "ifWindow2SatField" : false ,
        "ifWindow2SunField" : false ,
        "ifWindow2ThuField" : false ,
        "ifWindow2TueField" : false ,
        "ifWindow2WedField" : false ,
        "ifWindow3FriField" : false ,
        "ifWindow3MonField" : false ,
        "ifWindow3SatField" : false ,
        "ifWindow3SunField" : false ,
        "ifWindow3ThuField" : false ,
        "ifWindow3TueField" : false ,
        "ifWindow3WedField" : false ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            36 ,
            22 ,
            22
        ] ,
        "lastNameField" : "" ,
        "lastUsedDateField" : "\\Date(1182431620000)\\/" ,
        "maximumNumberAllowedCombosField" : "1246576928" ,
        "middleNameField" : "" ,
        "nicknameExpirationDateField" : null ,
        "nicknameField" : "" ,
        "numberCombosIssuedField" : "0" ,
        "numberTimeWindowsField" : "0" ,
        "regionField" : "NewRegion" ,
        "securityLevelField" : "1" ,
        "serviceBranchField" : "" ,
        "totalNumberCombosIssuedField" : "1246576928" ,
        "userComboField" : "0" ,
        "userIDField" : "testp2ee" ,
        "window1DurationField" : "0" ,
        "window1StartField" : "0" ,
        "window2DurationField" : "0" ,
        "window2StartField" : "0" ,
        "window3DurationField" : "0" ,
        "window3StartField" : "0"
    }
}
}

```

3.4.16 Web Service User Transactions - User Archive Table Query Record Count

CenTran Programming Reference Manual

This transaction operates in the same manner as the User Table Query Record Count, but is applied against the User Archive Table.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/user-archive/query-count
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/user-archive/query-count
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_USER_ARCHIVE_QUERY_COUNT>
  <UserQueryRecord>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ServiceBranch>Dieb</ServiceBranch>
    <!-- date -->
    <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
    <!-- date -->
    <DeletionDateEnd>2006-04-02T16:00:00</DeletionDateEnd>
  </UserQueryRecord>
  <!-- char string -->
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_USER_ARCHIVE_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_USER_ARCHIVE_QUERY_COUNT>
  <TRANSACTION_USER_ARCHIVE_QUERY_COUNT xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <UserQueryRecord>
      <CustomerID>ACustomer</CustomerID>
      <ServiceBranch>Dieb</ServiceBranch>
      <DeletionDateStart>2005-03-01T15:00:00</DeletionDateStart>
      <DeletionDateEnd>2006-04-02T16:00:00</DeletionDateEnd>
    </UserQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_USER_ARCHIVE_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of user archive records matching the given query: 1.
  </Description>
  </ResultRecord>
  <QueryCount>1</QueryCount>
</RESPONSE_USER_ARCHIVE_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran user archive table query count transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the user archive table for the count of deleted users named **testp2**.

Input Transaction Format (HTTP Post) - JSON:

https://{host}/CentranServiceJSON/rest/user-archive/query-count

Example Input Transaction (HTTP Post) - JSON:

https://kml-3242.domain.local/CentranServiceJSON/rest/user-archive/query-count

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "userQueryRecordField" :
  {
    "bankBranchNameField" : null ,
    "bankUserIDField" : null ,
    "combosIssuedMaximumField" : null ,
    "combosIssuedMinimumField" : null ,
    "creationDateEndField" : null ,
    "creationDateEndFieldSpecified" : false ,
    "creationDateStartField" : null ,
    "creationDateStartFieldSpecified" : false ,
    "customerIDField" : null ,
    "deletionDateEndField" : null ,
    "deletionDateEndFieldSpecified" : false ,
    "deletionDateStartField" : null ,
    "deletionDateStartFieldSpecified" : false ,
    "enabledEndDateEndField" : null ,
    "enabledEndDateEndFieldSpecified" : false ,
    "enabledEndDateStartField" : null ,
    "enabledEndDateStartFieldSpecified" : false ,
    "enabledStartDateEndField" : null ,
    "enabledStartDateEndFieldSpecified" : false ,
    "enabledStartDateStartField" : null ,
    "enabledStartDateStartFieldSpecified" : false ,
    "firstNameField" : null ,
    "groupNameField" : null ,
    "ifGroupNameAccessCheckField" : false ,
    "ifGroupNameAccessCheckFieldSpecified" : false ,
    "ifHasTimeWindowField" : false ,
    "ifHasTimeWindowFieldSpecified" : false ,
    "ifLegacyImportField" : false ,
    "ifLegacyImportFieldSpecified" : false ,
    "ifPostFixWildCardOnlyField" : false ,
    "ifPostFixWildCardOnlyFieldSpecified" : false ,
    "ifSearchDispatchesExceededField" : false ,
    "ifSearchDispatchesExceededFieldSpecified" : false ,
    "ifSearchEnabledUsersField" : false ,
    "ifSearchEnabledUsersFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "keyIDField" : null ,
    "lastNameField" : null ,
    "lastUsedDateEndField" : null ,
    "lastUsedDateEndFieldSpecified" : false ,
    "lastUsedDateStartField" : null ,
    "lastUsedDateStartFieldSpecified" : false ,
    "listAuthorizationRolesField" : null ,
    "listKeyModelField" : null ,
    "lockSerialNumberField" : null ,
    "middleNameField" : null ,
    "nicknameField" : null ,
    "regionField" : null ,
    "serviceBranchField" : null ,
    "userIDField" : "testp2"
  }
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "5" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of user records matching the given query: 5."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "TRANSACTION_USER_ARCHIVE_QUERY_COUNTField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "userQueryRecordField" :
    {
      "bankBranchNameField" : null ,
      "bankUserIDField" : null ,
      "combosIssuedMaximumField" : null ,
      "combosIssuedMinimumField" : null ,

```

```

"creationDateEndField" : null ,
"creationDateEndFieldSpecified" : false ,
"creationDateStartField" : null ,
"creationDateStartFieldSpecified" : false ,
"customerIDField" : null ,
"deletionDateEndField" : null ,
"deletionDateEndFieldSpecified" : false ,
"deletionDateStartField" : null ,
"deletionDateStartFieldSpecified" : false ,
"enabledEndDateEndField" : null ,
"enabledEndDateEndFieldSpecified" : false ,
"enabledEndDateStartField" : null ,
"enabledEndDateStartFieldSpecified" : false ,
"enabledStartDateEndField" : null ,
"enabledStartDateEndFieldSpecified" : false ,
"enabledStartDateStartField" : null ,
"enabledStartDateStartFieldSpecified" : false ,
"firstNameField" : null ,
"groupNameField" : null ,
"ifGroupNameAccessCheckField" : false ,
"ifGroupNameAccessCheckFieldSpecified" : false ,
"ifHasTimeWindowField" : false ,
"ifHasTimeWindowFieldSpecified" : false ,
"ifLegacyImportField" : false ,
"ifLegacyImportFieldSpecified" : false ,
"ifPostFixWildCardOnlyField" : false ,
"ifPostFixWildCardOnlyFieldSpecified" : false ,
"ifSearchDispatchesExceededField" : false ,
"ifSearchDispatchesExceededFieldSpecified" : false ,
"ifSearchEnabledUsersField" : false ,
"ifSearchEnabledUsersFieldSpecified" : false ,
"ifSearchExactField" : false ,
"ifSearchExactFieldSpecified" : false ,
"keyIDField" : null ,
"lastNameField" : null ,
"lastUsedDateEndField" : null ,
"lastUsedDateEndFieldSpecified" : false ,
"lastUsedDateStartField" : null ,
"lastUsedDateStartFieldSpecified" : false ,
"listAuthorizationRolesField" : null ,
"listKeyModelField" : null ,
"lockSerialNumberField" : null ,
"middleNameField" : null ,
"nicknameField" : null ,
"regionField" : null ,
"serviceBranchField" : null ,
"userIDField" : "testp2"
}
}
}

```

3.5.1 Web Service Customer Transactions - Add Customer

CenTran Programming Reference Manual

This transaction adds a customer to the database.

Transaction information required:

- Customer ID
- Customer Number (Optional)
- Name (Optional)
- Address 1 (Optional)
- Address 2 (Optional)
- City (Optional)
- State (Optional)
- ZIP Code (Optional)
- Service Branch (Optional)
- Line Branch (Optional)
- Country (Optional)
- Telephone Number (Optional)
- FAX Number (Optional)
- Cell Phone Number (Optional)
- Point Of Contact Information (Optional)
- Email Information (Optional)
- Description (Optional)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Customer ID
- Customer already exists but the flag to allow overwrite is not set
- Not authorized due to authorization role

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/customer/add
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/customer/add
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_ADD_CUSTOMER>
  <CustomerRecord>
    <CustomerID>3rd Eastern Regional Bank</CustomerID>
    <CustomerNumber>123322</CustomerNumber>
    <CustomerName>AG</CustomerName>
    <CustomerAddress1>810 Transcript Ave</CustomerAddress1>
    <CustomerAddress2>Suite #14</CustomerAddress2>
    <CustomerCity>Lexington</CustomerCity>
    <CustomerState>KY</CustomerState>
    <CustomerZIP>40508</CustomerZIP>
    <ServiceBranch>Newton Pike</ServiceBranch>
    <LineBranch>Pike Newton</LineBranch>
    <CustomerCountry>US</CustomerCountry>
    <Telephone>(234) 123-4567</Telephone>
    <Fax>(234) 123-1234</Fax>
    <Cell>(123) 123-1234</Cell>
    <PointOfContact>Kaba Mas</PointOfContact>
    <Email>abc@kml.kaba.com</Email>
    <Description>Customer Example</Description>
  </CustomerRecord>
  <DispatcherID/>
</TRANSACTION_ADD_CUSTOMER>
```

Output Transaction:

The customer is added successfully to the customer table in the database. The output transaction has the original input transaction (TRANSACTION_ADD_CUSTOMER) and a result record (indicating success).

```
<RESPONSE_ADD_CUSTOMER>
  <TRANSACTION_ADD_CUSTOMER>
    <CustomerRecord>
      <CustomerID>3rd Eastern Regional Bank</CustomerID>
      <CustomerNumber>123322</CustomerNumber>
      <CustomerName>AG</CustomerName>
```

```

        <CustomerAddress1>810 Transcript Ave</CustomerAddress1>
        <CustomerAddress2>Suite #14</CustomerAddress2>
        <CustomerCity>Lexington</CustomerCity>
        <CustomerState>KY</CustomerState>
        <CustomerZIP>40508</CustomerZIP>
        <ServiceBranch>Newton Pike</ServiceBranch>
        <LineBranch>Pike Newton</LineBranch>
        <CustomerCountry>US</CustomerCountry>
        <Telephone>(234) 123-4567</Telephone>
        <Fax>(234) 123-1234</Fax>
        <Cell>(123) 123-1234</Cell>
        <PointOfContact>Kaba Mas</PointOfContact>
        <Email>abc@kml.kaba.com</Email>
        <Description>Customer Example</Description>
    </CustomerRecord>
    <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_ADD_CUSTOMER>
<ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Customer 3rd Eastern Regional Bank successfully added to the database.
</Description>
</ResultRecord>
</RESPONSE_ADD_CUSTOMER>

```

Example 2 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/customer/add
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/customer/add
```

Input Transaction: (HTTP Body)

```

<TRANSACTION_ADD_CUSTOMER>
  <CustomerRecord>
    <CustomerID>123456789</CustomerID>
    <CustomerNumber>777</CustomerNumber>
    <CustomerName>AG</CustomerName>
    <CustomerAddress1>888 Press Avenue</CustomerAddress1>
    <CustomerAddress2>Apt 121</CustomerAddress2>
    <CustomerCity>Lexington</CustomerCity>
    <CustomerState>KY</CustomerState>
    <CustomerZIP>40508</CustomerZIP>
    <ServiceBranch>Newton Pike</ServiceBranch>
    <LineBranch>Pike Newton</LineBranch>
    <CustomerCountry>US</CustomerCountry>
    <Telephone>(234) 123-4567</Telephone>
    <Fax>(234) 123-1234</Fax>
    <Cell>(123) 123-1234</Cell>
    <PointOfContact>Mas Hamilton</PointOfContact>
    <Email>abc@kml.kaba.com</Email>
    <Description>Attempt at adding/updating customer record</Description>
  </CustomerRecord>
  <DispatcherID/>
</TRANSACTION_ADD_CUSTOMER>

```

Output Transaction:

In this example, Customer ID 123456789 already exists in the customer table but the overwrite flag is not set and therefore the transaction fails.

```

<RESPONSE_ADD_CUSTOMER>
  <TRANSACTION_ADD_CUSTOMER>
    <CustomerRecord>
      <CustomerID>123456789</CustomerID>
      <CustomerNumber>777</CustomerNumber>
      <CustomerName>AG</CustomerName>
      <CustomerAddress1>888 Press Avenue</CustomerAddress1>
      <CustomerAddress2>Apt 121</CustomerAddress2>
      <CustomerCity>Lexington</CustomerCity>
      <CustomerState>KY</CustomerState>
      <CustomerZIP>40508</CustomerZIP>
      <ServiceBranch>Newton Pike</ServiceBranch>
      <LineBranch>Pike Newton</LineBranch>
      <CustomerCountry>US</CustomerCountry>
      <Telephone>(234) 123-4567</Telephone>
      <Fax>(234) 123-1234</Fax>
      <Cell>(123) 123-1234</Cell>
      <PointOfContact>Mas Hamilton</PointOfContact>
      <Email>abc@kml.kaba.com</Email>
      <Description>Attempt at adding/updating customer record</Description>
    </CustomerRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_CUSTOMER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_FAILED_ADD_CUSTOMER_ALREADY_EXISTS</ErrorCode>

```

```

<IfRetryValid>false</IfRetryValid>
<Description>Customer 123456789 already exists.</Description>
</ResultRecord>
</RESPONSE_ADD_CUSTOMER>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran add customer transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example adds a customer named **My New Customer**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/customer/add
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/customer/add
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "customerRecordField" :
  {
    "cellField" : "859-253-4744" ,
    "customerAddress1Field" : "749 W. Short Street" ,
    "customerAddress2Field" : null ,
    "customerCityField" : "Lexington" ,
    "customerCountryField" : "USA" ,
    "customerIDField" : "My New Customer" ,
    "customerNameField" : "New Customer LLC" ,
    "customerNumberField" : "123443" ,
    "customerStateField" : "KY" ,
    "customerZIPField" : "40507" ,
    "descriptionField" : "New Cencon Customer " ,
    "emailField" : "newcustomer@kml.kaba.com" ,
    "faxField" : "859-253-4748" ,
    "lineBranchField" : "North Bank Line Branch" ,
    "pointOfContactField" : "Fred at North Bank" ,
    "serviceBranchField" : "North Bank Service Branch" ,
    "telephoneField" : "859-253-4744"
  } ,
  "dispatcherIDField" : null
}

```

Example Output Transaction - JSON:

```

{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Customer My New Customer successfully added to the database."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_ADD_CUSTOMERField" :
  {
    "customerRecordField" :
    {
      "cellField" : "859-253-4744" ,

```



```

        "customerAddress1Field" : "749 W. Short Street" ,
        "customerAddress2Field" : null ,
        "customerCityField" : "Lexington" ,
        "customerCountryField" : "USA" ,
        "customerIDField" : "My New Customer" ,
        "customerNameField" : "New Customer LLC" ,
        "customerNumberField" : "123443" ,
        "customerStateField" : "KY" ,
        "customerZIPField" : "40507" ,
        "descriptionField" : "New Cencon Customer " ,
        "emailField" : "newcustomer@kml.kaba.com" ,
        "faxField" : "859-253-4748" ,
        "lineBranchField" : "North Bank Line Branch" ,
        "pointOfContactField" : "Fred at North Bank" ,
        "serviceBranchField" : "North Bank Service Branch" ,
        "telephoneField" : "859-253-4744"
    } ,
    "dispatcherIDField" : "CentranSS"
}

```

3.5.2 Web Service Customer Transactions - Read Customer

CenTran Programming Reference Manual

This transaction reads a customer from the database.

Transaction information required:

- Customer ID

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the customer record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Customer does not exist
- Not authorized due to authorization role

Example 1 - Success

Input Transaction Format: (HTTP Get)

```
https://{host}/CentranService/rest/customer/{customerid}/data
```

Example Input Transaction: (HTTP Get)

```
https://kml-3242.domain.local/CentranService/rest/customer/3rd Eastern Regional Bank/data
```

Output Transaction:

```
<RESPONSE_READ_CUSTOMER>
  <TRANSACTION_READ_CUSTOMER>
    <CustomerID>3rd Eastern Regional Bank</CustomerID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_CUSTOMER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Success</Description>
  </ResultRecord>
  <CustomerRecord>
    <CustomerID>3rd Eastern Regional Bank</CustomerID>
    <CustomerNumber>123322</CustomerNumber>
    <CustomerName>AG</CustomerName>
    <CustomerAddress1>810 Transcript Ave</CustomerAddress1>
    <CustomerAddress2>Suite #14</CustomerAddress2>
    <CustomerCity>Lexington</CustomerCity>
    <CustomerState>KY</CustomerState>
    <CustomerZIP>40508</CustomerZIP>
    <ServiceBranch>Newton Pike</ServiceBranch>
    <LineBranch>Pike Newton</LineBranch>
    <CustomerCountry>US</CustomerCountry>
    <Telephone>(234) 123-4567</Telephone>
    <Fax>(234) 123-1234</Fax>
    <Cell>(123) 123-1234</Cell>
    <PointOfContact>Kaba Mas</PointOfContact>
    <Email>abc@kml.kaba.com</Email>
    <Description>Customer Example</Description>
  </CustomerRecord>
</RESPONSE_READ_CUSTOMER>
```

Example 2 - Failure

Input Transaction Format: (HTTP Get)

```
https://{host}/CentranService/rest/customer/{customerid}/data
```

Example Input Transaction: (HTTP Get)

```
https://kml-3242.domain.local/CentranService/rest/customer/NoCustomer/data
```

Output Transaction:

Here, customer id **NoCustomer** does not exist in the Cencon database customer table.

```
<RESPONSE_READ_CUSTOMER>
  <TRANSACTION_READ_CUSTOMER>
    <CustomerID>NoCustomer</CustomerID>
```

```

    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_CUSTOMER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_CUSTOMER_NOT_FOUND</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to find the customer in the database customer table. The customer
    ID is not in the database customer table.</Description>
  </ResultRecord>
</RESPONSE_READ_CUSTOMER>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read customer transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example reads the customer named **My New Customer** from the customer table. Note that spaces are encoded as **%20** in URLs.

Input Transaction Format (HTTP Get) - JSON:

```
https://{host}/CentranServiceJSON/rest/customer/{customerid}/data
```

Example Input Transaction (HTTP Get) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/customer/My%20New%20Customer/data
```

Example Output Transaction - JSON:

```

{
  "customerRecordField" :
  {
    "cellField" : "859-253-4744" ,
    "customerAddress1Field" : "749 W. Short Street" ,
    "customerAddress2Field" : "" ,
    "customerCityField" : "Lexington" ,
    "customerCountryField" : "USA" ,
    "customerIDField" : "My New Customer" ,
    "customerNameField" : "New Customer LLC" ,
    "customerNumberField" : "123443" ,
    "customerStateField" : "KY" ,
    "customerZIPField" : "40507" ,
    "descriptionField" : "New Cencon Customer" ,
    "emailField" : "newcustomer@kml.kaba.com" ,
    "faxField" : "859-253-4748" ,
    "lineBranchField" : "North Bank Line Branch" ,
    "pointOfContactField" : "Fred at North Bank" ,
    "serviceBranchField" : "North Bank Service Branch" ,
    "telephoneField" : "859-253-4744"
  } ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Success"
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_READ_CUSTOMERField" :
  {
    "customerIDField" : "My New Customer" ,
    "dispatcherIDField" : "CentranSS"
  }
}

```

}

3.5.3 Web Service Customer Transactions - Update Customer

CenTran Programming Reference Manual

This transaction updates data for an existing customer in the database. The customer fields to be updated have to be specified in the input transaction. Those customer fields that are not specified in the input transaction will not be changed from their current values.

Transaction information required:

- Customer ID
- Customer Number (Optional) – The new value for this field
- Name (Optional) – The new value for this field
- Address 1 (Optional) – The new value for this field
- Address 2 (Optional) – The new value for this field
- City (Optional) – The new value for this field
- State (Optional) – The new value for this field
- ZIP Code (Optional) – The new value for this field
- Service Branch (Optional) – The new value for this field
- Line Branch (Optional) – The new value for this field
- Country (Optional) – The new value for this field
- Telephone Number (Optional) – The new value for this field
- FAX Number (Optional) – The new value for this field
- Cell Phone Number (Optional) – The new value for this field
- Point Of Contact Information (Optional) – The new value for this field
- Email Information (Optional) – The new value for this field
- Description (Optional) – The new value for this field

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the updated customer record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Customer ID
- Customer does not exist
- Not authorized due to authorization role

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/customer/update
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/customer/update
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_UPDATE_CUSTOMER>
  <UpdateCustomerRecord>
    <CustomerCountry>USA</CustomerCountry>
    <CustomerZIP>40203</CustomerZIP>
    <CustomerState>KY</CustomerState>
    <CustomerCity>Louisville</CustomerCity>
    <CustomerAddress2>Suite #30</CustomerAddress2>
    <CustomerAddress1>809 Transcript Ave</CustomerAddress1>
    <CustomerNumber>123456</CustomerNumber>
    <CustomerID>123456789</CustomerID>
  </UpdateCustomerRecord>
  <DispatcherID/>
</TRANSACTION_UPDATE_CUSTOMER>
```

Output Transaction:

The output transaction has the original input transaction (TRANSACTION_UPDATE_CUSTOMER), a result record (indicating success) and the updated customer record with new Customer Number, Address 1, Address 2, City, State, ZIP, and Country values.

```
<RESPONSE_UPDATE_CUSTOMER>
  <TRANSACTION_UPDATE_CUSTOMER>
    <UpdateCustomerRecord>
      <CustomerCountry>USA</CustomerCountry>
      <CustomerZIP>40203</CustomerZIP>
      <CustomerState>KY</CustomerState>
      <CustomerCity>Louisville</CustomerCity>
      <CustomerAddress2>Suite #30</CustomerAddress2>
      <CustomerAddress1>809 Transcript Ave</CustomerAddress1>
      <CustomerNumber>123456</CustomerNumber>
      <CustomerID>123456789</CustomerID>
    </UpdateCustomerRecord>
```

```

    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_CUSTOMER>
</ResultRecord>
  <Result>Success</Result>
  <ErrorCode>RC_OK</ErrorCode>
  <IfRetryValid>false</IfRetryValid>
  <Description>Customer 123456789 successfully updated in the database.</Description>
</ResultRecord>
<CustomerRecord>
  <CustomerID>123456789</CustomerID>
  <CustomerNumber>123456</CustomerNumber>
  <CustomerName>AG</CustomerName>
  <CustomerAddress1>809 Transcript Ave</CustomerAddress1>
  <CustomerAddress2>Suite #30</CustomerAddress2>
  <CustomerCity>Louisville</CustomerCity>
  <CustomerState>KY</CustomerState>
  <CustomerZIP>40203</CustomerZIP>
  <ServiceBranch>Newton Pike</ServiceBranch>
  <LineBranch>Pike Newton</LineBranch>
  <CustomerCountry>USA</CustomerCountry>
  <Telephone>(234) 123-4567</Telephone>
  <Fax>(234) 123-1234</Fax>
  <Cell>(123) 123-1234</Cell>
  <PointOfContact>Mas Hamilton</PointOfContact>
  <Email>abc@kml.kaba.com</Email>
  <Description>Attempt at updating customer record</Description>
</CustomerRecord>
</RESPONSE_UPDATE_CUSTOMER>

```

Example 2 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/customer/update
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/customer/update
```

Input Transaction: (HTTP Body)

```

<TRANSACTION_UPDATE_CUSTOMER>
  <UpdateCustomerRecord>
    <CustomerState>KY</CustomerState>
    <CustomerCity>Lexington</CustomerCity>
    <CustomerAddress2>Suite #13</CustomerAddress2>
    <CustomerAddress1>809 Transcript Ave</CustomerAddress1>
    <CustomerNumber>123456</CustomerNumber>
  </UpdateCustomerRecord>
  <DispatcherID/>
</TRANSACTION_UPDATE_CUSTOMER>

```

Output Transaction:

The transaction fails because the Customer ID is invalid (empty).

```

<RESPONSE_UPDATE_CUSTOMER>
  <TRANSACTION_UPDATE_CUSTOMER>
    <UpdateCustomerRecord>
      <CustomerState>KY</CustomerState>
      <CustomerCity>Lexington</CustomerCity>
      <CustomerAddress2>Suite #13</CustomerAddress2>
      <CustomerAddress1>809 Transcript Ave</CustomerAddress1>
      <CustomerNumber>123456</CustomerNumber>
    </UpdateCustomerRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_CUSTOMER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_INVALID_CUSTOMERID_BLANK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Invalid customer ID. Customer ID is blank.</Description>
  </ResultRecord>
</RESPONSE_UPDATE_CUSTOMER>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the

enumerated value name. The following enumerated values are present in the CenTran update customer transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example updates the address for a customer named **My New Customer**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/customer/update
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/customer/update
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "updateCustomerRecordField" :
  {
    "cellField" : null ,
    "customerAddress1Field" : "207 Legends Ln" ,
    "customerAddress2Field" : null ,
    "customerCityField" : "Lexington" ,
    "customerCountryField" : "USA" ,
    "customerIDField" : "My New Customer" ,
    "customerNameField" : null ,
    "customerNumberField" : null ,
    "customerStateField" : "KY" ,
    "customerZIPField" : "40505" ,
    "descriptionField" : null ,
    "emailField" : null ,
    "faxField" : null ,
    "lineBranchField" : null ,
    "pointOfContactField" : null ,
    "serviceBranchField" : null ,
    "telephoneField" : null
  }
}
```

Example Output Transaction - JSON:

```
{
  "customerRecordField" :
  {
    "cellField" : "859-253-4744" ,
    "customerAddress1Field" : "207 Legends Ln" ,
    "customerAddress2Field" : "" ,
    "customerCityField" : "Lexington" ,
    "customerCountryField" : "USA" ,
    "customerIDField" : "My New Customer" ,
    "customerNameField" : "New Customer LLC" ,
    "customerNumberField" : "123443" ,
    "customerStateField" : "KY" ,
    "customerZIPField" : "40505" ,
    "descriptionField" : "New Cencon Customer" ,
    "emailField" : "newcustomer@kml.kaba.com" ,
    "faxField" : "859-253-4748" ,
    "lineBranchField" : "North Bank Line Branch" ,
    "pointOfContactField" : "Fred at North Bank" ,
    "serviceBranchField" : "North Bank Service Branch" ,
    "telephoneField" : "859-253-4744"
  } ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Customer My New Customer successfully updated in the database."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_UPDATE_CUSTOMERField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "updateCustomerRecordField" :
    {
      "cellField" : null ,

```

```
        "customerAddress1Field" : "207 Legends Ln" ,  
        "customerAddress2Field" : null ,  
        "customerCityField" : "Lexington" ,  
        "customerCountryField" : "USA" ,  
        "customerIDField" : "My New Customer" ,  
        "customerNameField" : null ,  
        "customerNumberField" : null ,  
        "customerStateField" : "KY" ,  
        "customerZIPField" : "40505" ,  
        "descriptionField" : null ,  
        "emailField" : null ,  
        "faxField" : null ,  
        "lineBranchField" : null ,  
        "pointOfContactField" : null ,  
        "serviceBranchField" : null ,  
        "telephoneField" : null  
    }  
}
```


3.5.4 Web Service Customer Transactions - Delete Customer

CenTran Programming Reference Manual

This transaction deletes a customer from the database.

Transaction information required:

- Customer ID

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Customer ID
- Customer does not exist
- Customer is being referenced by one or more locks, users, route, or bank branch.
- Not authorized due to authorization role

Example 1 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/customer/delete
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/customer/delete
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_DELETE_CUSTOMER>
  <CustomerID>NoCustomer</CustomerID>
  <DispatcherID/>
</TRANSACTION_DELETE_CUSTOMER>
```

Output Transaction:

```
<RESPONSE_DELETE_CUSTOMER>
  <TRANSACTION_DELETE_CUSTOMER>
    <CustomerID>NoCustomer</CustomerID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_CUSTOMER>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_CUSTOMER_NOT_FOUND</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to find customer NoCustomer in the customer table.</Description>
  </ResultRecord>
</RESPONSE_DELETE_CUSTOMER>
```

Example 2 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/customer/delete
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/customer/delete
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_DELETE_CUSTOMER>
  <CustomerID>Yet Another Customer 3</CustomerID>
  <DispatcherID/>
</TRANSACTION_DELETE_CUSTOMER>
```

Output Transaction:

```
<RESPONSE_DELETE_CUSTOMER>
  <TRANSACTION_DELETE_CUSTOMER>
    <CustomerID>Yet Another Customer 3</CustomerID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_CUSTOMER>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
```

```

        <IfRetryValid>false</IfRetryValid>
        <Description>Customer Yet Another Customer 3 has been deleted successfully.
    </Description>
    </ResultRecord>
</RESPONSE_DELETE_CUSTOMER>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran customer delete transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example deletes a customer named **My New Customer**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/customer/delete
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/customer/delete
```

Example Input Transaction (HTTP Body) - JSON:

```

{
    "customerIDField" : "My New Customer" ,
    "dispatcherIDField" : null
}

```

Example Output Transaction - JSON:

```

{
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Customer My New Customer has been deleted successfully."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_DELETE_CUSTOMERField" :
    {
        "customerIDField" : "My New Customer" ,
        "dispatcherIDField" : "CentranSS"
    }
}

```

3.5.5 Web Service Customer Transactions - Query Customer Table

CenTran Programming Reference Manual

This transaction queries a customer table for a set of customer records. The query record in the input transaction file contains a set of customer fields to create a query from. The query record also contains a flag indicating if 'like' search or 'exact' search is to be used. The query transaction attempts to work in a similar fashion as Cencon's 'Find Customers' form to search for customers to be displayed in a customer report.

Transaction information required:

- Customer ID (Optional)
- Search Exact flag for Customer ID (Optional)
- Customer Number (Optional)
- Name (Optional)
- Address 1 (Optional)
- Address 2 (Optional)
- City (Optional)
- State (Optional)
- ZIP Code (Optional)
- Service Branch (Optional)
- Line Branch (Optional)
- Country (Optional)
- Telephone Number (Optional)
- FAX Number (Optional)
- Cell Phone Number (Optional)
- Point Of Contact Information (Optional)
- Email Information (Optional)
- Description (Optional)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Note: If string fields such as Name or Customer ID are left blank, those fields are left out of the search query (CenTran does not search for customer records in which Name or Customer ID field is empty).

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the customer records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error – failed to open customer table

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/customer/query
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/customer/query
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_CUSTOMER_QUERY>
  <CustomerQueryRecord>
    <CustomerCity>Lexington</CustomerCity>
    <CustomerName>AG</CustomerName>
  </CustomerQueryRecord>
  <DispatcherID/>
</TRANSACTION_CUSTOMER_QUERY>
```

Output Transaction:

By default, all fields except Customer Number are searched for values 'like' those given in the query record. For example, searching for Customer Name like 'Cust' will return all records whose Customer Name has 'Cust' as a substring. The search 'exact' option is available for the CustomerID field alone.

```
<RESPONSE_CUSTOMER_QUERY>
  <TRANSACTION_CUSTOMER_QUERY>
    <CustomerQueryRecord>
      <CustomerCity>Lexington</CustomerCity>
      <CustomerName>AG</CustomerName>
    </CustomerQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CUSTOMER_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Number of customer records matching the given query: 3.</Description>
```

```

</ResultRecord>
<CustomerRecord>

<CustomerID>123456789012345678901234567890123456789012345678901234</CustomerID>
  <CustomerNumber>777</CustomerNumber>
  <CustomerName>AG</CustomerName>
  <CustomerAddress1>805 Press Avenue</CustomerAddress1>
  <CustomerAddress2>Apt 18</CustomerAddress2>
  <CustomerCity>Lexington</CustomerCity>
  <CustomerState>KY</CustomerState>
  <CustomerZIP>40508</CustomerZIP>
  <ServiceBranch>Newton Pike</ServiceBranch>
  <LineBranch>Pike Newton</LineBranch>
  <CustomerCountry>US</CustomerCountry>
  <Telephone>(234) 123-4567</Telephone>
  <Fax>(234) 123-1234</Fax>
  <Cell>(123) 123-1234</Cell>
  <PointOfContact>Mas Hamilton</PointOfContact>
  <Email>abc@kml.kaba.com</Email>
  <Description>Attempt at adding customer record</Description>
</CustomerRecord>
<CustomerRecord>
  <CustomerID>2nd Eastern Regional Bank</CustomerID>
  <CustomerNumber>123321</CustomerNumber>
  <CustomerName>AG</CustomerName>
  <CustomerAddress1>809 Transcript Ave</CustomerAddress1>
  <CustomerAddress2>Suite #13</CustomerAddress2>
  <CustomerCity>Lexington</CustomerCity>
  <CustomerState>KY</CustomerState>
  <CustomerZIP>40508</CustomerZIP>
  <ServiceBranch>Newton Pike</ServiceBranch>
  <LineBranch>Pike Newton</LineBranch>
  <CustomerCountry>US</CustomerCountry>
  <Telephone>(234) 123-4567</Telephone>
  <Fax>(234) 123-1234</Fax>
  <Cell>(123) 123-1234</Cell>
  <PointOfContact>Kaba Mas</PointOfContact>
  <Email>abc@kml.kaba.com</Email>
  <Description>Updating Customer Record</Description>
</CustomerRecord>
<CustomerRecord>
  <CustomerID>3rd Eastern Regional Bank</CustomerID>
  <CustomerNumber>123322</CustomerNumber>
  <CustomerName>AG</CustomerName>
  <CustomerAddress1>810 Transcript Ave</CustomerAddress1>
  <CustomerAddress2>Suite #14</CustomerAddress2>
  <CustomerCity>Lexington</CustomerCity>
  <CustomerState>KY</CustomerState>
  <CustomerZIP>40508</CustomerZIP>
  <ServiceBranch>Newton Pike</ServiceBranch>
  <LineBranch>Pike Newton</LineBranch>
  <CustomerCountry>US</CustomerCountry>
  <Telephone>(234) 123-4567</Telephone>
  <Fax>(234) 123-1234</Fax>
  <Cell>(123) 123-1234</Cell>
  <PointOfContact>Kaba Mas</PointOfContact>
  <Email>abc@kml.kaba.com</Email>
  <Description>Customer Example</Description>
</CustomerRecord>
</RESPONSE_CUSTOMER_QUERY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran customer table query transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the customer table for customers with the telephone number **859-253-4744**.

Input Transaction Format (HTTP Post) - JSON:

https://{host}/CentranServiceJSON/rest/customer/query

Example Input Transaction (HTTP Post) - JSON:

https://kml-3242.domain.local/CentranServiceJSON/rest/customer/query

Example Input Transaction (HTTP Body) - JSON:

```
{
  "customerQueryRecordField" :
  {
    "cellField" : null ,
    "customerAddress1Field" : null ,
    "customerAddress2Field" : null ,
    "customerCityField" : null ,
    "customerCountryField" : null ,
    "customerIDField" : null ,
    "customerNameField" : null ,
    "customerNumberField" : null ,
    "customerStateField" : null ,
    "customerZIPField" : null ,
    "descriptionField" : null ,
    "emailField" : null ,
    "faxField" : null ,
    "ifExactCustomerIDField" : false ,
    "ifExactCustomerIDFieldSpecified" : false ,
    "lineBranchField" : null ,
    "pointOfContactField" : null ,
    "serviceBranchField" : null ,
    "telephoneField" : "859-253-4744"
  } ,
  "dispatcherIDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "customerRecordField" :
  [
    {
      "cellField" : "859-253-4744" ,
      "customerAddress1Field" : "207 Legends Ln" ,
      "customerAddress2Field" : "" ,
      "customerCityField" : "Lexington" ,
      "customerCountryField" : "USA" ,
      "customerIDField" : "My New Customer" ,
      "customerNameField" : "New Customer LLC" ,
      "customerNumberField" : "123443" ,
      "customerStateField" : "KY" ,
      "customerZIPField" : "40505" ,
      "descriptionField" : "New Cencon Customer" ,
      "emailField" : "newcustomer@kml.kaba.com" ,
      "faxField" : "859-253-4748" ,
      "lineBranchField" : "North Bank Line Branch" ,
      "pointOfContactField" : "Fred at North Bank" ,
      "serviceBranchField" : "North Bank Service Branch" ,
      "telephoneField" : "859-253-4744"
    }
  ] ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of customer records matching the given query: 1."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "TRANSACTION_CUSTOMER_QUERYField" :
  {
    "customerQueryRecordField" :
    {
      "cellField" : null ,
      "customerAddress1Field" : null ,
      "customerAddress2Field" : null ,
      "customerCityField" : null ,
      "customerCountryField" : null ,
      "customerIDField" : null ,
      "customerNameField" : null ,
      "customerNumberField" : null ,
      "customerStateField" : null ,
      "customerZIPField" : null ,
      "descriptionField" : null ,
      "emailField" : null ,
      "faxField" : null ,
      "ifExactCustomerIDField" : false ,
      "ifExactCustomerIDFieldSpecified" : false ,
      "lineBranchField" : null ,

```

```
        "pointOfContactField" : null ,  
        "serviceBranchField" : null ,  
        "telephoneField" : "859-253-4744"  
    } ,  
    "dispatcherIDField" : "CentranSS"  
}
```

3.5.6 Web Service Customer Transactions - Query Customer Table Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the customer table matching the given query condition. This transaction uses the same format as the Customer Table Query transaction.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/customer/query-count
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/customer/query-count
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_CUSTOMER_QUERY_COUNT>
  <CustomerQueryRecord>
    <CustomerZIP>40508</CustomerZIP>
  </CustomerQueryRecord>
  <DispatcherID/>
</TRANSACTION_CUSTOMER_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_CUSTOMER_QUERY_COUNT>
  <TRANSACTION_CUSTOMER_QUERY_COUNT>
    <CustomerQueryRecord>
      <CustomerZIP>40508</CustomerZIP>
    </CustomerQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_CUSTOMER_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Number of customer records matching the given query: 8.</Description>
  </ResultRecord>
  <QueryCount>8</QueryCount>
</RESPONSE_CUSTOMER_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran customer table query record count transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the customer table for a count of customers with an address state of **KY**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/customer/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/customer/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "customerQueryRecordField" :
```

```

{
  "cellField" : null ,
  "customerAddress1Field" : null ,
  "customerAddress2Field" : null ,
  "customerCityField" : null ,
  "customerCountryField" : null ,
  "customerIDField" : null ,
  "customerNameField" : null ,
  "customerNumberField" : null ,
  "customerStateField" : "KY" ,
  "customerZIPField" : null ,
  "descriptionField" : null ,
  "emailField" : null ,
  "faxField" : null ,
  "ifExactCustomerIDField" : false ,
  "ifExactCustomerIDFieldSpecified" : false ,
  "lineBranchField" : null ,
  "pointOfContactField" : null ,
  "serviceBranchField" : null ,
  "telephoneField" : null
} ,
"dispatcherIDField" : null
}

```

Example Output Transaction - JSON:

```

{
  "queryCountField" : "488" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of customer records matching the given query: 488."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_CUSTOMER_QUERY_COUNTField" :
  {
    "customerQueryRecordField" :
    {
      "cellField" : null ,
      "customerAddress1Field" : null ,
      "customerAddress2Field" : null ,
      "customerCityField" : null ,
      "customerCountryField" : null ,
      "customerIDField" : null ,
      "customerNameField" : null ,
      "customerNumberField" : null ,
      "customerStateField" : "KY" ,
      "customerZIPField" : null ,
      "descriptionField" : null ,
      "emailField" : null ,
      "faxField" : null ,
      "ifExactCustomerIDField" : false ,
      "ifExactCustomerIDFieldSpecified" : false ,
      "lineBranchField" : null ,
      "pointOfContactField" : null ,
      "serviceBranchField" : null ,
      "telephoneField" : null
    } ,
    "dispatcherIDField" : "CentranSS"
  }
}

```


3.6.1 Web Service Bank Branch Transactions - Add Bank Branch

CenTran Programming Reference Manual

This transaction adds a bank branch to the database.

Transaction information required:

- Bank Branch Name (64 character string)
- Bank Branch ID (1-9999 for Gen 1, 1-2 Billion for Gen 2)
- Customer ID (64 character string that must match an existing customer.)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid bank branch name
- Bank branch name already exists
- Not authorized due to authorization role

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/bank-branch/add
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/bank-branch/add
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ADD_BANK_BRANCH>
  <BankBranchRecord>
    <BankBranchName>North West Bank Branch</BankBranchName>
    <BankBranchID>2233</BankBranchID>
    <CustomerID>North Bank</CustomerID>
  </BankBranchRecord>
  <DispatcherID/>
</TRANSACTION_ADD_BANK_BRANCH>
```

Output Transaction:

The bank branch is added successfully to the bank branch table in the database. The output transaction has the original input transaction (TRANSACTION_ADD_BANK_BRANCH) and a result record (indicating success).

```
<RESPONSE_ADD_BANK_BRANCH>
  <TRANSACTION_ADD_BANK_BRANCH>
    <BankBranchRecord>
      <BankBranchName>North West Bank Branch</BankBranchName>
      <BankBranchID>2233</BankBranchID>
      <CustomerID>North Bank</CustomerID>
    </BankBranchRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_BANK_BRANCH>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>BankBranch North West Bank Branch successfully added to the database.
  </Description>
  </ResultRecord>
</RESPONSE_ADD_BANK_BRANCH>
```

Example 2 - Failure

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/bank-branch/add
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/bank-branch/add
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ADD_BANK_BRANCH>
  <BankBranchRecord>
```

```

    <BankBranchName>North East Bank Branch</BankBranchName>
    <BankBranchID>2233</BankBranchID>
    <CustomerID>North Bank</CustomerID>
  </BankBranchRecord>
  <DispatcherID>
</TRANSACTION_ADD_BANK_BRANCH>

```

Output Transaction:

In this example, bank branch name **North East Bank Branch** already exists in the bank branch table.

```

<RESPONSE_ADD_BANK_BRANCH>
  <TRANSACTION_ADD_BANK_BRANCH>
    <BankBranchRecord>
      <BankBranchName>North East Bank Branch</BankBranchName>
      <BankBranchID>2233</BankBranchID>
      <CustomerID>North Bank</CustomerID>
    </BankBranchRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_BANK_BRANCH>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_ADD_BANK_BRANCH_ALREADY_EXISTS</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Bank Branch North East Bank Branch already exists.</Description>
  </ResultRecord>
</RESPONSE_ADD_BANK_BRANCH>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran add bank branch transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example adds a bank branch named **My New Bank Branch**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/bank-branch/add
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/bank-branch/add
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "bankBranchRecordField" :
  {
    "bankBranchIDField" : "98543232" ,
    "bankBranchNameField" : "My New Bank Branch" ,
    "customerIDField" : "My New Customer"
  } ,
  "dispatcherIDField" : null
}

```

Example Output Transaction - JSON:

```

{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "BankBranch My New Bank Branch successfully added to the database."
    ] ,
    "errorCodeField" : "RC_OK" ,

```

```
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_ADD_BANK_BRANCHField" :
    {
        "bankBranchRecordField" :
        {
            "bankBranchIDField" : "98543232" ,
            "bankBranchNameField" : "My New Bank Branch" ,
            "customerIDField" : "My New Customer"
        } ,
        "dispatcherIDField" : "CentranSS"
    }
}
```

3.6.2 Web Service Bank Branch Transactions - Read Bank Branch

CenTran Programming Reference Manual

This transaction reads a bank branch from the database.

Transaction information required:

- Bank Branch Name (64 character string)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the bank branch record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Bank Branch does not exist
- Not authorized due to authorization role

Example 1 - Success

Input Transaction Format: (HTTP Get)

```
https://{host}/CentranService/rest/bank-branch/{bankbranchname}/data
```

Example Input Transaction: (HTTP Get)

```
https://kml-3242.domain.local/CentranService/rest/bank-branch/North Bank Branch/data
```

Output Transaction:

```
<RESPONSE_READ_BANK_BRANCH>
  <TRANSACTION_READ_BANK_BRANCH>
    <BankBranchName>North Bank Branch</BankBranchName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_BANK_BRANCH>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Success</Description>
  </ResultRecord>
  <BankBranchRecord>
    <BankBranchName>North Bank Branch</BankBranchName>
    <BankBranchID>1234</BankBranchID>
    <CustomerID>North Bank</CustomerID>
  </BankBranchRecord>
</RESPONSE_READ_BANK_BRANCH>
```

Example 2 - Failure

Input Transaction Format: (HTTP Get)

```
https://{host}/CentranService/rest/bank-branch/{bankbranchname}/data
```

Example Input Transaction: (HTTP Get)

```
https://kml-3242.domain.local/CentranService/rest/bank-branch/WayOutBankBranch/data
```

Output Transaction:

Here, bank branch **WayOutBankBranch** does not exist in the Cencon database bank branch table.

```
<RESPONSE_READ_BANK_BRANCH>
  <TRANSACTION_READ_BANK_BRANCH>
    <BankBranchName>WayOutBankBranch</BankBranchName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_BANK_BRANCH>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_BANK_BRANCH_NOT_FOUND</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Failed to find the bank branch in the database bank branch table. The
bank branch name is not in the database bank branch table.</Description>
  </ResultRecord>
</RESPONSE_READ_BANK_BRANCH>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read bank branch transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example reads the bank branch named **My New Bank Branch** from the bank branch table. Note that spaces are encoded as **%20** in URLs.

Input Transaction Format (HTTP Get) - JSON:

```
https://{host}/CentranServiceJSON/rest/bank-branch/{bankbranchname}/data
```

Example Input Transaction (HTTP Get) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/bank-branch/My%20New%20Bank%20Branch/data
```

Example Output Transaction - JSON:

```
{
  "bankBranchRecordField" :
  {
    "bankBranchIDField" : "98543232" ,
    "bankBranchNameField" : "My New Bank Branch" ,
    "customerIDField" : "My New Customer"
  } ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Success"
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "TRANSACTION_READ_BANK_BRANCHField" :
  {
    "bankBranchNameField" : "My New Bank Branch" ,
    "dispatcherIDField" : "CentranSS"
  }
}
```

3.6.3 Web Service Bank Branch Transactions - Update Bank Branch

CenTran Programming Reference Manual

This transaction updates data for an existing bank branch in the database. The bank branch fields to be updated have to be specified in the input transaction. Those bank branch fields that are not specified in the input transaction will not be changed from their current values. The numeric bank branch ID can not be changed because it is written as part of the security data to bank mode locks.

Transaction information required:

- Bank Branch Name
- Customer ID (Optional) - The new value for this field

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the updated bank branch record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Bank Branch Name
- Bank Branch does not exist
- Customer does not exist
- Not authorized due to authorization role

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/bank-branch/update
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/bank-branch/update
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_UPDATE_BANK_BRANCH>
  <UpdateBankBranchRecord>
    <CustomerID>Eastern Bank</CustomerID>
    <BankBranchName>North East Bank Branch</BankBranchName>
  </UpdateBankBranchRecord>
  <DispatcherID/>
</TRANSACTION_UPDATE_BANK_BRANCH>
```

Output Transaction:

The output transaction has the original input transaction (TRANSACTION_UPDATE_BANK_BRANCH), a result record (indicating success) and the updated bank branch record with new Customer ID value.

```
<RESPONSE_UPDATE_BANK_BRANCH>
  <TRANSACTION_UPDATE_BANK_BRANCH>
    <UpdateBankBranchRecord>
      <CustomerID>Eastern Bank</CustomerID>
      <BankBranchName>North East Bank Branch</BankBranchName>
    </UpdateBankBranchRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_BANK_BRANCH>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Bank Branch North East Bank Branch has been updated successfully.
  </ResultRecord>
  <BankBranchRecord>
    <BankBranchName>North East Bank Branch</BankBranchName>
    <BankBranchID>1235</BankBranchID>
    <CustomerID>Eastern Bank</CustomerID>
  </BankBranchRecord>
</RESPONSE_UPDATE_BANK_BRANCH>
```

Example 2 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/bank-branch/update
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/bank-branch/update
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_UPDATE_BANK_BRANCH>
  <UpdateBankBranchRecord>
    <CustomerID>Some Unknown Customer</CustomerID>
    <BankBranchName>North East Bank Branch</BankBranchName>
  </UpdateBankBranchRecord>
  <DispatcherID/>
</TRANSACTION_UPDATE_BANK_BRANCH>
```

Output Transaction:

The transaction fails because the Customer ID **Some Unknown Customer** does not exist in the Cencon database customer table.

```
<RESPONSE_UPDATE_BANK_BRANCH>
  <TRANSACTION_UPDATE_BANK_BRANCH>
    <UpdateBankBranchRecord>
      <CustomerID>Some Unknown Customer</CustomerID>
      <BankBranchName>North East Bank Branch</BankBranchName>
    </UpdateBankBranchRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_BANK_BRANCH>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_CUSTOMER_NOT_FOUND</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>New customer Some Unknown Customer does not exist in the customer table.
  </Description>
</ResultRecord>
</RESPONSE_UPDATE_BANK_BRANCH>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran update bank branch transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example adds a bank branch named **My New Bank Branch**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/bank-branch/update
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/bank-branch/update
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "updateBankBranchRecordField" :
  {
    "bankBranchNameField" : "My New Bank Branch" ,
    "customerIDField" : "Eastern Bank"
  }
}
```

Example Output Transaction - JSON:

```
{
  "bankBranchRecordField" :
  {
    "bankBranchIDField" : "98543232" ,
    "bankBranchNameField" : "My New Bank Branch" ,
```

```

        "customerIDField" : "Eastern Bank"
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Bank Branch My New Bank Branch has been updated successfully."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_UPDATE_BANK_BRANCHField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "updateBankBranchRecordField" :
        {
            "bankBranchNameField" : "My New Bank Branch" ,
            "customerIDField" : "Eastern Bank"
        }
    }
}

```


3.6.4 Web Service Bank Branch Transactions - Delete Bank Branch

CenTran Programming Reference Manual

This transaction deletes a bank branch from the database.

Transaction information required:

- Bank Branch Name

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid bank branch name
- Bank branch does not exist
- Bank branch is still in use
- Not authorized due to authorization role

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/bank-branch/delete
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/bank-branch/delete
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_DELETE_BANK_BRANCH>
  <BankBranchName>North North West Bank Branch</BankBranchName>
  <DispatcherID/>
</TRANSACTION_DELETE_BANK_BRANCH>
```

Output Transaction:

```
<RESPONSE_DELETE_BANK_BRANCH>
  <TRANSACTION_DELETE_BANK_BRANCH>
    <BankBranchName>North North West Bank Branch</BankBranchName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_BANK_BRANCH>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Bank Branch North North West Bank Branch has been deleted successfully.
  </Description>
  </ResultRecord>
</RESPONSE_DELETE_BANK_BRANCH>
```

Example 2 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/bank-branch/delete
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/bank-branch/delete
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_DELETE_BANK_BRANCH>
  <BankBranchName>Some Unknown Bank Branch</BankBranchName>
  <DispatcherID/>
</TRANSACTION_DELETE_BANK_BRANCH>
```

Output Transaction:

```
<RESPONSE_DELETE_BANK_BRANCH>
  <TRANSACTION_DELETE_BANK_BRANCH>
    <BankBranchName>Some Unknown Bank Branch</BankBranchName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_BANK_BRANCH>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_BANK_BRANCH_NOT_FOUND</ErrorCode>
```

```

<IfRetryValid>false</IfRetryValid>
<Description>Failed to find bank branch Some Unknown Bank Branch in the bank branch
table.</Description>
</ResultRecord>
</RESPONSE_DELETE_BANK_BRANCH>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran bank branch delete transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example deletes a bank branch named **My New Bank Branch**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/bank-branch/delete
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/bank-branch/delete
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "bankBranchNameField" : "My New Bank Branch" ,
  "dispatcherIDField" : null
}

```

Example Output Transaction - JSON:

```

{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Bank Branch My New Bank Branch has been deleted successfully."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_DELETE_BANK_BRANCHField" :
  {
    "bankBranchNameField" : "My New Bank Branch" ,
    "dispatcherIDField" : "CentranSS"
  }
}

```

3.6.5 Web Service Bank Branch Transactions - Query Bank Branch Table

CenTran Programming Reference Manual

This transaction queries a bank branch table for a set of bank branch records. The query record in the input transaction file contains a set of bank branch fields to create a query from. The query record also contains a flag indicating if 'like' search or 'exact' search is to be used. The query transaction attempts to work in a similar fashion as Cencon's 'Find Bank Branches' form to search for bank branches to be displayed in a bank branch report.

Transaction information required:

- Bank Branch Name
- Bank Branch ID minimum value (0-9999 for Gen 1, 0-2 Billion for Gen 2)
- Bank Branch ID maximum value (0-9999 for Gen 1, 0-2 Billion for Gen 2)
- Customer ID
- Search Exact flag

Note: If string fields such as Bank Branch Name or Customer ID are left blank, those fields are left out of the search query (CenTran does not search for bank branch records in which Bank Branch Name or Customer ID field is empty).

Transaction information returned:

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the bank branch records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error – failed to open bank branch table

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/bank-branch/query
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/bank-branch/query
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_BANK_BRANCH_QUERY>
  <BankBranchQueryRecord>
    <BankBranchIDMaximum>2900</BankBranchIDMaximum>
    <BankBranchIDMinimum>2800</BankBranchIDMinimum>
  </BankBranchQueryRecord>
  <DispatcherID/>
</TRANSACTION_BANK_BRANCH_QUERY>
```

Output Transaction:

By default, all fields except Customer Number are searched for values 'like' those given in the query record. For example, searching for Customer Name like 'Cust' will return all records whose Customer Name has 'Cust' as a substring. The search 'exact' option is available for the CustomerID field alone.

```
<RESPONSE_BANK_BRANCH_QUERY>
  <TRANSACTION_BANK_BRANCH_QUERY>
    <BankBranchQueryRecord>
      <BankBranchIDMaximum>2900</BankBranchIDMaximum>
      <BankBranchIDMinimum>2800</BankBranchIDMinimum>
    </BankBranchQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_BANK_BRANCH_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Number of bank branch records matching the given query: 4.</Description>
  </ResultRecord>
  <BankBranchRecord>
    <BankBranchName>Bank of the West (2804)</BankBranchName>
    <BankBranchID>2804</BankBranchID>
    <CustomerID>Bank of the West</CustomerID>
  </BankBranchRecord>
  <BankBranchRecord>
    <BankBranchName>Bank of the West (2813)</BankBranchName>
    <BankBranchID>2813</BankBranchID>
    <CustomerID>Bank of the West</CustomerID>
  </BankBranchRecord>
  <BankBranchRecord>
```

```

    <BankBranchName>Bank of the West (2857)</BankBranchName>
    <BankBranchID>2857</BankBranchID>
    <CustomerID>Bank of the West</CustomerID>
  </BankBranchRecord>
  <BankBranchRecord>
    <BankBranchName>Bank of the West (2858)</BankBranchName>
    <BankBranchID>2858</BankBranchID>
    <CustomerID>Bank of the West</CustomerID>
  </BankBranchRecord>
</RESPONSE_BANK_BRANCH_QUERY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran bank branch table query transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the bank branch table for bank branches assigned to customer **Eastern Bank**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/bank-branch/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/bank-branch/query
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "bankBranchQueryRecordField" :
  {
    "bankBranchIDMaximumField" : null ,
    "bankBranchIDMinimumField" : null ,
    "bankBranchNameField" : null ,
    "customerIDField" : "Eastern Bank" ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false
  } ,
  "dispatcherIDField" : null
}

```

Example Output Transaction - JSON:

```

{
  "bankBranchRecordField" :
  [
    {
      "bankBranchIDField" : "98543232" ,
      "bankBranchNameField" : "My New Bank Branch" ,
      "customerIDField" : "Eastern Bank"
    } ,
    {
      "bankBranchIDField" : "1235" ,
      "bankBranchNameField" : "North East Bank Branch" ,
      "customerIDField" : "Eastern Bank"
    }
  ] ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of bank branch records matching the given query: 2."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
  }
}

```

```
        "resultField" : 0
    } ,
    "tTRANSACTION_BANK_BRANCH_QUERYField" :
    {
        "bankBranchQueryRecordField" :
        {
            "bankBranchIDMaximumField" : null ,
            "bankBranchIDMinimumField" : null ,
            "bankBranchNameField" : null ,
            "customerIDField" : "Eastern Bank" ,
            "ifSearchExactField" : false ,
            "ifSearchExactFieldSpecified" : false
        } ,
        "dispatcherIDField" : "CentranSS"
    }
}
```

3.6.6 Web Service Bank Branch Transactions - Query Bank Branch Table Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the bank branch table matching the given query condition. This transaction uses the same format as the Bank Branch Table Query transaction.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/bank-branch/query-count
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/bank-branch/query-count
```

Input Transaction:

```
<TRANSACTION_BANK_BRANCH_QUERY_COUNT>
  <BankBranchQueryRecord>
    <BankBranchIDMaximum>2900</BankBranchIDMaximum>
    <BankBranchIDMinimum>2800</BankBranchIDMinimum>
  </BankBranchQueryRecord>
  <DispatcherID/>
</TRANSACTION_BANK_BRANCH_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_BANK_BRANCH_QUERY_COUNT>
  <TRANSACTION_BANK_BRANCH_QUERY_COUNT>
    <BankBranchQueryRecord>
      <BankBranchIDMaximum>2900</BankBranchIDMaximum>
      <BankBranchIDMinimum>2800</BankBranchIDMinimum>
    </BankBranchQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_BANK_BRANCH_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of bank branch records matching the given query: 4.</Description>
  </ResultRecord>
  <QueryCount>4</QueryCount>
</RESPONSE_BANK_BRANCH_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran bank branch table query record count transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the bank branch table for a count of bank branches assigned to customer **Eastern Bank**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/bank-branch/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/bank-branch/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "bankBranchQueryRecordField" :
  {
    "bankBranchIDMaximumField" : null ,
    "bankBranchIDMinimumField" : null ,
    "bankBranchNameField" : null ,
    "customerIDField" : "Eastern Bank" ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false
  } ,
  "dispatcherIDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "2" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of bank branch records matching the given query: 2."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_BANK_BRANCH_QUERY_COUNTField" :
  {
    "bankBranchQueryRecordField" :
    {
      "bankBranchIDMaximumField" : null ,
      "bankBranchIDMinimumField" : null ,
      "bankBranchNameField" : null ,
      "customerIDField" : "Eastern Bank" ,
      "ifSearchExactField" : false ,
      "ifSearchExactFieldSpecified" : false
    } ,
    "dispatcherIDField" : "CentranSS"
  }
}
```

3.7.1 Web Service Activity Log Transactions - Activity Log Table Query

CenTran Programming Reference Manual

This transaction queries an activity log table for a set of activity log records. The query record passed contains a set of activity log fields to create a query from. The record also contains a flag indicating if 'like' search or 'exact' search is to be used. The query transaction attempts to work in a similar fashion as Cencon's 'Find Activity Data' form to search for audit or activity log records to be displayed in the activity log report.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the activity log records are retrieved from the activity log table.

- Event Time Date range (Event Time Start and Event Time End)
- Lock Name
- Route Name
- User ID
- Lock Mode
- Customer ID
- Serial Number Range (Serial Number Start and Serial Number End)
- ATM Serial Number
- Region
- Search Exact Flag

Note

If string fields such as Lock Name or Customer ID are left blank, those fields are left out of the search query (CenTran does not search for activity log records having an empty Lock Name or Customer ID field).

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the activity log records (with selected fields) matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error - failed to open activity log table

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/event/query
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/event/query
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ACTIVITY_QUERY>
  <AuditQueryRecord>
    <!-- char string -->
    <LockName>VLK014</LockName>
    <!-- char string -->
    <LockMode>F</LockMode>
    <!-- char string -->
    <RouteName></RouteName>
    <!-- char string -->
    <UserID>fjrb1</UserID>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ATMSerialNumber>asdfasd</ATMSerialNumber>
    <!-- char string -->
    <Region>TestRegionD</Region>
    <!-- long -->
    <SerialNumberMinimum>530000</SerialNumberMinimum>
    <SerialNumberMaximum>540000</SerialNumberMaximum>
    <!-- date -->
    <EventDateStart>2004-12-24T00:00:00</EventDateStart>
    <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
    <!-- bool -->
    <IfSearchExact>true</IfSearchExact>
  </AuditQueryRecord>
  <!-- char string -->
  <DispatcherID/>
</TRANSACTION_ACTIVITY_QUERY>
```

Output Transaction:

The transaction succeeds and returns a record which happens to be a reassign call event on lock VLK014.

```
<RESPONSE_ACTIVITY_QUERY>
  <TRANSACTION_ACTIVITY_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <AuditQueryRecord>
      <LockName>VLK014</LockName>
      <LockMode>F</LockMode>
      <RouteName></RouteName>
      <UserID>fjrb1</UserID>
      <CustomerID>ACustomer</CustomerID>
      <ATMSerialNumber>asdfasd</ATMSerialNumber>
      <Region>TestRegionD</Region>
      <SerialNumberMinimum>530000</SerialNumberMinimum>
      <SerialNumberMaximum>540000</SerialNumberMaximum>
      <EventDateStart>2004-12-24T00:00:00</EventDateStart>
      <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
      <IfSearchExact>true</IfSearchExact>
    </AuditQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ACTIVITY_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Audit record/s found satisfying the search condition.
  </Description>
</ResultRecord>
<AuditRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <EventType>ENV_REASSIGN_CALL</EventType>
  <EventResult>0</EventResult>
  <EventDate>2004-12-24T19:47:18.234Z</EventDate>
  <PreviousDate xsi:nil="true" />
  <LogonUserID>CentranSS</LogonUserID>
  <LogonUser2ID />
  <LogonUser3ID />
  <UserID>fjrb1</UserID>
  <User2ID />
  <LockName>VLK014</LockName>
  <RouteName />
  <LockMode>F</LockMode>
  <CustomerID>ACustomer</CustomerID>
  <ATMSerialNumber>asdfasd</ATMSerialNumber>
  <Region>TestRegionD</Region>
  <SerialNumber>532214</SerialNumber>
  <BankBranchName />
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
</AuditRecord>
</RESPONSE_ACTIVITY_QUERY>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran activity log table query transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the activity log table for events related to lock serial number **1037890** after **July 2014**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/event/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/event/query
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "auditQueryRecordField" :
  {
    "aTMSerialNumberField" : null ,
    "bankBranchIDMaximumField" : null ,
    "bankBranchIDMinimumField" : null ,
    "bankBranchNameField" : null ,
    "bankModeUserIDMaximumField" : null ,
    "bankModeUserIDMinimumField" : null ,
    "customerIDField" : null ,
    "effectuatedKeyField" : null ,
    "eventDateEndField" : null ,
    "eventDateEndFieldSpecified" : false ,
    "eventDateStartField" : "\/Date(1404187200000-0400)\/" ,
    "eventDateStartFieldSpecified" : true ,
    "eventTypeField" : null ,
    "ifPossibleLockErrorOrIntrusionField" : false ,
    "ifPossibleLockErrorOrIntrusionFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : null ,
    "logonKeyField" : null ,
    "networkAddressField" : null ,
    "regionField" : null ,
    "routeNameField" : null ,
    "serialNumberMaximumField" : "1037890" ,
    "serialNumberMinimumField" : "1037890" ,
    "userIDField" : null
  } ,
  "dispatcherIDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "auditRecordField" :
  [
    {
      "aTMSerialNumberField" : "" ,
      "auditPKField" : "fc3b861a-7dd5-460b-aa2f-074476ae5066" ,
      "bankBranchIDField" : "0" ,
      "bankBranchNameField" : "" ,
      "bankUserIDField" : "0" ,
      "clientIPAddressField" : "10.108.6.104:53444" ,
      "customerIDField" : "North Bank" ,
      "databaseLockAuditIndexField" : null ,
      "descriptionField" : "Call on lock reassigned from FIM SHA Key 4 to F3 (failed)" ,
      "eventDateField" : "\/Date(1408990917720)\/" ,
      "eventResultField" : "368" ,
      "eventTypeField" : "ENV_REASSIGN_CALL" ,
      "groupNameField" : "" ,
      "isLockClockBatteryIsLowField" : null ,
      "isLockCloseSealValidField" : null ,
      "isLockDuressComboUsedField" : null ,
      "isPossibleLockErrorOrIntrusionField" : null ,
      "lockAbbreviatedDeviceIDField" : null ,
      "lockAuditIndexField" : null ,
      "lockCloseSealField" : null ,
      "lockCloseTimeField" : null ,
      "lockFullSealCountField" : null ,
      "lockIPAddressField" : "" ,
      "lockModeField" : 1 ,
      "lockNameField" : "Gen2 Swingbolt 1037890" ,
      "lockOpenTimeField" : null ,
      "lockTransactionCategoryField" : null ,
      "lockTransactionEventField" : null ,
      "lockTransactionTypeField" : null ,
      "logonKeyField" :
      {
        "canTypeField" :
        [
          2
        ] ,
        "keyIDField" :
        [
          0 ,
          0 ,
          16 ,

```

```

35 ,
240 ,
215
    ]
  } ,
  "logonUser1IDField" : "CentranSS" ,
  "logonUser2IDField" : "" ,
  "logonUser3IDField" : "" ,
  "previousDateField" : null ,
  "regionField" : "KENTUCKY" ,
  "routeNameField" : "" ,
  "serialNumberField" : "001037890" ,
  "user1IDField" : "FLM SHA Key 4" ,
  "user1KeyField" : null ,
  "user2IDField" : "F3" ,
  "user2KeyField" :
  {
    "canTypeField" :
    [
      4
    ] ,
    "keyIDField" :
    [
      0 ,
      0 ,
      0 ,
      70 ,
      16 ,
      122
    ]
  }
} ,
{
  "aTMSerialNumberField" : "" ,
  "auditPKField" : "55dae5ec-ea44-442a-b5ce-088793a8b1e1" ,
  "bankBranchIDField" : "-1" ,
  "bankBranchNameField" : "" ,
  "bankUserIDField" : "0" ,
  "clientIPAddressField" : "10.108.6.104:60743" ,
  "customerIDField" : "" ,
  "databaseLockAuditIndexField" : null ,
  "descriptionField" : "Lock time set from 07\08\14 14:36:25 to 07\08\14 14:30:55. Time
updated by CentTran during serial evaluation of lock event." ,
  "eventDateField" : "\Date(1404829855300)\\" ,
  "eventResultField" : "0" ,
  "eventTypeField" : "ENV_CENTRAN_SERIAL_UPDATE_CLOCK" ,
  "groupNameField" : "" ,
  "isLockClockBatteryIsLowField" : null ,
  "isLockCloseSealValidField" : null ,
  "isLockDuressComboUsedField" : null ,
  "isPossibleLockErrorOrIntrusionField" : null ,
  "lockAbbreviatedDeviceIDField" : null ,
  "lockAuditIndexField" : null ,
  "lockCloseSealField" : null ,
  "lockCloseTimeField" : null ,
  "lockFullSealCountField" : null ,
  "lockIPAddressField" : "10.108.6.104:35005" ,
  "lockModeField" : 0 ,
  "lockNameField" : "" ,
  "lockOpenTimeField" : null ,
  "lockTransactionCategoryField" : null ,
  "lockTransactionEventField" : null ,
  "lockTransactionTypeField" : null ,
  "logonKeyField" :
  {
    "canTypeField" :
    [
      255
    ] ,
    "keyIDField" :
    [
      97 ,
      50 ,
      206 ,
      61 ,
      153 ,
      157
    ]
  }
} ,
  "logonUser1IDField" : "CENTRAN" ,
  "logonUser2IDField" : "" ,
  "logonUser3IDField" : "" ,
  "previousDateField" : "\Date(1404830185140)\\" ,
  "regionField" : "" ,
  "routeNameField" : "" ,
  "serialNumberField" : "001037890" ,
  "user1IDField" : "" ,
  "user1KeyField" : null ,
  "user2IDField" : "" ,
  "user2KeyField" : null
} ,

```

```

{
    "aTMSerialNumberField" : "",
    "auditPKField" : "5d3b2c4e-5541-47e2-9d4b-2190cc4ed129" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : null ,
    "descriptionField" : "Assigned dispatch to lock to FLM SHA Key 4" ,
    "eventDateField" : "\/Date(1409160904210)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_ASSIGN_CALL" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : null ,
    "isLockCloseSealValidField" : null ,
    "isLockDuressComboUsedField" : null ,
    "isPossibleLockErrorOrIntrusionField" : null ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : null ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : null ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 1 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "lockOpenTimeField" : null ,
    "lockTransactionCategoryField" : null ,
    "lockTransactionEventField" : null ,
    "lockTransactionTypeField" : null ,
    "logonKeyField" :
    {
        "canTypeField" :
        [
            255
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            0 ,
            0 ,
            3
        ]
    } ,
    "logonUser1IDField" : "CentranSS" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001037890" ,
    "user1IDField" : "FLM SHA Key 4" ,
    "user1KeyField" :
    {
        "canTypeField" :
        [
            24
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            106 ,
            113 ,
            172
        ]
    } ,
    "user2IDField" : "" ,
    "user2KeyField" : null
} ,
{
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "6df8e9ad-8461-4606-b353-3407573cabe0" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "10.108.6.104:53500" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : null ,
    "descriptionField" : "Call on lock reassigned from FLM SHA Key 4 to F4 (failed)" ,
    "eventDateField" : "\/Date(1408992339107)\/" ,
    "eventResultField" : "44" ,
    "eventTypeField" : "ENV_REASSIGN_CALL" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : null ,
    "isLockCloseSealValidField" : null ,
    "isLockDuressComboUsedField" : null ,
    "isPossibleLockErrorOrIntrusionField" : null ,

```

```

"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : null ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : null ,
"lockIPAddressField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lockOpenTimeField" : null ,
"lockTransactionCategoryField" : null ,
"lockTransactionEventField" : null ,
"lockTransactionTypeField" : null ,
"logonKeyField" :
{
    "canTypeField" :
    [
        2
    ] ,
    "keyIDField" :
    [
        0 ,
        0 ,
        16 ,
        35 ,
        240 ,
        215
    ]
} ,
"logonUser1IDField" : "CentranSS" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001037890" ,
"user1IDField" : "FLM SHA Key 4" ,
"user1KeyField" : null ,
"user2IDField" : "F4" ,
"user2KeyField" : null
} ,
{
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "33b3cbc4-483b-4962-9aae-40ba394b829f" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "348" ,
    "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Open Lock ( User: Route SHA Key
2 )" ,
    "eventDateField" : "\/Date(1404830173000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
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    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
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    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "10" ,
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    "lockNameField" : "Gen2 Swingbolt 1037890" ,
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    "lockTransactionCategoryField" : "0" ,
    "lockTransactionEventField" : "1" ,
    "lockTransactionTypeField" : "32" ,
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    "logonUser1IDField" : "" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
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        "keyIDField" :
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            0 ,
            0 ,

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0 ,
106 ,
183 ,
80
    ]
    } ,
    "user2IDField" : "" ,
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} ,
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    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "10.108.6.104:49851" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : null ,
    "descriptionField" : "Unassigned dispatch to lock from F4" ,
    "eventDateField" : "\\Date(1409160600753)\\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_UNASSIGN_CALL" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : null ,
    "isLockCloseSealValidField" : null ,
    "isLockDuressComboUsedField" : null ,
    "isPossibleLockErrorOrIntrusionField" : null ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : null ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : null ,
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    "lockTransactionEventField" : null ,
    "lockTransactionTypeField" : null ,
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        ] ,
        "keyIDField" :
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            35 ,
            240 ,
            215
        ]
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            4
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        "keyIDField" :
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            17 ,
            31
        ]
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    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : null ,

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```

"descriptionField" : "Assigned dispatch to lock to F4" ,
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"eventResultField" : "0" ,
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"groupNameField" : "" ,
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"isLockCloseSealValidField" : null ,
"isLockDuressComboUsedField" : null ,
"isPossibleLockErrorOrIntrusionField" : null ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : null ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : null ,
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"lockTransactionEventField" : null ,
"lockTransactionTypeField" : null ,
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    "keyIDField" :
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        3
    ]
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"logonUser3IDField" : "" ,
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        31
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    "eventResultField" : "0" ,
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    "isLockCloseSealValidField" : null ,
    "isLockDuressComboUsedField" : null ,
    "isPossibleLockErrorOrIntrusionField" : null ,
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```

```

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                240 ,
                215
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                113 ,
                172
            ]
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                2
            ] ,
            "keyIDField" :
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                0 ,
                0 ,
                16 ,
                35 ,
                240 ,
                215
            ]
        }
    }
}

```



```

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            184 ,
            218
        ]
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            240 ,
            215
        ]
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            24
        ] ,
        "keyIDField" :
        [
            0 ,

```

```

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        0 ,
        106 ,
        184 ,
        218
    ]
},
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    "bankBranchNameField" : "" ,
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    "clientIPAddressField" : "10.108.6.104:53410" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : null ,
    "descriptionField" : "Call on lock reassigned from FLM SHA Key 6 to FLM SHA Key 4" ,
    "eventDateField" : "\/Date(1408990707317)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_REASSIGN_CALL" ,
    "groupNameField" : "" ,
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    "isLockCloseSealValidField" : null ,
    "isLockDuressComboUsedField" : null ,
    "isPossibleLockErrorOrIntrusionField" : null ,
    "lockAbbreviatedDeviceIDField" : null ,
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            240 ,
            215
        ]
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            184 ,
            218
        ]
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        [
            24
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,

```

```

        0 ,
        106 ,
        113 ,
        172
    ]
}
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    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : null ,
    "descriptionField" : "Route SHA Key 2 dispatched to lock" ,
    "eventDateField" : "\/Date(1404829819817)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_DISPATCH_FIM" ,
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    "isLockCloseSealValidField" : null ,
    "isLockDuressComboUsedField" : null ,
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    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
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            80
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    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "349" ,
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    "eventDateField" : "\/Date(1404829855000)\/" ,

```

```

"eventResultField" : "0" ,
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"groupNameField" : "" ,
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"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
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"lockCloseSealField" : null ,
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"lockTransactionCategoryField" : "159" ,
"lockTransactionEventField" : "0" ,
"lockTransactionTypeField" : "0" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
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"user2KeyField" : null
} ,
{
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"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "10.108.6.104:49377" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : null ,
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"eventResultField" : "0" ,
"eventTypeField" : "ENV_UNASSIGN_CALL" ,
"groupNameField" : "" ,
"isLockClockBatteryIsLowField" : null ,
"isLockCloseSealValidField" : null ,
"isLockDuressComboUsedField" : null ,
"isPossibleLockErrorOrIntrusionField" : null ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : null ,
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16 ,
35 ,
240 ,
215
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"canTypeField" :
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```

```

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        31
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    "bankBranchNameField" : "" ,
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    "eventDateField" : "\\Date(1408992432313)\\/" ,
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    "isLockCloseSealValidField" : null ,
    "isLockDuressComboUsedField" : null ,
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    "lockAuditIndexField" : null ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
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            215
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            106 ,
            113 ,
            172
        ]
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            4

```

```

    ],
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        70 ,
        17 ,
        31
    ]
}
},
{
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "1a4408b0-bb74-4479-ab9d-9f4c718e0e9d" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "350" ,
    "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
    "eventDateField" : "\\Date(1404829973000)\\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : true ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "350" ,
    "lockCloseSealField" : "3675" ,
    "lockCloseTimeField" : "\\Date(1404829973000)\\/" ,
    "lockFullSealCountField" : "10" ,
    "lockIPAddressField" : ":0" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "lockOpenTimeField" : null ,
    "lockTransactionCategoryField" : "160" ,
    "lockTransactionEventField" : "6" ,
    "lockTransactionTypeField" : "0" ,
    "logonKeyField" : null ,
    "logonUser1IDField" : "" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001037890" ,
    "user1IDField" : "" ,
    "user1KeyField" : null ,
    "user2IDField" : "" ,
    "user2KeyField" : null
},
{
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "1f0a3e86-e461-463e-88c2-b393c37ab432" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : null ,
    "descriptionField" : "FLM SHA Key 6 closed lock" ,
    "eventDateField" : "\\Date(1408979318460)\\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_CLOSE_FLM" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : null ,
    "isLockCloseSealValidField" : null ,
    "isLockDuressComboUsedField" : null ,
    "isPossibleLockErrorOrIntrusionField" : null ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : null ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : null ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 1 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "lockOpenTimeField" : null ,
    "lockTransactionCategoryField" : null ,
    "lockTransactionEventField" : null ,
    "lockTransactionTypeField" : null ,
    "logonKeyField" :
    {
        "canTypeField" :
        [

```

```

                255
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                0 ,
                0 ,
                3
            ]
        } ,
        "logonUser1IDField" : "CentranSS" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001037890" ,
        "user1IDField" : "FLM SHA Key 6" ,
        "user1KeyField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                184 ,
                218
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditPKField" : "de014123-4708-48e1-8783-d343ae16db90" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "10.108.6.104:60761" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : null ,
        "descriptionField" : "Closed dispatch of Route SHA Key 2 to lock by reading the status of
the lock across a serial connection." ,
        "eventDateField" : "\\Date(1404829973047)\\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_CLOSE_LOCK_SERIAL" ,
        "groupNameField" : "" ,
        "isLockClockBatteryIsLowField" : null ,
        "isLockCloseSealValidField" : null ,
        "isLockDuressComboUsedField" : null ,
        "isPossibleLockErrorOrIntrusionField" : null ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : null ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : null ,
        "lockIPAddressField" : "10.108.6.104:35005" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : null ,
        "lockTransactionEventField" : null ,
        "lockTransactionTypeField" : null ,
        "logonKeyField" :
        {
            "canTypeField" :
            [
                255
            ] ,
            "keyIDField" :
            [
                97 ,
                50 ,
                206 ,
                61 ,
                153 ,
                157
            ]
        } ,
        "logonUser1IDField" : "CENTRAN" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,

```

```

"routeNameField" : "" ,
"serialNumberField" : "001037890" ,
"user1IDField" : "Route SHA Key 2" ,
"user1KeyField" :
{
    "canTypeField" :
    [
        24
    ] ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        183 ,
        80
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" :
{
    "canTypeField" :
    [
        255
    ] ,
    "keyIDField" :
    [
        255 ,
        255 ,
        255 ,
        255 ,
        255 ,
        255
    ]
}
} ,
{
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "edda9dbd-1ae6-4ae2-9769-a786ad3ae160" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "10.108.6.104:51943" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : null ,
    "descriptionField" : "FLM SHA Key 6 closed lock" ,
    "eventDateField" : "\/Date(1408979682850)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_CLOSE_FLM" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : null ,
    "isLockCloseSealValidField" : null ,
    "isLockDuressComboUsedField" : null ,
    "isPossibleLockErrorOrIntrusionField" : null ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : null ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : null ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 1 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "lockOpenTimeField" : null ,
    "lockTransactionCategoryField" : null ,
    "lockTransactionEventField" : null ,
    "lockTransactionTypeField" : null ,
    "logonKeyField" :
    {
        "canTypeField" :
        [
            2
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            16 ,
            35 ,
            240 ,
            215
        ]
    } ,
    "logonUser1IDField" : "CentranSS" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001037890" ,
    "user1IDField" : "FLM SHA Key 6" ,

```



```

"user1KeyField" :
{
    "canTypeField" :
    [
        24
    ] ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        184 ,
        218
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "a0f62b13-c3f2-4907-ba5b-c7fa048d7ea1" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "10.108.6.104:51901" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : null ,
    "descriptionField" : "FLM SHA Key 6 dispatched to lock" ,
    "eventDateField" : "\\Date(1408979359863)\\\" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_DISPATCH_FLM" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : null ,
    "isLockCloseSealValidField" : null ,
    "isLockDuressComboUsedField" : null ,
    "isPossibleLockErrorOrIntrusionField" : null ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : null ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : null ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 1 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "lockOpenTimeField" : null ,
    "lockTransactionCategoryField" : null ,
    "lockTransactionEventField" : null ,
    "lockTransactionTypeField" : null ,
    "logonKeyField" :
    {
        "canTypeField" :
        [
            2
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            16 ,
            35 ,
            240 ,
            215
        ]
    } ,
    "logonUser1IDField" : "CentranSS" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001037890" ,
    "user1IDField" : "FLM SHA Key 6" ,
    "user1KeyField" :
    {
        "canTypeField" :
        [
            24
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            106 ,
            184 ,
            218
        ]
    } ,
    "user2IDField" : "" ,
    "user2KeyField" : null
}

```

```

    }
  ],
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of audit records matching the given query: 20."
    ],
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  },
  "tTRANSACTION_ACTIVITY_QUERYField" :
  {
    "auditQueryRecordField" :
    {
      "atMSerialNumberField" : null ,
      "bankBranchIDMaximumField" : null ,
      "bankBranchIDMinimumField" : null ,
      "bankBranchNameField" : null ,
      "bankModeUserIDMaximumField" : null ,
      "bankModeUserIDMinimumField" : null ,
      "customerIDField" : null ,
      "effectedKeyField" : null ,
      "eventDateEndField" : null ,
      "eventDateEndFieldSpecified" : false ,
      "eventDateStartField" : "\\Date(1404187200000-0400)\\/" ,
      "eventDateStartFieldSpecified" : true ,
      "eventTypeField" : null ,
      "ifPossibleLockErrorOrIntrusionField" : false ,
      "ifPossibleLockErrorOrIntrusionFieldSpecified" : false ,
      "ifSearchExactField" : false ,
      "ifSearchExactFieldSpecified" : false ,
      "lockModeField" : 0 ,
      "lockModeFieldSpecified" : false ,
      "lockNameField" : null ,
      "logonKeyField" : null ,
      "networkAddressField" : null ,
      "regionField" : null ,
      "routeNameField" : null ,
      "serialNumberMaximumField" : "1037890" ,
      "serialNumberMinimumField" : "1037890" ,
      "userIDField" : null
    },
    "dispatcherIDField" : "CentranSS"
  }
}

```

3.7.2 Web Service Activity Log Transactions - Activity Log Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the activity log table query matching the given query condition. This transaction uses the same format as the Activity Log Table Query transaction.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/event/query-count
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/event/query-count
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ACTIVITY_QUERY_COUNT>
  <AuditQueryRecord>
    <!-- char string -->
    <LockName>VLK014</LockName>
    <!-- char string -->
    <LockMode>F</LockMode>
    <!-- char string -->
    <RouteName></RouteName>
    <!-- char string -->
    <UserID>fjrb1</UserID>
    <!-- char string -->
    <CustomerID>ACustomer</CustomerID>
    <!-- char string -->
    <ATMSerialNumber>asdfasd</ATMSerialNumber>
    <!-- char string -->
    <Region>TestRegionD</Region>
    <!-- long -->
    <SerialNumberMinimum>530000</SerialNumberMinimum>
    <SerialNumberMaximum>540000</SerialNumberMaximum>
    <!-- date -->
    <EventDateStart>2004-12-24T00:00:00</EventDateStart>
    <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
    <!-- bool -->
    <IfSearchExact>true</IfSearchExact>
  </AuditQueryRecord>
  <!-- char string -->
  <DispatcherID>
</TRANSACTION_ACTIVITY_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_ACTIVITY_QUERY_COUNT>
  <TRANSACTION_ACTIVITY_QUERY_COUNT xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <AuditQueryRecord>
      <LockName>VLK014</LockName>
      <LockMode>F</LockMode>
      <RouteName></RouteName>
      <UserID>fjrb1</UserID>
      <CustomerID>ACustomer</CustomerID>
      <ATMSerialNumber>asdfasd</ATMSerialNumber>
      <Region>TestRegionD</Region>
      <SerialNumberMinimum>530000</SerialNumberMinimum>
      <SerialNumberMaximum>540000</SerialNumberMaximum>
      <EventDateStart>2004-12-24T00:00:00</EventDateStart>
      <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
      <IfSearchExact>true</IfSearchExact>
    </AuditQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ACTIVITY_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of audit record/s found satisfying the search condition: 1.
    </Description>
  </ResultRecord>
  <QueryCount>1</QueryCount>
</RESPONSE_ACTIVITY_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the

enumerated value name. The following enumerated values are present in the CenTran activity log table query record count transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the activity log table for a count of **FLM** dispatches to lock serial number **1037890**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/event/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/event/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "auditQueryRecordField" :
  {
    "aTMSerialNumberField" : null ,
    "bankBranchIDMaximumField" : null ,
    "bankBranchIDMinimumField" : null ,
    "bankBranchNameField" : null ,
    "bankModeUserIDMaximumField" : null ,
    "bankModeUserIDMinimumField" : null ,
    "customerIDField" : null ,
    "effectuatedKeyField" : null ,
    "eventDateEndField" : null ,
    "eventDateEndFieldSpecified" : false ,
    "eventDateStartField" : null ,
    "eventDateStartFieldSpecified" : false ,
    "eventTypeField" : "ENV_DISPATCH_FLM" ,
    "ifPossibleLockErrorOrIntrusionField" : false ,
    "ifPossibleLockErrorOrIntrusionFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : null ,
    "logonKeyField" : null ,
    "networkAddressField" : null ,
    "regionField" : null ,
    "routeNameField" : null ,
    "serialNumberMaximumField" : "1037890" ,
    "serialNumberMinimumField" : "1037890" ,
    "userIDField" : null
  } ,
  "dispatcherIDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "112" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of audit records matching the given query: 112."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_ACTIVITY_QUERY_COUNTField" :
  {
    "auditQueryRecordField" :
    {
      "aTMSerialNumberField" : null ,
      "bankBranchIDMaximumField" : null ,
      "bankBranchIDMinimumField" : null ,

```

```

        "bankBranchNameField" : null ,
        "bankModeUserIDMaximumField" : null ,
        "bankModeUserIDMinimumField" : null ,
        "customerIDField" : null ,
        "effectedKeyField" : null ,
        "eventDateEndField" : null ,
        "eventDateEndFieldSpecified" : false ,
        "eventDateStartField" : null ,
        "eventDateStartFieldSpecified" : false ,
        "eventTypeField" : "ENV_DISPATCH_FLM" ,
        "ifPossibleLockErrorOrIntrusionField" : false ,
        "ifPossibleLockErrorOrIntrusionFieldSpecified" : false ,
        "ifSearchExactField" : false ,
        "ifSearchExactFieldSpecified" : false ,
        "lockModeField" : 0 ,
        "lockModeFieldSpecified" : false ,
        "lockNameField" : null ,
        "logonKeyField" : null ,
        "networkAddressField" : null ,
        "regionField" : null ,
        "routeNameField" : null ,
        "serialNumberMaximumField" : "1037890" ,
        "serialNumberMinimumField" : "1037890" ,
        "userIDField" : null
    } ,
    "dispatcherIDField" : "CentranSS"
}

```

3.7.3 Web Service Activity Log Transactions - Activity Log Archive Table Query

CenTran Programming Reference Manual

This transaction operates in the same manner as the Activity Log Table Query, but is applied against the Activity Archive Log Table.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/archived-event/query
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/archived-event/query
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ACTIVITY_ARCHIVE_QUERY>
  <AuditQueryRecord>
    <!-- char string -->
    <LockName>VLK</LockName>
    <!-- long -->
    <SerialNumberMinimum>530000</SerialNumberMinimum>
    <SerialNumberMaximum>540000</SerialNumberMaximum>
    <!-- date -->
    <EventDateStart>2004-12-24T00:00:00</EventDateStart>
    <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
    <!-- bool -->
    <IfSearchExact>0</IfSearchExact>
  </AuditQueryRecord>
  <!-- char string -->
  <DispatcherID>
</TRANSACTION_ACTIVITY_ARCHIVE_QUERY>
```

Output Transaction:

The transaction returns all activity archive records matching the given search fields and also an additional search field - that of region being 'TestRegionD' because the dispatcher belongs to that local region.

```
<RESPONSE_ACTIVITY_ARCHIVE_QUERY>
  <TRANSACTION_ACTIVITY_ARCHIVE_QUERY xmlns="http://www.kaba-mas.com/CentranTransac.xsd">
    <AuditQueryRecord>
      <LockName>VLK</LockName>
      <SerialNumberMinimum>530000</SerialNumberMinimum>
      <SerialNumberMaximum>540000</SerialNumberMaximum>
      <EventDateStart>2004-12-24T00:00:00</EventDateStart>
      <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
      <IfSearchExact>0</IfSearchExact>
    </AuditQueryRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_ACTIVITY_ARCHIVE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Audit archive record/s found satisfying the search condition.
  </Description>
</ResultRecord>
  <AuditRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <EventType>ENV_REASSIGN_CALL</EventType>
    <EventResult>0</EventResult>
    <EventDate>2004-12-24T19:47:18.234Z</EventDate>
    <PreviousDate xsi:nil="true" />
    <LogonUser1ID>CentranSS</LogonUser1ID>
    <LogonUser2ID />
    <LogonUser3ID />
    <User1ID>fjrb1</User1ID>
    <User2ID />
    <LockName>VLK014</LockName>
    <RouteName />
    <LockMode>F</LockMode>
    <CustomerID>ACustomer</CustomerID>
    <ATMSerialNumber>asdfasd</ATMSerialNumber>
    <Region>TestRegionD</Region>
    <SerialNumber>532214</SerialNumber>
    <BankBranchName />
    <BankUserID>0</BankUserID>
    <BankBranchID>0</BankBranchID>
  </AuditRecord>
  <AuditRecord xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <EventType>ENV_REASSIGN_CALL</EventType>
    <EventResult>0</EventResult>
    <EventDate>2004-12-24T19:47:18.456Z</EventDate>
    <PreviousDate xsi:nil="true" />
    <LogonUser1ID>CentranSS</LogonUser1ID>
    <LogonUser2ID />
    <LogonUser3ID />
    <User1ID>rzjack</User1ID>
    <User2ID>rzjill</User2ID>
    <LockName>VLK016</LockName>
    <RouteName>TestRte4</RouteName>
```

```

<LockMode>R</LockMode>
<CustomerID />
<ATMSerialNumber />
<Region>TestRegionD</Region>
<SerialNumber>532016</SerialNumber>
<BankBranchName />
<BankUserID>0</BankUserID>
<BankBranchID>0</BankBranchID>
</AuditRecord>
</RESPONSE_ACTIVITY_ARCHIVE_QUERY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran activity log archive table query transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the activity log archive table for route dispatches to Route lock user **nr1**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/archived-event/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/archived-event/query
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "auditQueryRecordField" :
  {
    "aTMSerialNumberField" : null ,
    "bankBranchIDMaximumField" : null ,
    "bankBranchIDMinimumField" : null ,
    "bankBranchNameField" : null ,
    "bankModeUserIDMaximumField" : null ,
    "bankModeUserIDMinimumField" : null ,
    "customerIDField" : null ,
    "effectuatedKeyField" : null ,
    "eventDateEndField" : null ,
    "eventDateEndFieldSpecified" : false ,
    "eventDateStartField" : null ,
    "eventDateStartFieldSpecified" : false ,
    "eventTypeField" : "ENV_DISPATCH_ROUTE" ,
    "ifPossibleLockErrorOrIntrusionField" : false ,
    "ifPossibleLockErrorOrIntrusionFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : null ,
    "logonKeyField" : null ,
    "networkAddressField" : null ,

```

```

        "regionField" : null ,
        "routeNameField" : null ,
        "serialNumberMaximumField" : null ,
        "serialNumberMinimumField" : null ,
        "userIDField" : "nr1"
    } ,
    "dispatcherIDField" : null
}

```

Example Output Transaction - JSON:

```

{
    "auditRecordField" :
    [
        {
            "aTMSerialNumberField" : "" ,
            "auditPKField" : "1582114b-46b4-4af9-8e17-69329278e463" ,
            "bankBranchIDField" : "-1" ,
            "bankBranchNameField" : "" ,
            "bankUserIDField" : "0" ,
            "clientIPAddressField" : "" ,
            "customerIDField" : "" ,
            "databaseLockAuditIndexField" : null ,
            "descriptionField" : "nr1 and nr2 dispatched to route" ,
            "eventDateField" : "\/Date(1342550262533)\/" ,
            "eventResultField" : "0" ,
            "eventTypeField" : "ENV_DISPATCH_ROUTE" ,
            "groupNameField" : "" ,
            "isLockClockBatteryIsLowField" : null ,
            "isLockCloseSealValidField" : null ,
            "isLockDuressComboUsedField" : null ,
            "isPossibleLockErrorOrIntrusionField" : null ,
            "lockAbbreviatedDeviceIDField" : null ,
            "lockAuditIndexField" : null ,
            "lockCloseSealField" : null ,
            "lockCloseTimeField" : null ,
            "lockFullSealCountField" : null ,
            "lockIPAddressField" : "" ,
            "lockModeField" : 2 ,
            "lockNameField" : "" ,
            "lockOpenTimeField" : null ,
            "lockTransactionCategoryField" : null ,
            "lockTransactionEventField" : null ,
            "lockTransactionTypeField" : null ,
            "logonKeyField" :
            {
                "canTypeField" :
                [
                    255
                ] ,
                "keyIDField" :
                [
                    0 ,
                    0 ,
                    0 ,
                    0 ,
                    0 ,
                    3
                ]
            } ,
            "logonUser1IDField" : "CentranSS" ,
            "logonUser2IDField" : "" ,
            "logonUser3IDField" : "" ,
            "previousDateField" : null ,
            "regionField" : "KENTUCKY" ,
            "routeNameField" : "CentranTest" ,
            "serialNumberField" : "000000" ,
            "user1IDField" : "nr1" ,
            "user1KeyField" :
            {
                "canTypeField" :
                [
                    4
                ] ,
                "keyIDField" :
                [
                    0 ,
                    0 ,
                    0 ,
                    69 ,
                    247 ,
                    75
                ]
            } ,
            "user2IDField" : "nr2" ,
            "user2KeyField" :
            {
                "canTypeField" :
                [
                    4
                ] ,

```



```

        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            69 ,
            249 ,
            70
        ]
    }
},
{
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "ae0e0e17-642a-4ac4-9ab8-07837254e2aa" ,
    "bankBranchIDField" : "-1" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "" ,
    "databaseLockAuditIndexField" : null ,
    "descriptionField" : "nr1 dispatched to route" ,
    "eventDateField" : "\/Date(1236017520000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_DISPATCH_ROUTE" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : null ,
    "isLockCloseSealValidField" : null ,
    "isLockDuressComboUsedField" : null ,
    "isPossibleLockErrorOrIntrusionField" : null ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : null ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : null ,
    "lockIPAddressField" : "" ,
    "lockModeField" : 2 ,
    "lockNameField" : "" ,
    "lockOpenTimeField" : null ,
    "lockTransactionCategoryField" : null ,
    "lockTransactionEventField" : null ,
    "lockTransactionTypeField" : null ,
    "logonKeyField" :
    {
        "canTypeField" :
        [
            255
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            0 ,
            0 ,
            3
        ]
    } ,
    "logonUser1IDField" : "CentranSS" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "Testing" ,
    "routeNameField" : "Gen2Route1" ,
    "serialNumberField" : "000000" ,
    "user1IDField" : "nr1" ,
    "user1KeyField" :
    {
        "canTypeField" :
        [
            4
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            69 ,
            247 ,
            75
        ]
    } ,
    "user2IDField" : "" ,
    "user2KeyField" : null
},
{
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "95aee87a-6697-426c-823a-8b3247cb2291" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,

```

```

"customerIDField" : "" ,
"databaseLockAuditIndexField" : null ,
"descriptionField" : "nrl dispatched to route (failed)" ,
"eventDateField" : "\/Date(1210882760000)\/" ,
"eventResultField" : "54" ,
"eventTypeField" : "ENV_DISPATCH_ROUTE" ,
"groupNameField" : "" ,
"isLockClockBatteryIsLowField" : null ,
"isLockCloseSealValidField" : null ,
"isLockDuressComboUsedField" : null ,
"isPossibleLockErrorOrIntrusionField" : null ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : null ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : null ,
"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "" ,
"lockOpenTimeField" : null ,
"lockTransactionCategoryField" : null ,
"lockTransactionEventField" : null ,
"lockTransactionTypeField" : null ,
"logonKeyField" : null ,
"logonUser1IDField" : "CentranSS" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "Testing" ,
"routeNameField" : "C931456" ,
"serialNumberField" : "000000" ,
"user1IDField" : "nrl" ,
"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
"atMSerialNumberField" : "" ,
"auditPKField" : "c29f6517-d9dd-4100-9a88-f6655530d5ed" ,
"bankBranchIDField" : "-1" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "" ,
"databaseLockAuditIndexField" : null ,
"descriptionField" : "rjohn and nrl dispatched to route" ,
"eventDateField" : "\/Date(1342537160910)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_DISPATCH_ROUTE" ,
"groupNameField" : "" ,
"isLockClockBatteryIsLowField" : null ,
"isLockCloseSealValidField" : null ,
"isLockDuressComboUsedField" : null ,
"isPossibleLockErrorOrIntrusionField" : null ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : null ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : null ,
"lockIPAddressField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "" ,
"lockOpenTimeField" : null ,
"lockTransactionCategoryField" : null ,
"lockTransactionEventField" : null ,
"lockTransactionTypeField" : null ,
"logonKeyField" :
{
"canTypeField" :
[
255
] ,
"keyIDField" :
[
0 ,
0 ,
0 ,
0 ,
0 ,
0 ,
3
]
} ,
"logonUser1IDField" : "CentranSS" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "CentranTest" ,
"serialNumberField" : "000000" ,
"user1IDField" : "rjohn" ,

```

```

        "user1KeyField" :
        {
            "canTypeField" :
            [
                4
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                63 ,
                53 ,
                220
            ]
        } ,
        "user2IDField" : "nr1" ,
        "user2KeyField" :
        {
            "canTypeField" :
            [
                4
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                69 ,
                247 ,
                75
            ]
        }
    }
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Number of audit records matching the given query: 4."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_ACTIVITY_ARCHIVE_QUERYField" :
{
    "auditQueryRecordField" :
    {
        "aTMSerialNumberField" : null ,
        "bankBranchIDMaximumField" : null ,
        "bankBranchIDMinimumField" : null ,
        "bankBranchNameField" : null ,
        "bankModeUserIDMaximumField" : null ,
        "bankModeUserIDMinimumField" : null ,
        "customerIDField" : null ,
        "effectedKeyField" : null ,
        "eventDateEndField" : null ,
        "eventDateEndFieldSpecified" : false ,
        "eventDateStartField" : null ,
        "eventDateStartFieldSpecified" : false ,
        "eventTypeField" : "ENV_DISPATCH_ROUTE" ,
        "ifPossibleLockErrorOrIntrusionField" : false ,
        "ifPossibleLockErrorOrIntrusionFieldSpecified" : false ,
        "ifSearchExactField" : false ,
        "ifSearchExactFieldSpecified" : false ,
        "lockModeField" : 0 ,
        "lockModeFieldSpecified" : false ,
        "lockNameField" : null ,
        "logonKeyField" : null ,
        "networkAddressField" : null ,
        "regionField" : null ,
        "routeNameField" : null ,
        "serialNumberMaximumField" : null ,
        "serialNumberMinimumField" : null ,
        "userIDField" : "nr1"
    } ,
    "dispatcherIDField" : "CentranSS"
}
}

```


3.7.4 Web Service Activity Log Transactions - Activity Log Archive Table Query Record Count

CenTran Programming Reference Manual

This transaction operates in the same manner as the Activity Log Table Query Record Count, but is applied against the Activity Archive Log Table.

Example 1 - Success

Input Transaction Format (HTTP Post):

```
https://{host}/CentranService/rest/archived-event/query-count
```

Example Input Transaction (HTTP Post):

```
https://kml-3242.domain.local/CentranService/rest/archived-event/query-count
```

Example Input Transaction (HTTP Body):

```
<TRANSACTION_ACTIVITY_ARCHIVE_QUERY_COUNT>
  <AuditQueryRecord>
    <!-- char string -->
    <LockName>VLK</LockName>
    <!-- long -->
    <SerialNumberMinimum>530000</SerialNumberMinimum>
    <SerialNumberMaximum>540000</SerialNumberMaximum>
    <!-- date -->
    <EventDateStart>2004-12-24T00:00:00</EventDateStart>
    <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
    <!-- bool -->
    <IfSearchExact>0</IfSearchExact>
  </AuditQueryRecord>
  <!-- char string -->
  <DispatcherID>
</TRANSACTION_ACTIVITY_ARCHIVE_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_ACTIVITY_ARCHIVE_QUERY_COUNT>
  <TRANSACTION_ACTIVITY_ARCHIVE_QUERY_COUNT xmlns="http://www.kaba-
mas.com/CentranTransac.xsd">
    <AuditQueryRecord>
      <LockName>VLK</LockName>
      <SerialNumberMinimum>530000</SerialNumberMinimum>
      <SerialNumberMaximum>540000</SerialNumberMaximum>
      <EventDateStart>2004-12-24T00:00:00</EventDateStart>
      <EventDateEnd>2004-12-24T23:55:00</EventDateEnd>
      <IfSearchExact>0</IfSearchExact>
    </AuditQueryRecord>
    <DispatcherID>SuperUserTestRegionD</DispatcherID>
  </TRANSACTION_ACTIVITY_ARCHIVE_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <Description>Number of audit archive record/s found satisfying the search condition: 2.
  </Description>
  </ResultRecord>
  <QueryCount>2</QueryCount>
</RESPONSE_ACTIVITY_ARCHIVE_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran activity log archive table query record count transaction:

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.

1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the activity log archive table for a count of operations Customer ID **North Bank** and Bank Branch Name **North Bank Branch**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/archived-event/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/archived-event/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "auditQueryRecordField" :
  {
    "aTMSerialNumberField" : null ,
    "bankBranchIDMaximumField" : null ,
    "bankBranchIDMinimumField" : null ,
    "bankBranchNameField" : "North Bank Branch" ,
    "bankModeUserIDMaximumField" : null ,
    "bankModeUserIDMinimumField" : null ,
    "customerIDField" : "North Bank" ,
    "effectuatedKeyField" : null ,
    "eventDateEndField" : null ,
    "eventDateEndFieldSpecified" : false ,
    "eventDateStartField" : null ,
    "eventDateStartFieldSpecified" : false ,
    "eventTypeField" : null ,
    "ifPossibleLockErrorOrIntrusionField" : false ,
    "ifPossibleLockErrorOrIntrusionFieldSpecified" : false ,
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "lockModeField" : 0 ,
    "lockModeFieldSpecified" : false ,
    "lockNameField" : null ,
    "logonKeyField" : null ,
    "networkAddressField" : null ,
    "regionField" : null ,
    "routeNameField" : null ,
    "serialNumberMaximumField" : null ,
    "serialNumberMinimumField" : null ,
    "userIDField" : null
  } ,
  "dispatcherIDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "164" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of audit records matching the given query: 164."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_ACTIVITY_ARCHIVE_QUERY_COUNTField" :
  {
    "auditQueryRecordField" :
    {
      "aTMSerialNumberField" : null ,
      "bankBranchIDMaximumField" : null ,
      "bankBranchIDMinimumField" : null ,
      "bankBranchNameField" : "North Bank Branch" ,
      "bankModeUserIDMaximumField" : null ,
      "bankModeUserIDMinimumField" : null ,
      "customerIDField" : "North Bank" ,
      "effectuatedKeyField" : null ,
      "eventDateEndField" : null ,
      "eventDateEndFieldSpecified" : false ,
      "eventDateStartField" : null ,
      "eventDateStartFieldSpecified" : false ,
      "eventTypeField" : null ,
      "ifPossibleLockErrorOrIntrusionField" : false ,
      "ifPossibleLockErrorOrIntrusionFieldSpecified" : false ,
      "ifSearchExactField" : false ,
      "ifSearchExactFieldSpecified" : false ,

```

```
        "lockModeField" : 0 ,
        "lockModeFieldSpecified" : false ,
        "lockNameField" : null ,
        "logonKeyField" : null ,
        "networkAddressField" : null ,
        "regionField" : null ,
        "routeNameField" : null ,
        "serialNumberMaximumField" : null ,
        "serialNumberMinimumField" : null ,
        "userIDField" : null
    } ,
    "dispatcherIDField" : "CentranSS"
}
```

3.8.1 Web Service Authorization Transactions - Authorization Roles Table Query

CenTran Programming Reference Manual

This transaction queries the Authorization Roles table for a set of Authorization Role records. The input transaction file contains a query record which in turn contains a set of authorization role fields to create a query from. The authorization role query does not have a 'search like' option.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the authorization role records in the role table are retrieved.

- Authorization Role
- Description
- Enabled flag
- If Exclude Special Roles - This excludes roles such as FLM, Route, and Bank that are placeholders for lock key roles.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the role records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error - failed to open authorization role table

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/authorization-role/query
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/authorization-role/query
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_AUTHORIZATION_ROLE_QUERY>
  <AuthorizationRoleQueryRecord>
    <IfAuthorizationRoleEnabled>true</IfAuthorizationRoleEnabled>
    <AuthorizationRole>Dispatcher</AuthorizationRole>
  </AuthorizationRoleQueryRecord>
  <DispatcherID/>
</TRANSACTION_AUTHORIZATION_ROLE_QUERY>
```

Output Transaction:

The transaction succeeds in finding and retrieving an 'Enabled' authorization role named 'Dispatcher'.

```
<RESPONSE_AUTHORIZATION_ROLE_QUERY>
  <TRANSACTION_AUTHORIZATION_ROLE_QUERY>
    <AuthorizationRoleQueryRecord>
      <IfAuthorizationRoleEnabled>true</IfAuthorizationRoleEnabled>
      <AuthorizationRole>Dispatcher</AuthorizationRole>
    </AuthorizationRoleQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_AUTHORIZATION_ROLE_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of authorization role records matching the given query: 1.
  </Description>
  </ResultRecord>
  <AuthorizationRoleRecord>
    <AuthorizationRole>Dispatcher</AuthorizationRole>
    <AuthorizationRoleDescription>Used for normal dispatch and close operations.
  </AuthorizationRoleDescription>
    <IfAuthorizationRoleEnabled>true</IfAuthorizationRoleEnabled>
  </AuthorizationRoleRecord>
</RESPONSE_AUTHORIZATION_ROLE_QUERY>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran authorization roles table query transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the authorization role table to determine what authorization roles are present.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/authorization-role/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/authorization-role/query
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "authorizationRoleQueryRecordField" :
  {
    "authorizationRoleDescriptionField" : null ,
    "authorizationRoleField" : null ,
    "ifAuthorizationRoleEnabledField" : false ,
    "ifAuthorizationRoleEnabledFieldSpecified" : false ,
    "ifExcludeSpecialRolesField" : false ,
    "ifExcludeSpecialRolesFieldSpecified" : false
  } ,
  "dispatcherIDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "authorizationRoleRecordField" :
  [
    {
      "authorizationRoleDescriptionField" : "Used for setting up locks for installation." ,
      "authorizationRoleField" : "Activate Only" ,
      "ifAuthorizationRoleEnabledField" : true
    } ,
    {
      "authorizationRoleDescriptionField" : "A new role" ,
      "authorizationRoleField" : "ARole" ,
      "ifAuthorizationRoleEnabledField" : true
    } ,
    {
      "authorizationRoleDescriptionField" : "testing..." ,
      "authorizationRoleField" : "Authorization Testing" ,
      "ifAuthorizationRoleEnabledField" : true
    } ,
    {
      "authorizationRoleDescriptionField" : "Void authorization role for Bank lock keys." ,
      "authorizationRoleField" : "Bank" ,
      "ifAuthorizationRoleEnabledField" : true
    } ,
    {
      "authorizationRoleDescriptionField" : "Used for Bank Mode only installations (Default Role)." ,
      "authorizationRoleField" : "Bank Mode Only" ,
      "ifAuthorizationRoleEnabledField" : true
    } ,
    {
      "authorizationRoleDescriptionField" : "" ,
      "authorizationRoleField" : "Copied Supervisor Role" ,
      "ifAuthorizationRoleEnabledField" : true
    } ,
    {
      "authorizationRoleDescriptionField" : "IVR description" ,
      "authorizationRoleField" : "Copy IVR" ,
      "ifAuthorizationRoleEnabledField" : true
    } ,
    {
      "authorizationRoleDescriptionField" : "Customer dispatching for Detroit" ,

```

```

        "authorizationRoleField" : "Detroit Dispatching" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Used for normal dispatch and close operations." ,
        "authorizationRoleField" : "Dispatcher" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Used for authorization testing" ,
        "authorizationRoleField" : "Dispatcher Bank Only" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Used for authorization testing" ,
        "authorizationRoleField" : "Dispatcher FLM Only" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Demo Authorization Role" ,
        "authorizationRoleField" : "Dispatcher Plus" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Used for authorization testing" ,
        "authorizationRoleField" : "Dispatcher Route Only" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Test of copy" ,
        "authorizationRoleField" : "Dispatcher Route Only Copy" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Modified Dispatcher..." ,
        "authorizationRoleField" : "Dispatcher2" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Used for performing the basic FLM and Route
operations (Default Role)." ,
        "authorizationRoleField" : "F\\R Mode Basic Functions" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Void authorization role for FLM lock keys." ,
        "authorizationRoleField" : "FLM" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Role for IVR System operations." ,
        "authorizationRoleField" : "IVR System" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Lock operations in Kentucky." ,
        "authorizationRoleField" : "Kentucky Management" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Used for updating lock user key times only." ,
        "authorizationRoleField" : "Key Maintenance Only" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Test Role..." ,
        "authorizationRoleField" : "LeeDispatcher" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Testing..." ,
        "authorizationRoleField" : "Lee's Authorization Testing" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "More Testing..." ,
        "authorizationRoleField" : "Lee's Authorization Testing 2" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Used for doing reports." ,
        "authorizationRoleField" : "Reporting" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Void authorization role for Route lock keys." ,
        "authorizationRoleField" : "Route" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {

```

```

        "authorizationRoleDescriptionField" : "" ,
        "authorizationRoleField" : "Some Test Role" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Automatically fully authorized for any operation." ,
        "authorizationRoleField" : "Special Supervisor" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Used for normal management operations." ,
        "authorizationRoleField" : "Supervisor" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "Modified Supervisor" ,
        "authorizationRoleField" : "Supervisor2" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "" ,
        "authorizationRoleField" : "Supervisor3" ,
        "ifAuthorizationRoleEnabledField" : true
    } ,
    {
        "authorizationRoleDescriptionField" : "quantity test" ,
        "authorizationRoleField" : "VicSuper" ,
        "ifAuthorizationRoleEnabledField" : true
    }
] ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Number of authorization role records matching the given query: 31."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_AUTHORIZATION_ROLE_QUERYField" :
{
    "authorizationRoleQueryRecordField" :
    {
        "authorizationRoleDescriptionField" : null ,
        "authorizationRoleField" : null ,
        "ifAuthorizationRoleEnabledField" : false ,
        "ifAuthorizationRoleEnabledFieldSpecified" : false ,
        "ifExcludeSpecialRolesField" : false ,
        "ifExcludeSpecialRolesFieldSpecified" : false
    } ,
    "dispatcherIDField" : "CentranSS"
}
}

```

3.8.2 Web Service Authorization Transactions - Authorization Roles Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the authorization roles table matching the given query condition. This transaction uses the same format as the Authorization Roles Table Query transaction.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/authorization-role/query-count
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/authorization-role/query-count
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_AUTHORIZATION_ROLE_QUERY_COUNT>
  <AuthorizationRoleQueryRecord>
    <IfAuthorizationRoleEnabled>true</IfAuthorizationRoleEnabled>
    <AuthorizationRole>Dispatcher</AuthorizationRole>
  </AuthorizationRoleQueryRecord>
  <DispatcherID/>
</TRANSACTION_AUTHORIZATION_ROLE_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_AUTHORIZATION_ROLE_QUERY_COUNT>
  <TRANSACTION_AUTHORIZATION_ROLE_QUERY_COUNT>
    <AuthorizationRoleQueryRecord>
      <IfAuthorizationRoleEnabled>true</IfAuthorizationRoleEnabled>
      <AuthorizationRole>Dispatcher</AuthorizationRole>
    </AuthorizationRoleQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_AUTHORIZATION_ROLE_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of authorization role records matching the given query: 1.
  </Description>
  </ResultRecord>
  <QueryCount>1</QueryCount>
</RESPONSE_AUTHORIZATION_ROLE_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran authorization role table query record count transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the authorization role table for a count of available logon roles only, not lock user roles.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/archived-event/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/archived-event/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "authorizationRoleQueryRecordField" :
  {
    "authorizationRoleDescriptionField" : null ,
    "authorizationRoleField" : null ,
    "ifAuthorizationRoleEnabledField" : false ,
    "ifAuthorizationRoleEnabledFieldSpecified" : false ,
    "ifExcludeSpecialRolesField" : true ,
    "ifExcludeSpecialRolesFieldSpecified" : true
  } ,
  "dispatcherIDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "27" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of authorization role records matching the given query: 27."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_AUTHORIZATION_ROLE_QUERY_COUNTField" :
  {
    "authorizationRoleQueryRecordField" :
    {
      "authorizationRoleDescriptionField" : null ,
      "authorizationRoleField" : null ,
      "ifAuthorizationRoleEnabledField" : false ,
      "ifAuthorizationRoleEnabledFieldSpecified" : false ,
      "ifExcludeSpecialRolesField" : true ,
      "ifExcludeSpecialRolesFieldSpecified" : true
    } ,
    "dispatcherIDField" : "CentranSS"
  }
}
```

3.8.3 Web Service Authorization Transactions - Authorization Operation Names Table Query

CenTran Programming Reference Manual

This transaction queries the authorization operation names table for a set of authorization operation name records. The query record passed contains a set of operation names fields to create a query from. This query does not have a 'search like' option.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the authorization operation names records in the operation names table are retrieved.

- Authorization Operation Name
- Authorization Operation Category

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the operation names records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error - failed to open authorization operation names table

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/authorization-operation/query
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/authorization-operation/query
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_AUTHORIZATION_OPERATION_QUERY>
  <AuthorizationOperationQueryRecord>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationQueryRecord>
  <DispatcherID/>
</TRANSACTION_AUTHORIZATION_OPERATION_QUERY>
```

Output Transaction:

The transaction succeeds and all authorization operation names are retrieved.

```
<RESPONSE_AUTHORIZATION_OPERATION_QUERY>
  <TRANSACTION_AUTHORIZATION_OPERATION_QUERY>
    <AuthorizationOperationQueryRecord>
      <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
    </AuthorizationOperationQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_AUTHORIZATION_OPERATION_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of authorization operation name records matching the given query:
6.</Description>
  </ResultRecord>
  <AuthorizationOperationRecord>
    <AuthorizationOperationName>Add Customer</AuthorizationOperationName>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationRecord>
  <AuthorizationOperationRecord>
    <AuthorizationOperationName>Customer Table Query</AuthorizationOperationName>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationRecord>
  <AuthorizationOperationRecord>
    <AuthorizationOperationName>Delete Customer</AuthorizationOperationName>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationRecord>
  <AuthorizationOperationRecord>
    <AuthorizationOperationName>Read Customer Data</AuthorizationOperationName>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationRecord>
  <AuthorizationOperationRecord>
    <AuthorizationOperationName>Rename Customer</AuthorizationOperationName>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationRecord>
  <AuthorizationOperationRecord>
```

```

    <AuthorizationOperationName>Update Customer</AuthorizationOperationName>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationRecord>
</RESPONSE_AUTHORIZATION_OPERATION_QUERY>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran authorization operation name table query transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the authorization operation name table to determine what user category authorization names are present.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/authorization-operation/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/authorization-operation/query
```

Example Input Transaction (HTTP Body) - JSON:

```

{
  "authorizationOperationQueryRecordField" :
  {
    "authorizationOperationCategoryField" : "User" ,
    "authorizationOperationNameField" : null
  } ,
  "dispatcherIDField" : null
}

```

Example Output Transaction - JSON:

```

{
  "authorizationOperationRecordField" :
  [
    {
      "authorizationOperationCategoryField" : "User" ,
      "authorizationOperationNameField" : "Change Other User Password"
    } ,
    {
      "authorizationOperationCategoryField" : "User" ,
      "authorizationOperationNameField" : "Change User Nickname"
    } ,
    {
      "authorizationOperationCategoryField" : "User" ,
      "authorizationOperationNameField" : "Change User Open Windows"
    } ,
    {
      "authorizationOperationCategoryField" : "User" ,
      "authorizationOperationNameField" : "Create User"
    } ,
    {
      "authorizationOperationCategoryField" : "User" ,
      "authorizationOperationNameField" : "Delete User"
    } ,
    {
      "authorizationOperationCategoryField" : "User" ,
      "authorizationOperationNameField" : "Read User Data"
    } ,
    {
      "authorizationOperationCategoryField" : "User" ,

```

```

        "authorizationOperationNameField" : "Rename User"
    } ,
    {
        "authorizationOperationCategoryField" : "User" ,
        "authorizationOperationNameField" : "Report On User Key"
    } ,
    {
        "authorizationOperationCategoryField" : "User" ,
        "authorizationOperationNameField" : "Set Clock In User Key"
    } ,
    {
        "authorizationOperationCategoryField" : "User" ,
        "authorizationOperationNameField" : "Update User Data"
    } ,
    {
        "authorizationOperationCategoryField" : "User" ,
        "authorizationOperationNameField" : "User Table Archive Query"
    } ,
    {
        "authorizationOperationCategoryField" : "User" ,
        "authorizationOperationNameField" : "User Table History Query"
    } ,
    {
        "authorizationOperationCategoryField" : "User" ,
        "authorizationOperationNameField" : "User Table Query"
    }
    ] ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Number of authorization operation name records matching the given query: 13."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_AUTHORIZATION_OPERATION_QUERYField" :
    {
        "authorizationOperationQueryRecordField" :
        {
            "authorizationOperationCategoryField" : "User" ,
            "authorizationOperationNameField" : null
        } ,
        "dispatcherIDField" : "CentranSS"
    }
}

```


3.8.4 Web Service Authorization Transactions - Authorization Operation Names Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the operation names table matching the given query condition. This transaction uses the same format as the Authorization Operation Names Table Query transaction.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/authorization-operation/query-count
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/authorization-operation/query-count
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_AUTHORIZATION_OPERATION_QUERY_COUNT>
  <AuthorizationOperationQueryRecord>
    <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
  </AuthorizationOperationQueryRecord>
  <DispatcherID/>
</TRANSACTION_AUTHORIZATION_OPERATION_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_AUTHORIZATION_OPERATION_QUERY_COUNT>
  <TRANSACTION_AUTHORIZATION_OPERATION_QUERY_COUNT>
    <AuthorizationOperationQueryRecord>
      <AuthorizationOperationCategory>Customer</AuthorizationOperationCategory>
    </AuthorizationOperationQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_AUTHORIZATION_OPERATION_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of authorization operation name records matching the given query:
6.</Description>
  </ResultRecord>
  <QueryCount>6</QueryCount>
</RESPONSE_AUTHORIZATION_OPERATION_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran authorization operation name table query record count transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the authorization operation name table to determine how many user category authorization names are present.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/authorization-operation/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/authorization-operation/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "authorizationOperationQueryRecordField" :
  {
    "authorizationOperationCategoryField" : "User" ,
    "authorizationOperationNameField" : null
  } ,
  "dispatcherIDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "13" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of authorization operation name records matching the given query: 13."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_AUTHORIZATION_OPERATION_QUERY_COUNTField" :
  {
    "authorizationOperationQueryRecordField" :
    {
      "authorizationOperationCategoryField" : "User" ,
      "authorizationOperationNameField" : null
    } ,
    "dispatcherIDField" : "CentranSS"
  }
}
```

3.8.5 Web Service Authorization Transactions - Authorization Definition Table Query

CenTran Programming Reference Manual

This transaction queries the authorization definition table for a set of authorization definition records. The query record passed contains a set of definition fields to create a query from. The authorization definition query does not have a 'search like' option.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the authorization definition records in the definition table are retrieved.

- Authority Role
- Operation Name
- Operation Type
- Operation Parameter 1

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the authorization definition records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error - failed to open authorization definition table

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/authorization-definition/query
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/authorization-definition/query
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_AUTHORIZATION_DEFINITION_QUERY>
  <AuthorizationDefinitionQueryRecord>
    <AuthorizationOperationType>FLM</AuthorizationOperationType>
    <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
  </AuthorizationDefinitionQueryRecord>
  <DispatcherID/>
</TRANSACTION_AUTHORIZATION_DEFINITION_QUERY>
```

Output Transaction:

The transaction successfully retrieves all the roles authorized to activate a lock in FLM mode.

```
<RESPONSE_AUTHORIZATION_DEFINITION_QUERY>
  <TRANSACTION_AUTHORIZATION_DEFINITION_QUERY>
    <AuthorizationDefinitionQueryRecord>
      <AuthorizationOperationType>FLM</AuthorizationOperationType>
      <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
    </AuthorizationDefinitionQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_AUTHORIZATION_DEFINITION_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of authorization definition records matching the given query: 3.
  </Description>
</ResultRecord>
  <AuthorizationDefinitionRecord>
    <AuthorizationRole>Activate Only</AuthorizationRole>
    <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
    <AuthorizationOperationType>FLM</AuthorizationOperationType>
    <AuthorizationOperationParameter1/>
  </AuthorizationDefinitionRecord>
  <AuthorizationDefinitionRecord>
    <AuthorizationRole>F/R Mode Basic Functions</AuthorizationRole>
    <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
    <AuthorizationOperationType>FLM</AuthorizationOperationType>
    <AuthorizationOperationParameter1/>
  </AuthorizationDefinitionRecord>
  <AuthorizationDefinitionRecord>
    <AuthorizationRole>Supervisor</AuthorizationRole>
    <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
    <AuthorizationOperationType>FLM</AuthorizationOperationType>
    <AuthorizationOperationParameter1/>
```

```
</AuthorizationDefinitionRecord>
</RESPONSE_AUTHORIZATION_DEFINITION_QUERY>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran authorization definition table query transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the authorization definition table to determine what bank mode operations a dispatcher is permitted to do.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/authorization-definition/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/authorization-definition/query
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "authorizationDefinitionQueryRecordField" :
  {
    "authorizationOperationNameField" : null ,
    "authorizationOperationParameter1Field" : null ,
    "authorizationOperationTypeField" : "Bank" ,
    "authorizationRoleField" : "Dispatcher"
  } ,
  "dispatcherIDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "authorizationDefinitionRecordField" :
  [
    {
      "authorizationOperationNameField" : "Add Users To Lock" ,
      "authorizationOperationParameter1Field" : "" ,
      "authorizationOperationTypeField" : "Bank" ,
      "authorizationRoleField" : "Dispatcher"
    } ,
    {
      "authorizationOperationNameField" : "Change Other User Password" ,
      "authorizationOperationParameter1Field" : "" ,
      "authorizationOperationTypeField" : "Bank" ,
      "authorizationRoleField" : "Dispatcher"
    } ,
    {
      "authorizationOperationNameField" : "Change User Combination" ,
      "authorizationOperationParameter1Field" : "" ,
      "authorizationOperationTypeField" : "Bank" ,
      "authorizationRoleField" : "Dispatcher"
    } ,
    {
      "authorizationOperationNameField" : "Change User Nickname" ,
      "authorizationOperationParameter1Field" : "" ,
      "authorizationOperationTypeField" : "Bank" ,
      "authorizationRoleField" : "Dispatcher"
    } ,
    {
      "authorizationOperationNameField" : "Change User Open Windows" ,
```

```

        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Delete Users From Lock" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Deleted Lock History Table Query" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Initialize a Clock Set Key" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Initialize Key Clock" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Initialize Key to Retrieve Bank Users" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Initialize Lock Resync Key" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Audit Report Across Serial" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Collection Lock Table Query" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Collection Table Query" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Log History Table Query" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Log Table Query" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Open Alarm Query" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Operations Network" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Operations Serial" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Report Across Serial" ,

```

```

        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Set Access Single Dual" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Set Clock Across Serial" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Set TZ DST Table" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Lock Table Query" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Map Lock Location" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Read Lock Data" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Read Lock Resync Key" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Read User Data" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Rename User" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Report On Key" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Update Lock Data" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "Update User Data" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "User Table History Query" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    } ,
    {
        "authorizationOperationNameField" : "User Table Query" ,
        "authorizationOperationParameter1Field" : "" ,
        "authorizationOperationTypeField" : "Bank" ,
        "authorizationRoleField" : "Dispatcher"
    }
    ] ,
    "resultRecordField" :

```

```

{
  "descriptionField" :
  [
    "Number of authorization definition records matching the given query: 34."
  ] ,
  "errorCodeField" : "RC_OK" ,
  "ifRetryValidField" : false ,
  "resultField" : 0
} ,
"tTRANSACTION_AUTHORIZATION_DEFINITION_QUERYField" :
{
  "authorizationDefinitionQueryRecordField" :
  {
    "authorizationOperationNameField" : null ,
    "authorizationOperationParameter1Field" : null ,
    "authorizationOperationTypeField" : "Bank" ,
    "authorizationRoleField" : "Dispatcher"
  } ,
  "dispatcherIDField" : "CentranSS"
}
}

```

3.8.6 Web Service Authorization Transactions - Authorization Definition Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the authorization definition table matching the given query condition. This transaction uses the same format as the Authorization Definition Table Query transaction.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/authorization-definition/query-count
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/authorization-definition/query-count
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_AUTHORIZATION_DEFINITION_QUERY_COUNT>
  <AuthorizationDefinitionQueryRecord>
    <AuthorizationOperationType>FLM</AuthorizationOperationType>
    <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
  </AuthorizationDefinitionQueryRecord>
  <DispatcherID/>
</TRANSACTION_AUTHORIZATION_DEFINITION_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_AUTHORIZATION_DEFINITION_QUERY_COUNT>
  <TRANSACTION_AUTHORIZATION_DEFINITION_QUERY_COUNT>
    <AuthorizationDefinitionQueryRecord>
      <AuthorizationOperationType>FLM</AuthorizationOperationType>
      <AuthorizationOperationName>Activate Lock</AuthorizationOperationName>
    </AuthorizationDefinitionQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_AUTHORIZATION_DEFINITION_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of audit records matching the given query: 3.</Description>
  </ResultRecord>
  <QueryCount>3</QueryCount>
</RESPONSE_AUTHORIZATION_DEFINITION_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran authorization definition table query record count transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 2 - JSON

This example queries the authorization definition table to determine the count of different operations a dispatcher is permitted to do.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/authorization-definition/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/authorization-definition/query-count
```


Example Input Transaction (HTTP Body) - JSON:

```
{
  "authorizationDefinitionQueryRecordField" :
  {
    "authorizationOperationNameField" : null ,
    "authorizationOperationParameter1Field" : null ,
    "authorizationOperationTypeField" : null ,
    "authorizationRoleField" : "Dispatcher"
  } ,
  "dispatcherIDField" : null
}
```

Example Output Transaction - JSON:

```
{
  "queryCountField" : "146" ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of audit records matching the given query: 146."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tRANSACTION_AUTHORIZATION_DEFINITION_QUERY_COUNTField" :
  {
    "authorizationDefinitionQueryRecordField" :
    {
      "authorizationOperationNameField" : null ,
      "authorizationOperationParameter1Field" : null ,
      "authorizationOperationTypeField" : null ,
      "authorizationRoleField" : "Dispatcher"
    } ,
    "dispatcherIDField" : "CentranSS"
  }
}
```

3.9.1 Web Service Region Transactions - Add Region

CenTran Programming Reference Manual

This transaction adds a region to the Cencon database region table. The region name must be a unique value.

Both locks and users can be assigned to a region. If a region has assigned locks and users, it can't be deleted.

If region control is set to be active in the Cencon system, then regions are used to restrict what data can be seen by those dispatch users without authorization to view information outside of their assigned region. Additionally, lock users can only be dispatched or assigned to locks within the same assigned region.

The Cencon system has two aspects of authorization. The first is the concept of authorization roles, which restricts what operations or transactions a user can do. The second is the concept of regions, which restricts what set of information a user has access to or what locks a lock user can be dispatched / assigned to. Region control can be set on or off, depending on your operational requirements.

There are two basic categories of users in the Cencon system. The first basic category is the lock users (FLM / Route / Bank) who are dispatched to open locks, or are assigned to be able to open a lock in bank mode. The second basic category is the Cencon / CenTran logon users, which can log onto either Cencon or access CenTran to do management and lock dispatch operations.

Region control affects the category of lock users by restricting what locks the users can be dispatched or assigned to.

Region control affects the category of Cencon / CenTran logon users by restricting what locks and users the log on user can view in Cencon or do operations to.

Individual regions have a flag associated with it, called region type. If the region type is 0, or regional, then the region affects both lock users and Cencon / CenTran logon users. If the region type is 1, or global, then the region affects lock users being dispatched / assigned to locks in the same region, but does not affect Cencon / CenTran logon users being able to view or manage information.

Having a region that is set as global, with a region type of 1, allows you to have a region assigned to Cencon / CenTran log on users at your corporate headquarters that are not restricted by region control. The region control affects lock users and locks in the same way, and affects Cencon / CenTran log on users in other regions in the same way, but your Cencon / CenTran log on users assigned to a region set as global are not affected.

Transaction information required:

- Region Name (Unique 64 character identifier)
- Region Type (1 is global, 0 is regional) (Optional, defaults to 0, regional)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Region Name
- Region already exists
- Not authorized due to authorization role

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/region/add
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/region/add
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_ADD_REGION>
  <RegionRecord>
    <RegionName>Nashville</RegionName>
    <RegionType>0</RegionType>
  </RegionRecord>
  <DispatcherID/>
</TRANSACTION_ADD_REGION>
```

Output Transaction:

The region is added successfully to the region table in the database. The output transaction has the original input transaction (TRANSACTION_ADD_REGION) and a result record (indicating success).

```
<RESPONSE_ADD_REGION>
  <TRANSACTION_ADD_REGION>
    <RegionRecord>
      <RegionName>Nashville</RegionName>
      <RegionType>0</RegionType>
    </RegionRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_REGION>
```

```

<ResultRecord>
  <Result>Success</Result>
  <ErrorCode>RC_OK</ErrorCode>
  <IfRetryValid>>false</IfRetryValid>
  <Description>Region Nashville successfully added to the database.</Description>
</ResultRecord>
</RESPONSE_ADD_REGION>

```

Example 2 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/region/add
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/region/add
```

Input Transaction: (HTTP Body)

```

<TRANSACTION_ADD_REGION>
  <RegionRecord>
    <RegionName>Kentucky</RegionName>
    <RegionType>0</RegionType>
  </RegionRecord>
  <DispatcherID/>
</TRANSACTION_ADD_REGION>

```

Output Transaction:

In this example, region **Kentucky** already exists in the region table.

```

<RESPONSE_ADD_REGION>
  <TRANSACTION_ADD_REGION>
    <RegionRecord>
      <RegionName>Kentucky</RegionName>
      <RegionType>0</RegionType>
    </RegionRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_ADD_REGION>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_ADD_REGION_ALREADY_EXISTS</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Region Kentucky already exists.</Description>
  </ResultRecord>
</RESPONSE_ADD_REGION>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran add region transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example adds a region named **Timbuktu**. The value of **0** for **regionTypeField** indicates logon users assigned to this region are only able to see users and locks also assigned to this region.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/region/add
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/region/add
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "regionRecordField" :
  {
    "regionNameField" : "Timbuktu" ,
    "regionTypeField" : "0"
  }
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Region Timbuktu successfully added to the database."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_ADD_REGIONField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "regionRecordField" :
    {
      "regionNameField" : "Timbuktu" ,
      "regionTypeField" : "0"
    }
  }
}
```

3.9.2 Web Service Region Transactions - Read Region

CenTran Programming Reference Manual

This transaction reads a region from the database.

Transaction information required:

- Region Name

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the region record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Region does not exist
- Not authorized due to authorization role

Example 1 - Success

Input Transaction Format: (HTTP Get)

```
https://{host}/CentranService/rest/region/{regionname}/data
```

Example Input Transaction: (HTTP Get)

Note spaces are replaced by %20 within URLs.

```
https://kml-3242.domain.local/CentranService/rest/region/East%20Bank/data
```

Output Transaction:

```
<RESPONSE_READ_REGION>
  <TRANSACTION_READ_REGION>
    <RegionName>East Bank</RegionName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_REGION>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Success</Description>
  </ResultRecord>
  <RegionRecord>
    <RegionName>East Bank</RegionName>
    <RegionType>1</RegionType>
  </RegionRecord>
</RESPONSE_READ_REGION>
```

Example 2 - Failure

Input Transaction Format: (HTTP Get)

```
https://{host}/CentranService/rest/region/{regionname}/data
```

Example Input Transaction: (HTTP Get)

```
https://kml-3242.domain.local/CentranService/rest/region/NotValidRegion/data
```

Output Transaction:

Here, region **NotValidRegion** does not exist in the Cencon database region table.

```
<RESPONSE_READ_REGION>
  <TRANSACTION_READ_REGION>
    <RegionName>NotValidRegion</RegionName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_READ_REGION>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_REGION_NOT_FOUND</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to find the region in the database region table. The region name
is not in the database region table.</Description>
  </ResultRecord>
</RESPONSE_READ_REGION>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran read region transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example reads a region named **Timbuktu**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/{regionname}/data
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/Timbuktu/data
```

Example Output Transaction - JSON:

```
{
  "regionRecordField" :
  {
    "regionNameField" : "Timbuktu" ,
    "regionTypeField" : "0"
  } ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Success"
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_READ_REGIONField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "regionNameField" : "Timbuktu"
  }
}
```

3.9.3 Web Service Region Transactions - Update Region

CenTran Programming Reference Manual

This transaction updates data for an existing region in the database. The region fields to be updated have to be specified in the input transaction. Those region fields that are not specified in the input transaction will not be changed from their current values. The only region field that can be updated is the region type flag for global versus regional.

Transaction information required:

- Region Name
- Region Type (1 is global, 0 is regional) (Optional)

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and the updated region record.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Region Name
- Region does not exist
- Not authorized due to authorization role

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/region/update
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/region/update
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_UPDATE_REGION>
  <UpdateRegionRecord>
    <RegionName>Kentucky</RegionName>
    <RegionType>1</RegionType>
  </UpdateRegionRecord>
  <DispatcherID/>
</TRANSACTION_UPDATE_REGION>
```

Output Transaction:

The output transaction has the original input transaction (TRANSACTION_UPDATE_REGION), a result record (indicating success) and the updated region record with new region type value.

```
<RESPONSE_UPDATE_REGION>
  <TRANSACTION_UPDATE_REGION>
    <UpdateRegionRecord>
      <RegionName>Kentucky</RegionName>
      <RegionType>1</RegionType>
    </UpdateRegionRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_REGION>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Region KENTUCKY successfully updated in the database.</Description>
  </ResultRecord>
</RESPONSE_UPDATE_REGION>
```

Example 2 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/region/update
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/region/update
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_UPDATE_REGION>
  <UpdateRegionRecord>
    <RegionName>NoValidRegion</RegionName>
    <RegionType>1</RegionType>
  </UpdateRegionRecord>
```

```
<DispatcherID/>
</TRANSACTION_UPDATE_REGION>
```

Output Transaction:

The transaction fails because the region name **NoValidRegion** does not exist in the Cencon database region table.

```
<RESPONSE_UPDATE_REGION>
  <TRANSACTION_UPDATE_REGION>
    <UpdateRegionRecord>
      <RegionName>NoValidRegion</RegionName>
      <RegionType>1</RegionType>
    </UpdateRegionRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_UPDATE_REGION>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_REGION_NOT_FOUND</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Failed to find region NoValidRegion in the region table.</Description>
  </ResultRecord>
</RESPONSE_UPDATE_REGION>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a **+** indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran update region transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example updates a region named **Timbuktu**. The new value of **1** for **regionTypeField** indicates logon users assigned to this region are able to see users and locks not assigned to this region.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/region/update
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/region/update
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "updateRegionRecordField" :
  {
    "regionNameField" : "Timbuktu" ,
    "regionTypeField" : "1"
  }
}
```

Example Output Transaction - JSON:

```
{
  "regionRecordField" : null ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Region Timbuktu successfully updated in the database."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_UPDATE_REGIONField" :
```



```
{
  "dispatcherIDField" : "CentranSS" ,
  "updateRegionRecordField" :
  {
    "regionNameField" : "Timbuktu" ,
    "regionTypeField" : "1"
  }
}
```

3.9.4 Web Service Region Transactions - Delete Region

CenTran Programming Reference Manual

This transaction deletes a region from the database.

Transaction information required:

- Region Name

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description).

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Invalid Region Name
- Region does not exist
- Not authorized due to authorization role

Example 1 - Failure

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/region/delete
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/region/delete
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_DELETE_REGION>
  <RegionName>NoRegion</RegionName>
  <DispatcherID/>
</TRANSACTION_DELETE_REGION>
```

Output Transaction:

```
<RESPONSE_DELETE_REGION>
  <TRANSACTION_DELETE_REGION>
    <RegionName>NoRegion</RegionName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_REGION>
  <ResultRecord>
    <Result>Failure</Result>
    <ErrorCode>RC_ERR_REGION_NOT_FOUND</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Failed to find region NoRegion in the region table.</Description>
  </ResultRecord>
</RESPONSE_DELETE_REGION>
```

Example 2 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/region/delete
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/region/delete
```

Input Transaction: (HTTP Body)

```
<TRANSACTION_DELETE_REGION>
  <RegionName>North East Bank Region</RegionName>
  <DispatcherID/>
</TRANSACTION_DELETE_REGION>
```

Output Transaction:

```
<RESPONSE_DELETE_REGION>
  <TRANSACTION_DELETE_REGION>
    <RegionName>North East Bank Region</RegionName>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_DELETE_REGION>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
  </ResultRecord>
</RESPONSE_DELETE_REGION>
```

```
<Description>Region North East Bank Region has been deleted successfully.</Description>
</ResultRecord>
</RESPONSE_DELETE_REGION>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran delete region transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example deletes a region named **Timbuktu**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/region/delete
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/region/delete
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "regionNameField" : "Timbuktu"
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Region Timbuktu has been deleted successfully."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_DELETE_REGIONField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "regionNameField" : "Timbuktu"
  }
}
```

3.9.5 Web Service Region Transactions - Region Table Query

CenTran Programming Reference Manual

This transaction queries the region table for a set of region records. The query record passed contains a set of region fields to create a query from. The region query does not have a 'like search' option.

Transaction information required:

All the fields listed below are optional. If no fields are present in the query record, then all the region records are retrieved from the region table.

- Region Name
- Region Type

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

Input transaction, followed by a result record (result, error code and description) and all the region records matching the given search query. If no records are returned by the search query, the result of the transaction is still deemed a success.

Failure:

Input transaction, followed by a result record (result, error code and description).

Examples of Failure Conditions (for an extensive list with error codes, refer to Appendix A):

- Dispatcher not authorized to do this operation
- Database error - failed to open region table

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/region/query
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/region/query
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_REGION_QUERY>
  <RegionQueryRecord>
    <RegionName>East</RegionName>
  </RegionQueryRecord>
  <DispatcherID/>
</TRANSACTION_REGION_QUERY>
```

Output Transaction:

The transaction retrieves all regions that have East in the name.

```
<RESPONSE_REGION_QUERY>
  <TRANSACTION_REGION_QUERY>
    <RegionQueryRecord>
      <RegionName>East</RegionName>
    </RegionQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_REGION_QUERY>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of region records matching the given query: 1.</Description>
  </ResultRecord>
  <RegionRecord>
    <RegionName>East Bank</RegionName>
    <RegionType>1</RegionType>
  </RegionRecord>
</RESPONSE_REGION_QUERY>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the

enumerated value name. The following enumerated values are present in the CenTran region table query transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example queries the region table for a region named **Timbuktu**.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/region/query
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/region/query
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
  "regionQueryRecordField" :
  {
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "regionNameField" : "Timbuktu" ,
    "regionTypeField" : ""
  }
}
```

Example Output Transaction - JSON:

```
{
  "regionRecordField" :
  [
    {
      "regionNameField" : "Timbuktu" ,
      "regionTypeField" : "1"
    }
  ] ,
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Number of region records matching the given query: 1."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_REGION_QUERYField" :
  {
    "dispatcherIDField" : "CentranSS" ,
    "regionQueryRecordField" :
    {
      "ifSearchExactField" : false ,
      "ifSearchExactFieldSpecified" : false ,
      "regionNameField" : "Timbuktu" ,
      "regionTypeField" : ""
    }
  }
}
```

3.9.6 Web Service Region Transactions - Region Table Query Record Count

CenTran Programming Reference Manual

This transaction returns the number of records in the region table query matching the given query condition. This transaction uses the same format as the Region Table Query transaction.

Example 1 - Success

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/region/query-count
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/region/query-count
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_REGION_QUERY_COUNT>
  <RegionQueryRecord>
    <RegionType>0</RegionType>
  </RegionQueryRecord>
  <DispatcherID/>
</TRANSACTION_REGION_QUERY_COUNT>
```

Output Transaction:

```
<RESPONSE_REGION_QUERY_COUNT>
  <TRANSACTION_REGION_QUERY_COUNT>
    <RegionQueryRecord>
      <RegionType>0</RegionType>
    </RegionQueryRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_REGION_QUERY_COUNT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Number of region records matching the given query: 19.</Description>
  </ResultRecord>
  <QueryCount>19</QueryCount>
</RESPONSE_REGION_QUERY_COUNT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran region table query record count transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

Example 3 - JSON

This example queries the region table for a count of regions assigned as global, not restricting logon user access to locks and users in the same region.

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/region/query-count
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/region/query-count
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "dispatcherIDField" : null ,
```

```

"regionQueryRecordField" :
{
    "ifSearchExactField" : false ,
    "ifSearchExactFieldSpecified" : false ,
    "regionNameField" : null ,
    "regionTypeField" : "1"
}
}

```

Example Output Transaction - JSON:

```

{
    "queryCountField" : "25" ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Number of region records matching the given query: 25."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_REGION_QUERY_COUNTField" :
    {
        "dispatcherIDField" : "CentranSS" ,
        "regionQueryRecordField" :
        {
            "ifSearchExactField" : false ,
            "ifSearchExactFieldSpecified" : false ,
            "regionNameField" : null ,
            "regionTypeField" : "1"
        }
    }
}

```

3.10.1 Web Service Remote Lock Management - Query Lock Status Across Network

CenTran Programming Reference Manual

This transaction is used to query the hardware and operational status of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- Lock IP Address and Port - Specifies the lock to connect to from CenTran to read the lock status from.
- Lock Communications ID - Specifies an alternate identification of a lock to connect to from CenTran to read the lock status. This is to support alternate methods of handling remote communications with locks for various network topologies.
- Lock Communications Method - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock operational status record
- Lock hardware status record
- Up to three records with lock mode status record and matching lock record data from the Cencon database, for each mode of the lock you have security access to in your Cencon database.

Failure:

- Result record indicating failure

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/status
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CenTranService/rest/lock/status
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_STATUS>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_STATUS>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_STATUS>
  <TRANSACTION_LOCK_REMOTE_STATUS>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_STATUS>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock status queried from lock successfully.</Description>
  </ResultRecord>
  <LockRemoteStatusRecord>
    <ProductFamily>2</ProductFamily>
    <ProductCode>2</ProductCode>
    <MajorVersion>2</MajorVersion>
    <MinorVersion>0</MinorVersion>
    <BuildVersion>824</BuildVersion>
    <SerialNumber>001000107</SerialNumber>
    <IfDuressOpenInProgress>>false</IfDuressOpenInProgress>
    <IfDelayedOpenInProgress>>false</IfDelayedOpenInProgress>
    <IfBoltRetracted>>false</IfBoltRetracted>
    <IfShelvedOpenInProgress>>false</IfShelvedOpenInProgress>
    <IfLockOutInProgress>>false</IfLockOutInProgress>
    <IfBoltExtendedDoorOpen>>false</IfBoltExtendedDoorOpen>
    <IfRemoteDisable>>false</IfRemoteDisable>
    <LockFLMModeActivationStatus>ActivateSingleUser</LockFLMModeActivationStatus>
    <IfLockFLMModeActive>true</IfLockFLMModeActive>
    <LockRouteModeActivationStatus>ActivateSingleUser</LockRouteModeActivationStatus>
```



```

<IfLockRouteModeActive>true</IfLockRouteModeActive>
<LockBankModeActivationStatus>ActivateSingleUser</LockBankModeActivationStatus>
<IfLockBankModeActive>true</IfLockBankModeActive>
<LockOpeningOdometer>104</LockOpeningOdometer>
<IfAuditStatusWrapped>>false</IfAuditStatusWrapped>
<AuditEventCount>409</AuditEventCount>
<ListLockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Reading Housekeeping Record</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Key-type mismatch Error</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Last Audit record not an 'Open'
Audit</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
</ListLockRemoteStatusErrorHistoryRecord>
<AuditEventOdometer>0</AuditEventOdometer>
<IfDoorSensorConnectedOnOpen>invalid</IfDoorSensorConnectedOnOpen>
<IfBoltWorksSensorConnectedOnOpen>invalid</IfBoltWorksSensorConnectedOnOpen>
<IfRemoteAdministrationEnabled>invalid</IfRemoteAdministrationEnabled>
</LockRemoteStatusRecord>
<LockRemoteHardwareStatusRecord>
  <LockKeyReaderStatus>NoKeyPresent</LockKeyReaderStatus>
  <LockKeyBoardStatus>KeyBoardPresent_NoKeysHeld</LockKeyBoardStatus>
  <LastKeyPressed>0</LastKeyPressed>
  <LockDisplayStatus>DisplaySuccessfullyCleared</LockDisplayStatus>
  <LockCamPositionSensorStatus>CamSwitchIsOpen</LockCamPositionSensorStatus>
  <SuperCapVoltage>5.8</SuperCapVoltage>
  <ClockBatteryVoltage>3.076</ClockBatteryVoltage>
  <LockDoorSensorStatus>DoorSensorNotConnected</LockDoorSensorStatus>
  <LockDisableInputStatus>LockEnabled</LockDisableInputStatus>
  <LockPowerSupplyStatus>PowerSupplyGood</LockPowerSupplyStatus>
  <LockSolenoidKickerCapStatus>KickerCapIsDischarged</LockSolenoidKickerCapStatus>
  <LockChangeKeyStatus>ChangeKeyIsNotPresent</LockChangeKeyStatus>
  <LockGPIO1Status>LineHigh</LockGPIO1Status>
  <LockGPIO2Status>LineHigh</LockGPIO2Status>
  <LockOnboardMemoryStatus>MemoryResponding</LockOnboardMemoryStatus>
  <LockOnboardClockStatus>ClockRespondingRunning</LockOnboardClockStatus>

<LockOnboardClockInterruptLineStatus>NoClockInterrupt</LockOnboardClockInterruptLineStatus>
  <LockOnboardClockDateTime>2012-08-28T13:56:50Z</LockOnboardClockDateTime>
  <LockOnboardClockDateTimeRead>2012-08-
28T13:56:34.4518948Z</LockOnboardClockDateTimeRead>
  <Temperature>23</Temperature>
  <VCCSystemVoltage>3.3</VCCSystemVoltage>
  <MemoryFormatVersion>0</MemoryFormatVersion>
  <LockControlCardStatus>invalid</LockControlCardStatus>
  <LockBreakOutBoxStatus>invalid</LockBreakOutBoxStatus>
  <LockBoltRetractedSwitchStatus>invalid</LockBoltRetractedSwitchStatus>
  <LockBoltExtendedSwitchStatus>invalid</LockBoltExtendedSwitchStatus>
  <LockBoltWorksExtendedSensorStatus>invalid</LockBoltWorksExtendedSensorStatus>
  <LockAlternateChangeKeyStatus>invalid</LockAlternateChangeKeyStatus>
  <LockAuxiliarySerialIO_Num0_Status>invalid</LockAuxiliarySerialIO_Num0_Status>
</LockRemoteHardwareStatusRecord>
<LockRemoteModeStatusAndDatabaseRecord>
  <LockRemoteModeStatusRecord>
    <LockModeStatus>Closed</LockModeStatus>

```

```

<LockModeOpeningOdometer>6</LockModeOpeningOdometer>
<LockCurrentUserCount>0</LockCurrentUserCount>
<LockMaximumUserCount>0</LockMaximumUserCount>
<TimeDelayBeforeOpenMinutes>0</TimeDelayBeforeOpenMinutes>
<TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
<UnmodifiedOpeningCloseSeal>0686</UnmodifiedOpeningCloseSeal>
<OpeningFirstUserID/>
<OpeningFirstUserKeyInformation>
  <CanType>04</CanType>
  <KeyID>00000046107A</KeyID>
</OpeningFirstUserKeyInformation>
<OpeningFirstUserTimestamp>2012-05-23T17:50:14Z</OpeningFirstUserTimestamp>
<OpeningSecondUserID/>
<OpeningSecondUserKeyInformation/>
<OpeningSecondUserTimestamp/>
<IfDuressComboUsedOnOpen>>false</IfDuressComboUsedOnOpen>
<IfClockBatteryLowOrResetOnOpen>>false</IfClockBatteryLowOrResetOnOpen>
<ClosingUserID/>
<ClosingUserKeyInformation>
  <CanType>04</CanType>
  <KeyID>00000046107A</KeyID>
</ClosingUserKeyInformation>
<ClosingUserTimestamp>2012-05-23T17:51:17Z</ClosingUserTimestamp>
<ModifiedClosingCloseSeal>0686</ModifiedClosingCloseSeal>
<LockModeClosingOdometer>6</LockModeClosingOdometer>
</LockRemoteModeStatusRecord>
<LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-01-23T15:53:55.31Z</StartDate>
  <LastUsedDate>2012-05-23T17:51:24.93Z</LastUsedDate>
  <CustomerNumber>928503</CustomerNumber>
  <LockMode>F</LockMode>
  <IfDualMode>>false</IfDualMode>
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  <AuditCount>6</AuditCount>
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  <IfForcedClosed>>false</IfForcedClosed>
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  <IfRoute2Issued>>false</IfRoute2Issued>
  <IfRoute3Issued>>false</IfRoute3Issued>
  <IfNoAlarm>>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
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  <PreviousSeal>37898</PreviousSeal>
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  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>37898</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>862072</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
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  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName>AA001</GroupName>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1>123-4567-8910</Description1>
  <Description2>2013-10-17</Description2>
  <Description3>#34</Description3>
  <Description4>Joe Bob Jr.</Description4>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1>Cylinder</UserDefined1>
  <UserDefined2>Joe Bob Sr.</UserDefined2>
  <UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
  <UserDefined4>Jane Bob</UserDefined4>
  <Region>KENTUCKY</Region>
  <IfLastRoute1Issued>>false</IfLastRoute1Issued>
  <IfLastRoute2Issued>>false</IfLastRoute2Issued>
  <IfLastRoute3Issued>>false</IfLastRoute3Issued>
  <User1ID1>F3</User1ID1>
  <User1ID2/>
  <User1ID3/>
  <User2ID1/>
  <User2ID2/>
  <User2ID3/>
  <RouteName1/>
  <RouteName2/>
  <RouteName3/>
  <DispatcherID1>CentranSS</DispatcherID1>
  <DispatcherID2/>
  <DispatcherID3/>

```

```

<OpenTime1>2012-05-23T17:49:50.83Z</OpenTime1>
<OpenTime2/>
<OpenTime3/>
<CloseTime1>2012-05-23T17:51:24.93Z</CloseTime1>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>F3</PreviousUser1ID1>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1>2012-05-23T17:44:40.247Z</PreviousOpenTime1>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2012-05-23T17:48:55.653Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>My new service branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>1390</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
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<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</LockRemoteModeStatusAndDatabaseRecord>
<LockRemoteModeStatusAndDatabaseRecord>
  <LockRemoteModeStatusRecord>
    <LockModeStatus>Closed</LockModeStatus>
    <LockModeOpeningOdometer>3</LockModeOpeningOdometer>
    <LockCurrentUserCount>0</LockCurrentUserCount>
    <LockMaximumUserCount>0</LockMaximumUserCount>
    <TimeDelayBeforeOpenMinutes>0</TimeDelayBeforeOpenMinutes>
    <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
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    <OpeningFirstUserID/>
    <OpeningFirstUserKeyInformation>
      <CanType>04</CanType>
      <KeyID>0000006D3288</KeyID>
    </OpeningFirstUserKeyInformation>
    <OpeningFirstUserTimestamp>2012-01-23T16:04:54Z</OpeningFirstUserTimestamp>
    <OpeningSecondUserID/>
    <OpeningSecondUserKeyInformation/>
    <OpeningSecondUserTimestamp/>
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    <IfClockBatteryLowOrResetOnOpen>>false</IfClockBatteryLowOrResetOnOpen>
    <ClosingUserID/>
    <ClosingUserKeyInformation/>
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  </LockRemoteModeStatusRecord>
</LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-01-23T15:54:02.407Z</StartDate>
  <LastUsedDate>2012-01-23T16:06:28.397Z</LastUsedDate>
  <CustomerNumber>502460</CustomerNumber>
  <LockMode>R</LockMode>
  <IfDualMode>>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
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  <IfForcedClosed>>false</IfForcedClosed>
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  <IfRoute2Issued>>false</IfRoute2Issued>
  <IfRoute3Issued>>false</IfRoute3Issued>
  <IfNoAlarm>>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>

```

```

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<PreviousSeal>12603</PreviousSeal>
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<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
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<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
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<Description3>#34</Description3>
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<CustomerID>North Bank</CustomerID>
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<UserDefined2>Joe Bob Sr.</UserDefined2>
<UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
<UserDefined4>Jane Bob</UserDefined4>
<Region>KENTUCKY</Region>
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<DispatcherID3/>
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<OpenTime2/>
<OpenTime3/>
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<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
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<PreviousUser1ID2/>
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<PreviousOpenTime3/>
<PreviousCloseTime1>2012-01-23T16:03:10.77Z</PreviousCloseTime1>
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<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>38202</KeyCloseSeal>
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<BankOpenWindow>0</BankOpenWindow>
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<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
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<LowBatteryDate/>
<DuressDate/>
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<NetworkPort>35005</NetworkPort>
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```

```

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        <DisplayIssuedComboUser1Seq3/>
        <DisplayIssuedComboUser2Seq1/>
        <DisplayIssuedComboUser2Seq2/>
        <DisplayIssuedComboUser2Seq3/>
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</LockRemoteModeStatusAndDatabaseRecord>
<LockRemoteModeStatusAndDatabaseRecord>
    <LockRemoteModeStatusRecord>
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        <LockModeOpeningOdometer>1</LockModeOpeningOdometer>
        <LockCurrentUserCount>9</LockCurrentUserCount>
        <LockMaximumUserCount>100</LockMaximumUserCount>
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            <KeyID>0000000DE164</KeyID>
        </OpeningFirstUserKeyInformation>
        <OpeningFirstUserTimestamp>2011-10-24T18:05:39Z</OpeningFirstUserTimestamp>
        <OpeningSecondUserID/>
        <OpeningSecondUserKeyInformation/>
        <OpeningSecondUserTimestamp/>
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        <IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
        <ClosingUserID>0000</ClosingUserID>
        <ClosingUserKeyInformation/>
        <ClosingUserTimestamp>2011-10-24T18:07:52Z</ClosingUserTimestamp>
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    <IfForcedClosed>false</IfForcedClosed>
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    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
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    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
    <Seal>0</Seal>
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    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
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    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName>AA001</GroupName>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1>123-4567-8910</Description1>
    <Description2>2013-10-17</Description2>
    <Description3>#34</Description3>
    <Description4>Joe Bob Jr.</Description4>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <UserDefined1>Cylinder</UserDefined1>
    <UserDefined2>Joe Bob Sr.</UserDefined2>
    <UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
    <UserDefined4>Jane Bob</UserDefined4>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>false</IfLastRoute3Issued>
    <User1ID1/>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>

```

```

<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1/>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1/>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
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<IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
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<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</LockRemoteModeStatusAndDatabaseRecord>
</RESPONSE_LOCK_REMOTE_STATUS>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran query lock status across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

Example

This example queries lock status through a remote CenTran lock agent persistent network connection:
LockSerialNumber:1037890

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/status
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/status
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "iPAddressField" : null
}
```

Example Output Transaction - JSON:

```
{
  "lockRemoteHardwareStatusRecordField" :
  {
    "clockBatteryVoltageField" : 3.254 ,
    "lastKeyPressedField" : 0 ,
    "lockAlternateChangeKeyStatusField" : 0 ,
    "lockAuxiliarySerialIO_Num0_StatusField" : 0 ,
    "lockBoltExtendedSwitchStatusField" : 3 ,
    "lockBoltRetractedSwitchStatusField" : 0 ,
    "lockBoltWorksExtendedSensorStatusField" : 0 ,
    "lockBreakOutBoxStatusField" : 0 ,
    "lockCamPositionSensorStatusField" : 2 ,
    "lockChangeKeyStatusField" : 0 ,
    "lockControlCardStatusField" : 0 ,
    "lockDisableInputStatusField" : 0 ,
    "lockDisplayStatusField" : 2 ,
    "lockDoorSensorStatusField" : 0 ,
    "lockGPIO1StatusField" : 0 ,
    "lockGPIO2StatusField" : 0 ,
    "lockKeyBoardStatusField" : 4 ,
    "lockKeyReaderStatusField" : 0 ,
    "lockOnboardClockDateTimeField" : "\Date(1410383085000)\\" ,
    "lockOnboardClockDateTimeReadField" : "\Date(1410382323390)\\" ,
    "lockOnboardClockInterruptLineStatusField" : 0 ,
    "lockOnboardClockStatusField" : 0 ,
    "lockOnboardMemoryStatusField" : 0 ,
    "lockPowerSupplyStatusField" : 2 ,
    "lockSolenoidKickerCapStatusField" : 2 ,
    "memoryFormatVersionField" : "0" ,
    "superCapVoltageField" : 10.248 ,
    "temperatureField" : 19 ,
    "vCCSystemVoltageField" : 3.3
  } ,
  "lockRemoteModeStatusAndDatabaseRecordField" :
  [
    {
      "lockLogRecordField" : null ,
      "lockRecordField" :
      {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "8" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" : null ,
        "bankOpenDelayField" : "0" ,

```

```

"bankOpenWindowField" : "0" ,
"cityField" : "" ,
"closeSealLengthField" : "4" ,
"closeTime1Field" : "\/Date(1409161010390)\/" ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "839474" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "CentranSS" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "828097" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "301" ,
"lastUsedDateField" : "\/Date(1409161010390)\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1408990355833)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\/Date(1408979682850)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "815640" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\/Date(1408979359863)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "25856" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "25856" ,
"previousUser1ID1Field" : "FLM SHA Key 6" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,

```



```

        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "9775" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "9775" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\\Date(1393346881577)\\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "FLM SHA Key 4" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "lockRemoteModeStatusRecordField" :
    {
        "closingUserIDField" : null ,
        "closingUserKeyInformationField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                113 ,
                172
            ]
        } ,
        "closingUserTimestampField" : "\\Date(1409161561000)\\/" ,
        "ifClockBatteryLowOrResetOnOpenField" : false ,
        "ifDuressComboUsedOnOpenField" : false ,
        "lockCurrentUserCountField" : "0" ,
        "lockMaximumUserCountField" : "0" ,
        "lockModeClosingOdometerField" : "8" ,
        "lockModeOpeningOdometerField" : "8" ,
        "lockModeStatusField" : 1 ,
        "modifiedClosingCloseSealField" : "3607" ,
        "openingFirstUserIDField" : null ,
        "openingFirstUserKeyInformationField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                113 ,
                172
            ]
        } ,
        "openingFirstUserTimestampField" : "\\Date(1409161520000)\\/" ,
        "openingSecondUserIDField" : null ,
        "openingSecondUserKeyInformationField" : null ,
        "openingSecondUserTimestampField" : null ,
        "timeDelayBeforeOpenMinutesField" : "0" ,
        "timeDelayWindowDurationMinutesField" : "0" ,
        "unmodifiedOpeningCloseSealField" : "3607"
    }
} ,
{
    "lockLogRecordField" : null ,
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "10" ,
        "bankBranchNameField" : "" ,
        "bankModeUserNameArrayField" : null ,
        "bankOpenDelayField" : "0" ,

```

```

"bankOpenWindowField" : "0" ,
"cityField" : "" ,
"closeSealLengthField" : "4" ,
"closeTime1Field" : "\/Date(1404829973047)\/" ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "217355" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "MHG\\LSTALL" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : true ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "735185" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "28944" ,
"lastUsedDateField" : "\/Date(1404829973047)\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1404829819817)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\/Date(1402423454137)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "188768" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\/Date(1402423372783)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "13064" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "13064" ,
"previousUser1ID1Field" : "Route SHA Key 2" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,

```

```

        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "9821" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "9821" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\/Date(1393346892117)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "Route SHA Key 2" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "lockRemoteModeStatusRecordField" :
    {
        "closingUserIDField" : null ,
        "closingUserKeyInformationField" : null ,
        "closingUserTimestampField" : "\/Date(1404829973000)\/" ,
        "ifClockBatteryLowOrResetOnOpenField" : false ,
        "ifDuressComboUsedOnOpenField" : false ,
        "lockCurrentUserCountField" : "0" ,
        "lockMaximumUserCountField" : "0" ,
        "lockModeClosingOdometerField" : "10" ,
        "lockModeOpeningOdometerField" : "10" ,
        "lockModeStatusField" : 1 ,
        "modifiedClosingCloseSealField" : "3675" ,
        "openingFirstUserIDField" : null ,
        "openingFirstUserKeyInformationField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                183 ,
                80
            ]
        } ,
        "openingFirstUserTimestampField" : "\/Date(1404830173000)\/" ,
        "openingSecondUserIDField" : null ,
        "openingSecondUserKeyInformationField" : null ,
        "openingSecondUserTimestampField" : null ,
        "timeDelayBeforeOpenMinutesField" : "0" ,
        "timeDelayWindowDurationMinutesField" : "0" ,
        "unmodifiedOpeningCloseSealField" : "3675"
    }
} ,
{
    "lockLogRecordField" : null ,
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "1" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankModeUserNameArrayField" :
        [
            "BU01" ,
            "BU03" ,
            "BU04" ,
            "BU05" ,
            "BU06" ,
            "Bank SHA Key 10001" ,
            "Bank SHA Key 10002" ,
            "Bank SHA Key 10003" ,
            "Bank SHA Key 10004" ,
            "Bank SHA 10005" ,
            "BU000001" ,
            "BU000002" ,
            "BU000003" ,
            "BU000004" ,

```

```
"BU000005" ,
"BU000006" ,
"BU000007" ,
"BU000008" ,
"BU000009" ,
"BU000010" ,
"BU000011" ,
"BU000012" ,
"BU000013" ,
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"BU000016" ,
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"BU000075" ,
"BU000076" ,
"BU000077" ,
"BU000078" ,
"BU000079" ,
"BU000080" ,
"BU000081" ,
"BU000082" ,
"BU000083" ,
"BU000084" ,
"BU000085" ,
"BU000086"
] ,
"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "" ,
"closeSealLengthField" : "0" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
```

```

"countryField" : "" ,
"customerIDField" : "National City Bank" ,
"customerNumberField" : "775608" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "0" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\\Date(1402424050017)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : null ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : null ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "0" ,
"previousUser1ID1Field" : "" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "0" ,
"routeSeal2Field" : "0" ,

```

```

        "routeSeal3Field" : "0" ,
        "sealField" : "0" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\\Date(1393346968533)\\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "lockRemoteModeStatusRecordField" :
    {
        "closingUserIDField" : "0000" ,
        "closingUserKeyInformationField" : null ,
        "closingUserTimestampField" : "\\Date(1402423558000)\\/" ,
        "ifClockBatteryLowOrResetOnOpenField" : false ,
        "ifDuressComboUsedOnOpenField" : false ,
        "lockCurrentUserCountField" : "96" ,
        "lockMaximumUserCountField" : "100" ,
        "lockModeClosingOdometerField" : "5" ,
        "lockModeOpeningOdometerField" : "5" ,
        "lockModeStatusField" : 1 ,
        "modifiedClosingCloseSealField" : "0000" ,
        "openingFirstUserIDField" : "10004" ,
        "openingFirstUserKeyInformationField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                168 ,
                255
            ]
        } ,
        "openingFirstUserTimestampField" : "\\Date(1402423524000)\\/" ,
        "openingSecondUserIDField" : null ,
        "openingSecondUserKeyInformationField" : null ,
        "openingSecondUserTimestampField" : null ,
        "timeDelayBeforeOpenMinutesField" : "0" ,
        "timeDelayWindowDurationMinutesField" : "0" ,
        "unmodifiedOpeningCloseSealField" : "0000"
    }
} ,
"lockRemoteStatusRecordField" :
{
    "auditEventCountField" : "355" ,
    "auditEventOdometerField" : "355" ,
    "buildVersionField" : "1078" ,
    "ifAuditStatusWrappedField" : false ,
    "ifBoltExtendedDoorOpenField" : false ,
    "ifBoltRetractedField" : false ,
    "ifBoltWorksSensorConnectedOnOpenField" : 1 ,
    "ifDelayedOpenInProgressField" : false ,
    "ifDoorSensorConnectedOnOpenField" : 1 ,
    "ifDuressOpenInProgressField" : false ,
    "ifLockBankModeActiveField" : true ,
    "ifLockFLIModeActiveField" : true ,
    "ifLockOutInProgressField" : false ,
    "ifLockRouteModeActiveField" : true ,
    "ifRemoteAdministrationEnabledField" : 0 ,
    "ifRemoteDisableField" : false ,
    "ifShelvedOpenInProgressField" : false ,
    "listLockRemoteStatusErrorHistoryRecordField" :
    [
        {
            "lockErrorDateTimeField" : "\\Date(1398174347000)\\/" ,
            "lockErrorDateTimeFieldSpecified" : false ,
            "lockErrorModeField" : "Lock" ,
            "lockErrorTransactionField" : "Bank User not found in Lock List"
        }
    ] ,
        "lockErrorDateTimeField" : "\\Date(1398174338000)\\/" ,
        "lockErrorDateTimeFieldSpecified" : false ,

```

```

        "lockErrorModeField" : "Lock" ,
        "lockErrorTransactionField" : "Bank User not found in Lock List"
    } ,
    {
        "lockErrorDateTimeField" : "\Date(1393356631000)\\" ,
        "lockErrorDateTimeFieldSpecified" : false ,
        "lockErrorModeField" : "Lock" ,
        "lockErrorTransactionField" : "Key-type mismatch Error"
    } ,
    {
        "lockErrorDateTimeField" : "\Date(1393356620000)\\" ,
        "lockErrorDateTimeFieldSpecified" : false ,
        "lockErrorModeField" : "Lock" ,
        "lockErrorTransactionField" : "Key-type mismatch Error"
    }
] ,
"lockBankModeActivationStatusField" : 1 ,
"lockFLIModeActivationStatusField" : 1 ,
"lockOpeningOdometerField" : "118" ,
"lockRouteModeActivationStatusField" : 1 ,
"majorVersionField" : "2" ,
"minorVersionField" : "2" ,
"productCodeField" : "8" ,
"productFamilyField" : "2" ,
"serialNumberField" : "001037890"
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Lock status queried from lock successfully."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_LOCK_REMOTE_STATUSField" :
{
    "communicationsIDField" : "LockSerialNumber:1037890" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "iAddressField" : null
}
}

```

3.10.2 Web Service Remote Lock Management - Query Lock Audits Across Network

CenTran Programming Reference Manual

This transaction is used to query the audits, hardware and operational status of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- Lock IP Address and Port - Specifies the lock to connect to from CenTran to read the lock audits from.
- Lock Communications ID - Specifies an alternate identification of a lock to connect to from CenTran to read the lock audits. This is to support alternate methods of handling remote communications with locks for various network topologies.
- Lock Communications Method - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock operational status record
- Lock hardware status record
- Up to three records with lock mode status record and matching lock record data from the Cencon database, for each mode of the lock you have security access to in your Cencon database.
- All audit records read from the lock

See [Appendix E - Lock Audit Data](#) for details of the lock audit information returned by CenTran.

Failure:

- Result record indicating failure

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/audits
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/audits
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_DOWNLOAD_AUDITS>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_DOWNLOAD_AUDITS>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_DOWNLOAD_AUDITS>
  <TRANSACTION_LOCK_REMOTE_DOWNLOAD_AUDITS>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_DOWNLOAD_AUDITS>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock audits queried from lock successfully.</Description>
  </ResultRecord>
  <LockRemoteStatusRecord>
    <ProductFamily>2</ProductFamily>
    <ProductCode>2</ProductCode>
    <MajorVersion>2</MajorVersion>
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  <LockFullSealCount>0</LockFullSealCount>
  <IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
  <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime>2011-12-14T21:16:39Z</LockOpenTime>
  <LockCloseTime>2011-12-14T21:16:40Z</LockCloseTime>
  <IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
  <LockAuditIndex>0</LockAuditIndex>
  <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
  <ClientIPAddress/>
  <LockIPAddress>10.108.6.121:35005</LockIPAddress>
</LockEventAuditRecord>
<LockEventAuditRecord>
  <EventType>ENV_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
  <EventDate>2011-12-14T21:16:02Z</EventDate>
  <PreviousDate/>
  <LogonUser1ID/>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName/>
  <LockMode/>
  <RouteName/>
  <CustomerID/>
  <ATMSerialNumber/>
  <Region/>
  <SerialNumber>001000107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName/>
  <Description>001000107 Lock Event: Clock Write</Description>
  <auditPK>5c12a8bd-8797-4b35-aad4-94392abff03e</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>158</LockTransactionCategory>
  <LockTransactionType>0</LockTransactionType>
  <LockTransactionEvent>0</LockTransactionEvent>
  <LockCloseSeal/>
  <LockFullSealCount>0</LockFullSealCount>
  <IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
  <IsLockDuressComboUsed>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime>2011-12-14T21:16:03Z</LockOpenTime>
  <LockCloseTime>2011-12-14T21:16:02Z</LockCloseTime>
  <IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
  <LockAuditIndex>0</LockAuditIndex>
  <DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
  <ClientIPAddress/>
  <LockIPAddress>10.108.6.121:35005</LockIPAddress>
</LockEventAuditRecord>
<LockEventAuditRecord>
  <EventType>ENV_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
  <EventDate>2011-11-11T23:33:56Z</EventDate>
  <PreviousDate/>

```

```

<LogonUserID/>
<LogonUser2ID/>
<LogonUser3ID/>
<User1ID/>
<User2ID/>
<LockName>Gen2Lock 1000107</LockName>
<LockMode>B</LockMode>
<RouteName/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<Region>KENTUCKY</Region>
<SerialNumber>001000107</SerialNumber>
<BankBranchName>North Bank Branch</BankBranchName>
<BankUserID>0</BankUserID>
<BankBranchID>1234</BankBranchID>
<GroupName>AA001</GroupName>
<Description>Gen2Lock 1000107 Lock Event: Bank Mode Time Zone DST Table
Write</Description>
<auditPK>973d2732-a6df-4818-a361-b3ae5e48b7bb</auditPK>
<User1Key/>
<User2Key/>
<LogonKey/>
<LockTransactionCategory>161</LockTransactionCategory>
<LockTransactionType>0</LockTransactionType>
<LockTransactionEvent>3</LockTransactionEvent>
<LockCloseSeal/>
<LockFullSealCount>0</LockFullSealCount>
<IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
<IsLockDuressComboUsed>false</IsLockDuressComboUsed>
<IsLockCloseSealValid>false</IsLockCloseSealValid>
<LockAbbreviatedDeviceID/>
<LockOpenTime>2011-11-11T23:33:56Z</LockOpenTime>
<LockCloseTime/>
<IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
<LockAuditIndex>0</LockAuditIndex>
<DatabaseLockAuditIndex>0</DatabaseLockAuditIndex>
<ClientIPAddress/>
<LockIPAddress>10.108.6.121:35005</LockIPAddress>
</LockEventAuditRecord>
</RESPONSE_LOCK_REMOTE_DOWNLOAD_AUDITS>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran query lock audits across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example queries lock audits through a remote CenTran lock agent persistent network connection:

LockSerialNumber:1037890

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/audits
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/audits
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "ipAddressField" : null
}
```

Example Output Transaction - JSON:

```
{
  "lockEventAuditRecordField" :
  [
    {
      "aTMSerialNumberField" : "" ,
      "auditPKField" : "4892c143-a3b5-42da-95cd-3b38c219b12a" ,
      "bankBranchIDField" : "0" ,
      "bankBranchNameField" : "" ,
      "bankUserIDField" : "0" ,
      "clientIPAddressField" : "" ,
      "customerIDField" : "North Bank" ,
      "databaseLockAuditIndexField" : "0" ,
      "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Route Mode Access Configuration
(Single\Dual) Write" ,
      "eventDateField" : "\/Date(1410382826000)\/" ,
      "eventResultField" : "0" ,
      "eventTypeField" : "ENV_LOCK_EVENT" ,
      "groupNameField" : "" ,
      "isLockClockBatteryIsLowField" : false ,
      "isLockCloseSealValidField" : false ,
      "isLockDuressComboUsedField" : false ,
      "isPossibleLockErrorOrIntrusionField" : false ,
      "lockAbbreviatedDeviceIDField" : null ,
      "lockAuditIndexField" : "355" ,
      "lockCloseSealField" : null ,
      "lockCloseTimeField" : null ,
      "lockFullSealCountField" : "0" ,
      "lockIPAddressField" : ":0" ,
      "lockModeField" : 2 ,
      "lockNameField" : "Gen2 Swingbolt 1037890" ,
      "lockOpenTimeField" : "\/Date(1410382826000)\/" ,
      "lockTransactionCategoryField" : "160" ,
      "lockTransactionEventField" : "5" ,
      "lockTransactionTypeField" : "0" ,
      "logonKeyField" : null ,
      "logonUser1IDField" : "" ,
      "logonUser2IDField" : "" ,
      "logonUser3IDField" : "" ,
      "previousDateField" : null ,
      "regionField" : "KENTUCKY" ,
      "routeNameField" : "" ,
      "serialNumberField" : "001037890" ,
      "user1IDField" : "" ,
      "user1KeyField" : null ,
      "user2IDField" : "" ,
      "user2KeyField" : null
    } ,
    {
      "aTMSerialNumberField" : "" ,
      "auditPKField" : "578493a6-35b0-423a-926d-95a81ae0aaed" ,
      "bankBranchIDField" : "0" ,
      "bankBranchNameField" : "" ,
      "bankUserIDField" : "0" ,
      "clientIPAddressField" : "" ,
      "customerIDField" : "North Bank" ,

```

```

        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Route Mode Access Configuration
(Single\Dual) Write" ,
        "eventDateField" : "\/Date(1410382820000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "354" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "0" ,
        "lockIPAddressField" : ":0" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\/Date(1410382820000)\/" ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "5" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001037890" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditPKField" : "2a352b75-7391-4fb6-alca-e4ee7877a5ca" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Open\Close Lock ( User: FLM SHA
Key 4 )" ,
        "eventDateField" : "\/Date(1409161520000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "353" ,
        "lockCloseSealField" : "3607" ,
        "lockCloseTimeField" : "\/Date(1409161561000)\/" ,
        "lockFullSealCountField" : "8" ,
        "lockIPAddressField" : ":0" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\/Date(1409161520000)\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "3" ,
        "lockTransactionTypeField" : "16" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001037890" ,
        "user1IDField" : "FLM SHA Key 4" ,
        "user1KeyField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                113 ,
                172
            ]
        }
    }

```

```

    } ,
    "user2IDField" : "" ,
    "user2KeyField" : null
  } ,
  {
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "9b3c1a87-a5cd-4ed6-95e8-fb365a482244" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Open\\Close Lock ( User: FLM SHA
Key 6 )" ,
    "eventDateField" : "\\Date(1408980194000)\\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : true ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "352" ,
    "lockCloseSealField" : "7528" ,
    "lockCloseTimeField" : "\\Date(1408980210000)\\/" ,
    "lockFullSealCountField" : "7" ,
    "lockIPAddressField" : ":0" ,
    "lockModeField" : 1 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "lockOpenTimeField" : "\\Date(1408980194000)\\/" ,
    "lockTransactionCategoryField" : "0" ,
    "lockTransactionEventField" : "3" ,
    "lockTransactionTypeField" : "16" ,
    "logonKeyField" : null ,
    "logonUser1IDField" : "" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001037890" ,
    "user1IDField" : "FLM SHA Key 6" ,
    "user1KeyField" :
    {
      "canTypeField" :
      [
        24
      ] ,
      "keyIDField" :
      [
        0 ,
        0 ,
        0 ,
        106 ,
        184 ,
        218
      ]
    } ,
    "user2IDField" : "" ,
    "user2KeyField" : null
  } ,
  {
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "74852cc3-1a17-48bd-9d1f-6f564cd62b05" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Open\\Close Lock ( User: FLM SHA
Key 6 )" ,
    "eventDateField" : "\\Date(1408979842000)\\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : true ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "351" ,
    "lockCloseSealField" : "6890" ,
    "lockCloseTimeField" : "\\Date(1408979868000)\\/" ,
    "lockFullSealCountField" : "6" ,
    "lockIPAddressField" : ":0" ,
    "lockModeField" : 1 ,

```

```

"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lockOpenTimeField" : "\Date(1408979842000)\/" ,
"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "3" ,
"lockTransactionTypeField" : "16" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001037890" ,
"user1IDField" : "FLM SHA Key 6" ,
"user1KeyField" :
{
    "canTypeField" :
    [
        24
    ] ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        184 ,
        218
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "5ff5a499-8a16-471d-b4d7-3706945be93d" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,
    "eventDateField" : "\Date(1404829973000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : true ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "350" ,
    "lockCloseSealField" : "3675" ,
    "lockCloseTimeField" : "\Date(1404829973000)\/" ,
    "lockFullSealCountField" : "10" ,
    "lockIPAddressField" : ":0" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "lockOpenTimeField" : null ,
    "lockTransactionCategoryField" : "160" ,
    "lockTransactionEventField" : "6" ,
    "lockTransactionTypeField" : "0" ,
    "logonKeyField" : null ,
    "logonUser1IDField" : "" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001037890" ,
    "user1IDField" : "" ,
    "user1KeyField" : null ,
    "user2IDField" : "" ,
    "user2KeyField" : null
} ,
{
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "c05f81ce-86fb-4522-8279-01a36d8a4bc1" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Clock Write" ,
    "eventDateField" : "\Date(1404829855000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,

```

```

"groupNameField" : "" ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "349" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : "\/Date(1404829855000)\/" ,
"lockFullSealCountField" : "0" ,
"lockIPAddressField" : ":0" ,
"lockModeField" : 1 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lockOpenTimeField" : "\/Date(1404830185000)\/" ,
"lockTransactionCategoryField" : "159" ,
"lockTransactionEventField" : "0" ,
"lockTransactionTypeField" : "0" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001037890" ,
"user1IDField" : "" ,
"user1KeyField" : null ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
"atmSerialNumberField" : "" ,
"auditPKField" : "fa4bbfcb-8f2f-479b-be99-b75e986309fd" ,
"bankBranchIDField" : "0" ,
"bankBranchNameField" : "" ,
"bankUserIDField" : "0" ,
"clientIPAddressField" : "" ,
"customerIDField" : "North Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Open Lock ( User: Route SHA Key
2 )" ,
"eventDateField" : "\/Date(1404830173000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "348" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "10" ,
"lockIPAddressField" : ":0" ,
"lockModeField" : 2 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lockOpenTimeField" : "\/Date(1404830173000)\/" ,
"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "1" ,
"lockTransactionTypeField" : "32" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001037890" ,
"user1IDField" : "Route SHA Key 2" ,
"user1KeyField" :
{
"canTypeField" :
[
24
] ,
"keyIDField" :
[
0 ,
0 ,
0 ,
106 ,
183 ,
80
]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{

```



```

    "aTMSerialNumberField" : "" ,
    "auditPKField" : "ecaff26e-f9b5-479a-b326-de58017d8fae" ,
    "bankBranchIDField" : "1234" ,
    "bankBranchNameField" : "North Bank Branch" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "National City Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Bank Mode Users Added" ,
    "eventDateField" : "\/Date(1402424050000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "347" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : null ,
    "lockFullSealCountField" : "0" ,
    "lockIPAddressField" : ":0" ,
    "lockModeField" : 3 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "lockOpenTimeField" : "\/Date(1402424050000)\/" ,
    "lockTransactionCategoryField" : "161" ,
    "lockTransactionEventField" : "1" ,
    "lockTransactionTypeField" : "0" ,
    "logonKeyField" : null ,
    "logonUser1IDField" : "" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
    "serialNumberField" : "001037890" ,
    "user1IDField" : "" ,
    "user1KeyField" : null ,
    "user2IDField" : "" ,
    "user2KeyField" : null
  } ,
  {
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "fe63ca64-2649-4133-9c80-5cf440ec606b" ,
    "bankBranchIDField" : "1234" ,
    "bankBranchNameField" : "North Bank Branch" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "National City Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Confirm Bank Mode Lock Open as
Closed" ,
    "eventDateField" : "\/Date(1402423558000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "346" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : "\/Date(1402423558000)\/" ,
    "lockFullSealCountField" : "5" ,
    "lockIPAddressField" : ":0" ,
    "lockModeField" : 3 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "lockOpenTimeField" : null ,
    "lockTransactionCategoryField" : "161" ,
    "lockTransactionEventField" : "6" ,
    "lockTransactionTypeField" : "0" ,
    "logonKeyField" : null ,
    "logonUser1IDField" : "" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
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    "routeNameField" : "" ,
    "serialNumberField" : "001037890" ,
    "user1IDField" : "" ,
    "user1KeyField" : null ,
    "user2IDField" : "" ,
    "user2KeyField" : null
  } ,
  {
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "48f14226-ddee-46a2-8dc1-be53cd70b9bd" ,
    "bankBranchIDField" : "1234" ,

```

```

"bankBranchNameField" : "North Bank Branch" ,
"bankUserIDField" : "10004" ,
"clientIPAddressField" : "" ,
"customerIDField" : "National City Bank" ,
"databaseLockAuditIndexField" : "0" ,
"descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Open Lock ( User: Bank SHA Key
10004 )" ,

"eventDateField" : "\Date(1402423524000)\/" ,
"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
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"lockAuditIndexField" : "345" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "5" ,
"lockIPAddressField" : ":0" ,
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"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lockOpenTimeField" : "\Date(1402423524000)\/" ,
"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "1" ,
"lockTransactionTypeField" : "48" ,
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"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
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"user1KeyField" :
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        24
    ] ,
    "keyIDField" :
    [
        0 ,
        0 ,
        0 ,
        106 ,
        168 ,
        255
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
    "aTMSerialNumberField" : "" ,
    "auditPKField" : "94b71440-7405-40c0-9b04-1b3236e5658b" ,
    "bankBranchIDField" : "0" ,
    "bankBranchNameField" : "" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "North Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,

    "eventDateField" : "\Date(1402423454000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : true ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "344" ,
    "lockCloseSealField" : "2320" ,
    "lockCloseTimeField" : "\Date(1402423454000)\/" ,
    "lockFullSealCountField" : "9" ,
    "lockIPAddressField" : ":0" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "lockOpenTimeField" : null ,
    "lockTransactionCategoryField" : "160" ,
    "lockTransactionEventField" : "6" ,
    "lockTransactionTypeField" : "0" ,
    "logonKeyField" : null ,
    "logonUser1IDField" : "" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,

```

```

        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001037890" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditPKField" : "646ce2bf-88d2-4687-94d8-ff2f97fa9da6" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Open Lock ( User: Route SHA Key
2 )" ,
        "eventDateField" : "\\Date(1402423386000)\\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "343" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "9" ,
        "lockIPAddressField" : ":0" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\\Date(1402423386000)\\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "32" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001037890" ,
        "user1IDField" : "Route SHA Key 2" ,
        "user1KeyField" :
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            [
                24
            ] ,
            "keyIDField" :
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                0 ,
                0 ,
                0 ,
                106 ,
                183 ,
                80
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditPKField" : "e6339a5a-bd6a-404d-a10d-b762b1f3391a" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Confirm FLM Mode Dispatched Call
Closed" ,
        "eventDateField" : "\\Date(1402423328000)\\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "342" ,
        "lockCloseSealField" : "5638" ,

```

```

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"lockFullSealCountField" : "5",
"lockIPAddressField" : ":0",
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"lockTransactionEventField" : "6",
"lockTransactionTypeField" : "0",
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"logonUser1IDField" : "",
"logonUser2IDField" : "",
"logonUser3IDField" : "",
"previousDateField" : null,
"regionField" : "KENTUCKY",
"routeNameField" : "",
"serialNumberField" : "001037890",
"user1IDField" : "",
"user1KeyField" : null,
"user2IDField" : "",
"user2KeyField" : null
},
{
"atMSerialNumberField" : "",
"auditPKField" : "c39d64c6-5943-424a-99cf-39c77390ecb9",
"bankBranchIDField" : "0",
"bankBranchNameField" : "",
"bankUserIDField" : "0",
"clientIPAddressField" : "",
"customerIDField" : "North Bank",
"databaseLockAuditIndexField" : "0",
"descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Clock Write",
"eventDateField" : "\Date(1402423276000)\",
"eventResultField" : "0",
"eventTypeField" : "ENV_LOCK_EVENT",
"groupNameField" : "",
"isLockClockBatteryIsLowField" : false,
"isLockCloseSealValidField" : false,
"isLockDuressComboUsedField" : false,
"isPossibleLockErrorOrIntrusionField" : false,
"lockAbbreviatedDeviceIDField" : null,
"lockAuditIndexField" : "341",
"lockCloseSealField" : null,
"lockCloseTimeField" : "\Date(1402423276000)\",
"lockFullSealCountField" : "0",
"lockIPAddressField" : ":0",
"lockModeField" : 1,
"lockNameField" : "Gen2 Swingbolt 1037890",
"lockOpenTimeField" : "\Date(1402423539000)\",
"lockTransactionCategoryField" : "159",
"lockTransactionEventField" : "0",
"lockTransactionTypeField" : "0",
"logonKeyField" : null,
"logonUser1IDField" : "",
"logonUser2IDField" : "",
"logonUser3IDField" : "",
"previousDateField" : null,
"regionField" : "KENTUCKY",
"routeNameField" : "",
"serialNumberField" : "001037890",
"user1IDField" : "",
"user1KeyField" : null,
"user2IDField" : "",
"user2KeyField" : null
},
{
"atMSerialNumberField" : "",
"auditPKField" : "d9aedc29-3945-4486-9b14-ba06cbe1c203",
"bankBranchIDField" : "0",
"bankBranchNameField" : "",
"bankUserIDField" : "0",
"clientIPAddressField" : "",
"customerIDField" : "North Bank",
"databaseLockAuditIndexField" : "0",
"descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Open Lock ( User: FLM SHA Key 6
)",
"eventDateField" : "\Date(1402423527000)\",
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"eventTypeField" : "ENV_LOCK_EVENT",
"groupNameField" : "",
"isLockClockBatteryIsLowField" : false,
"isLockCloseSealValidField" : false,
"isLockDuressComboUsedField" : false,
"isPossibleLockErrorOrIntrusionField" : false,
"lockAbbreviatedDeviceIDField" : null,
"lockAuditIndexField" : "340",
"lockCloseSealField" : null,
"lockCloseTimeField" : null,
"lockFullSealCountField" : "5",
"lockIPAddressField" : ":0",

```

```

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        "lockOpenTimeField" : "\Date(1402423527000)\/" ,
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        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "16" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001037890" ,
        "user1IDField" : "FLM SHA Key 6" ,
        "user1KeyField" :
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                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                184 ,
                218
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditPKField" : "36366022-f74a-4af2-960e-6fae1524ea25" ,
        "bankBranchIDField" : "1234" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "National City Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Confirm Bank Mode Lock Open as
Closed" ,
        "eventDateField" : "\Date(1400865000000)\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "339" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : "\Date(1400865000000)\/" ,
        "lockFullSealCountField" : "4" ,
        "lockIPAddressField" : ":0" ,
        "lockModeField" : 3 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "161" ,
        "lockTransactionEventField" : "6" ,
        "lockTransactionTypeField" : "0" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001037890" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditPKField" : "1b7822da-c01b-4254-a05e-4a494f1fe1e4" ,
        "bankBranchIDField" : "1234" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankUserIDField" : "10004" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "National City Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Open Lock ( User: Bank SHA Key
10004 )" ,
        "eventDateField" : "\Date(1400864967000)\/" ,

```

```

"eventResultField" : "0" ,
"eventTypeField" : "ENV_LOCK_EVENT" ,
"groupNameField" : "" ,
"isLockClockBatteryIsLowField" : false ,
"isLockCloseSealValidField" : false ,
"isLockDuressComboUsedField" : false ,
"isPossibleLockErrorOrIntrusionField" : false ,
"lockAbbreviatedDeviceIDField" : null ,
"lockAuditIndexField" : "338" ,
"lockCloseSealField" : null ,
"lockCloseTimeField" : null ,
"lockFullSealCountField" : "4" ,
"lockIPAddressField" : ":0" ,
"lockModeField" : 3 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lockOpenTimeField" : "\/Date(1400864967000)\/" ,
"lockTransactionCategoryField" : "0" ,
"lockTransactionEventField" : "1" ,
"lockTransactionTypeField" : "48" ,
"logonKeyField" : null ,
"logonUser1IDField" : "" ,
"logonUser2IDField" : "" ,
"logonUser3IDField" : "" ,
"previousDateField" : null ,
"regionField" : "KENTUCKY" ,
"routeNameField" : "" ,
"serialNumberField" : "001037890" ,
"user1IDField" : "Bank SHA Key 10004" ,
"user1KeyField" :
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    [
        24
    ] ,
    "keyIDField" :
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        0 ,
        0 ,
        0 ,
        106 ,
        168 ,
        255
    ]
} ,
"user2IDField" : "" ,
"user2KeyField" : null
} ,
{
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    "auditPKField" : "cf0dl199-81fc-41ec-9e58-5c279b7b474d" ,
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    "bankBranchNameField" : "North Bank Branch" ,
    "bankUserIDField" : "0" ,
    "clientIPAddressField" : "" ,
    "customerIDField" : "National City Bank" ,
    "databaseLockAuditIndexField" : "0" ,
    "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Confirm Bank Mode Lock Open as
Closed" ,
    "eventDateField" : "\/Date(1400864913000)\/" ,
    "eventResultField" : "0" ,
    "eventTypeField" : "ENV_LOCK_EVENT" ,
    "groupNameField" : "" ,
    "isLockClockBatteryIsLowField" : false ,
    "isLockCloseSealValidField" : false ,
    "isLockDuressComboUsedField" : false ,
    "isPossibleLockErrorOrIntrusionField" : false ,
    "lockAbbreviatedDeviceIDField" : null ,
    "lockAuditIndexField" : "337" ,
    "lockCloseSealField" : null ,
    "lockCloseTimeField" : "\/Date(1400864913000)\/" ,
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    "lockOpenTimeField" : null ,
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    "lockTransactionEventField" : "6" ,
    "lockTransactionTypeField" : "0" ,
    "logonKeyField" : null ,
    "logonUser1IDField" : "" ,
    "logonUser2IDField" : "" ,
    "logonUser3IDField" : "" ,
    "previousDateField" : null ,
    "regionField" : "KENTUCKY" ,
    "routeNameField" : "" ,
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    "user1IDField" : "" ,
    "user1KeyField" : null ,
    "user2IDField" : "" ,
    "user2KeyField" : null
}

```

```

    },
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        "auditPKField" : "65c4dcde-0efd-4bbc-92e3-8a301ac8c22c",
        "bankBranchIDField" : "1234",
        "bankBranchNameField" : "North Bank Branch",
        "bankUserIDField" : "10004",
        "clientIPAddressField" : "",
        "customerIDField" : "National City Bank",
        "databaseLockAuditIndexField" : "0",
        "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Open Lock ( User: Bank SHA Key
10004 )" ,

        "eventDateField" : "\\Date(1400864855000)\\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : false ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "336" ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : "3" ,
        "lockIPAddressField" : ":0" ,
        "lockModeField" : 3 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : "\\Date(1400864855000)\\/" ,
        "lockTransactionCategoryField" : "0" ,
        "lockTransactionEventField" : "1" ,
        "lockTransactionTypeField" : "48" ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001037890" ,
        "user1IDField" : "Bank SHA Key 10004" ,
        "user1KeyField" :
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            "canTypeField" :
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                24
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            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                168 ,
                255
            ]
        } ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    } ,
    {
        "aTMSerialNumberField" : "" ,
        "auditPKField" : "129479ca-e67e-4efb-947d-4075baleald1" ,
        "bankBranchIDField" : "0" ,
        "bankBranchNameField" : "" ,
        "bankUserIDField" : "0" ,
        "clientIPAddressField" : "" ,
        "customerIDField" : "North Bank" ,
        "databaseLockAuditIndexField" : "0" ,
        "descriptionField" : "Gen2 Swingbolt 1037890 Lock Event: Confirm Route Mode Dispatched
Call Closed" ,

        "eventDateField" : "\\Date(1400864699000)\\/" ,
        "eventResultField" : "0" ,
        "eventTypeField" : "ENV_LOCK_EVENT" ,
        "groupNameField" : "" ,
        "isLockClockBatteryIsLowField" : false ,
        "isLockCloseSealValidField" : true ,
        "isLockDuressComboUsedField" : false ,
        "isPossibleLockErrorOrIntrusionField" : false ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : "335" ,
        "lockCloseSealField" : "9091" ,
        "lockCloseTimeField" : "\\Date(1400864699000)\\/" ,
        "lockFullSealCountField" : "8" ,
        "lockIPAddressField" : ":0" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : "160" ,
        "lockTransactionEventField" : "6" ,

```

```

        "lockTransactionTypeField" : "0" ,
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        "logonUser1IDField" : "" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001037890" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    }
} ,
"lockRemoteHardwareStatusRecordField" :
{
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    "lastKeyPressedField" : 0 ,
    "lockAlternateChangeKeyStatusField" : 0 ,
    "lockAuxiliarySerialIO_Num0_StatusField" : 0 ,
    "lockBoltExtendedSwitchStatusField" : 3 ,
    "lockBoltRetractedSwitchStatusField" : 0 ,
    "lockBoltWorksExtendedSensorStatusField" : 0 ,
    "lockBreakOutBoxStatusField" : 0 ,
    "lockCamPositionSensorStatusField" : 2 ,
    "lockChangeKeyStatusField" : 0 ,
    "lockControlCardStatusField" : 0 ,
    "lockDisableInputStatusField" : 0 ,
    "lockDisplayStatusField" : 2 ,
    "lockDoorSensorStatusField" : 0 ,
    "lockGPIO1StatusField" : 0 ,
    "lockGPIO2StatusField" : 0 ,
    "lockKeyBoardStatusField" : 4 ,
    "lockKeyReaderStatusField" : 0 ,
    "lockOnboardClockDateTimeField" : "\\Date(1410446548000)\\/" ,
    "lockOnboardClockDateTimeReadField" : "\\Date(1410445777691)\\/" ,
    "lockOnboardClockInterruptLineStatusField" : 0 ,
    "lockOnboardClockStatusField" : 0 ,
    "lockOnboardMemoryStatusField" : 0 ,
    "lockPowerSupplyStatusField" : 2 ,
    "lockSolenoidKickerCapStatusField" : 2 ,
    "memoryFormatVersionField" : "0" ,
    "superCapVoltageField" : 10.269 ,
    "temperatureField" : 18.3 ,
    "vCCSystemVoltageField" : 3.3
} ,
"lockRemoteModeStatusAndDatabaseRecordField" :
[
    {
        "lockLogRecordField" : null ,
        "lockRecordField" :
        {
            "aTMSerialNumberField" : "" ,
            "address1Field" : "" ,
            "address2Field" : "" ,
            "auditCountField" : "8" ,
            "bankBranchNameField" : "" ,
            "bankModeUserNameArrayField" : null ,
            "bankOpenDelayField" : "0" ,
            "bankOpenWindowField" : "0" ,
            "cityField" : "" ,
            "closeSealLengthField" : "4" ,
            "closeTime1Field" : "\\Date(1409161010390)\\/" ,
            "closeTime2Field" : null ,
            "closeTime3Field" : null ,
            "countryField" : "" ,
            "customerIDField" : "North Bank" ,
            "customerNumberField" : "839474" ,
            "description1Field" : "" ,
            "description2Field" : "" ,
            "description3Field" : "" ,
            "description4Field" : "" ,
            "dispatcherID1Field" : "CentranSS" ,
            "dispatcherID2Field" : "" ,
            "dispatcherID3Field" : "" ,
            "displayIssuedComboUser1Seq1Field" : "" ,
            "displayIssuedComboUser1Seq2Field" : "" ,
            "displayIssuedComboUser1Seq3Field" : "" ,
            "displayIssuedComboUser2Seq1Field" : "" ,
            "displayIssuedComboUser2Seq2Field" : "" ,
            "displayIssuedComboUser2Seq3Field" : "" ,
            "duressDateField" : null ,
            "groupNameField" : "" ,
            "ifActivationCallField" : false ,
            "ifDualModeField" : false ,
            "ifForcedClosedField" : false ,
            "ifLastRoute1IssuedField" : false ,
            "ifLastRoute2IssuedField" : false ,
            "ifLastRoute3IssuedField" : false ,

```



```

        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : false ,
        "ifRoute2IssuedField" : false ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "828097" ,
        "issuedComboUser1Seq2Field" : "0" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "301" ,
        "lastUsedDateField" : "\\Date(1409161010390)\\/" ,
        "lockActivationStatusField" : "gen2" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 0 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "0.0.0.0" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\\Date(1408990355833)\\/" ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\\Date(1408979682850)\\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "815640" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\\Date(1408979359863)\\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "25856" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "25856" ,
        "previousUser1ID1Field" : "FLM SHA Key 6" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "9775" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "9775" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\\Date(1393346881577)\\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "FLM SHA Key 4" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "lockRemoteModeStatusRecordField" :
    {
        "closingUserIDField" : null ,
        "closingUserKeyInformationField" :

```

```

        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                113 ,
                172
            ]
        } ,
        "closingUserTimestampField" : "\Date(1409161561000)\/" ,
        "ifClockBatteryLowOrResetOnOpenField" : false ,
        "ifDuressComboUsedOnOpenField" : false ,
        "lockCurrentUserCountField" : "0" ,
        "lockMaximumUserCountField" : "0" ,
        "lockModeClosingOdometerField" : "8" ,
        "lockModeOpeningOdometerField" : "8" ,
        "lockModeStatusField" : 1 ,
        "modifiedClosingCloseSealField" : "3607" ,
        "openingFirstUserIDField" : null ,
        "openingFirstUserKeyInformationField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                113 ,
                172
            ]
        } ,
        "openingFirstUserTimestampField" : "\Date(1409161520000)\/" ,
        "openingSecondUserIDField" : null ,
        "openingSecondUserKeyInformationField" : null ,
        "openingSecondUserTimestampField" : null ,
        "timeDelayBeforeOpenMinutesField" : "0" ,
        "timeDelayWindowDurationMinutesField" : "0" ,
        "unmodifiedOpeningCloseSealField" : "3607"
    } ,
    {
        "lockLogRecordField" : null ,
        "lockRecordField" :
        {
            "aTMSerialNumberField" : "" ,
            "address1Field" : "" ,
            "address2Field" : "" ,
            "auditCountField" : "10" ,
            "bankBranchNameField" : "" ,
            "bankModeUserNameArrayField" : null ,
            "bankOpenDelayField" : "0" ,
            "bankOpenWindowField" : "0" ,
            "cityField" : "" ,
            "closeSealLengthField" : "4" ,
            "closeTime1Field" : "\Date(1404829973047)\/" ,
            "closeTime2Field" : null ,
            "closeTime3Field" : null ,
            "countryField" : "" ,
            "customerIDField" : "North Bank" ,
            "customerNumberField" : "217355" ,
            "description1Field" : "" ,
            "description2Field" : "" ,
            "description3Field" : "" ,
            "description4Field" : "" ,
            "dispatcherID1Field" : "MHG\\LSTALL" ,
            "dispatcherID2Field" : "" ,
            "dispatcherID3Field" : "" ,
            "displayIssuedComboUser1Seq1Field" : "" ,
            "displayIssuedComboUser1Seq2Field" : "" ,
            "displayIssuedComboUser1Seq3Field" : "" ,
            "displayIssuedComboUser2Seq1Field" : "" ,
            "displayIssuedComboUser2Seq2Field" : "" ,
            "displayIssuedComboUser2Seq3Field" : "" ,
            "duressDateField" : null ,
            "groupNameField" : "" ,
            "ifActivationCallField" : false ,
            "ifDualModeField" : false ,
            "ifForcedClosedField" : true ,
            "ifLastRoute1IssuedField" : false ,
            "ifLastRoute2IssuedField" : false ,
            "ifLastRoute3IssuedField" : false
        }
    }

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```

        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : false ,
        "ifRoute2IssuedField" : false ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "735185" ,
        "issuedComboUser1Seq2Field" : "0" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "28944" ,
        "lastUsedDateField" : "\\Date(1404829973047)\\/" ,
        "lockActivationStatusField" : "gen2" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "0.0.0.0" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\\Date(1404829819817)\\/" ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\\Date(1402423454137)\\/" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "188768" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\\Date(1402423372783)\\/" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "13064" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "13064" ,
        "previousUser1ID1Field" : "Route SHA Key 2" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "9821" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "9821" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\\Date(1393346892117)\\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "Route SHA Key 2" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "lockRemoteModeStatusRecordField" :
    {
        "closingUserIDField" : null ,
        "closingUserKeyInformationField" : null ,

```

```

        "closingUserTimestampField" : "\Date(1404829973000)\/" ,
        "ifClockBatteryLowOrResetOnOpenField" : false ,
        "ifDuressComboUsedOnOpenField" : false ,
        "lockCurrentUserCountField" : "0" ,
        "lockMaximumUserCountField" : "0" ,
        "lockModeClosingOdometerField" : "10" ,
        "lockModeOpeningOdometerField" : "10" ,
        "lockModeStatusField" : 1 ,
        "modifiedClosingCloseSealField" : "3675" ,
        "openingFirstUserIDField" : null ,
        "openingFirstUserKeyInformationField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                183 ,
                80
            ]
        } ,
        "openingFirstUserTimestampField" : "\Date(1404830173000)\/" ,
        "openingSecondUserIDField" : null ,
        "openingSecondUserKeyInformationField" : null ,
        "openingSecondUserTimestampField" : null ,
        "timeDelayBeforeOpenMinutesField" : "0" ,
        "timeDelayWindowDurationMinutesField" : "0" ,
        "unmodifiedOpeningCloseSealField" : "3675"
    } ,
    {
        "lockLogRecordField" : null ,
        "lockRecordField" :
        {
            "atMSerialNumberField" : "" ,
            "address1Field" : "" ,
            "address2Field" : "" ,
            "auditCountField" : "1" ,
            "bankBranchNameField" : "North Bank Branch" ,
            "bankModeUserNameArrayField" :
            [
                "BU01" ,
                "BU03" ,
                "BU04" ,
                "BU05" ,
                "BU06" ,
                "Bank SHA Key 10001" ,
                "Bank SHA Key 10002" ,
                "Bank SHA Key 10003" ,
                "Bank SHA Key 10004" ,
                "Bank SHA 10005" ,
                "BU000001" ,
                "BU000002" ,
                "BU000003" ,
                "BU000004" ,
                "BU000005" ,
                "BU000006" ,
                "BU000007" ,
                "BU000008" ,
                "BU000009" ,
                "BU000010" ,
                "BU000011" ,
                "BU000012" ,
                "BU000013" ,
                "BU000014" ,
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                "BU000016" ,
                "BU000017" ,
                "BU000018" ,
                "BU000019" ,
                "BU000020" ,
                "BU000021" ,
                "BU000022" ,
                "BU000023" ,
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                "BU000028" ,
                "BU000029" ,
                "BU000030" ,
                "BU000031" ,
                "BU000032" ,
                "BU000033" ,
                "BU000034" ,
            ]
        }
    }
}

```

```

"BU000035" ,
"BU000036" ,
"BU000037" ,
"BU000038" ,
"BU000039" ,
"BU000040" ,
"BU000041" ,
"BU000042" ,
"BU000043" ,
"BU000044" ,
"BU000045" ,
"BU000046" ,
"BU000047" ,
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"BU000078" ,
"BU000079" ,
"BU000080" ,
"BU000081" ,
"BU000082" ,
"BU000083" ,
"BU000084" ,
"BU000085" ,
"BU000086"
] ,
"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "" ,
"closeSealLengthField" : "0" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "National City Bank" ,
"customerNumberField" : "775608" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,

```

```

        "ifRoute1IssuedField" : false ,
        "ifRoute2IssuedField" : false ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "0" ,
        "issuedComboUser1Seq2Field" : "0" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "0" ,
        "lastUsedDateField" : "\\Date(1402424050017)\\/" ,
        "lockActivationStatusField" : "gen2" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "0.0.0.0" ,
        "networkPortField" : "0" ,
        "openTime1Field" : null ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : null ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "0" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : null ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "0" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "0" ,
        "previousUser1ID1Field" : "" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "0" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "0" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\\Date(1393346968533)\\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "lockRemoteModeStatusRecordField" :
    {
        "closingUserIDField" : "0000" ,
        "closingUserKeyInformationField" : null ,
        "closingUserTimestampField" : "\\Date(1402423558000)\\/" ,
        "ifClockBatteryLowOrResetOnOpenField" : false ,
        "ifDuressComboUsedOnOpenField" : false ,
        "lockCurrentUserCountField" : "96" ,
        "lockMaximumUserCountField" : "100" ,
        "lockModeClosingOdometerField" : "5" ,

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```

        "lockModeOpeningOdometerField" : "5" ,
        "lockModeStatusField" : 1 ,
        "modifiedClosingCloseSealField" : "0000" ,
        "openingFirstUserIDField" : "10004" ,
        "openingFirstUserKeyInformationField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                168 ,
                255
            ]
        } ,
        "openingFirstUserTimestampField" : "\Date(1402423524000)\/" ,
        "openingSecondUserIDField" : null ,
        "openingSecondUserKeyInformationField" : null ,
        "openingSecondUserTimestampField" : null ,
        "timeDelayBeforeOpenMinutesField" : "0" ,
        "timeDelayWindowDurationMinutesField" : "0" ,
        "unmodifiedOpeningCloseSealField" : "0000"
    }
} ,
"lockRemoteStatusRecordField" :
{
    "auditEventCountField" : "355" ,
    "auditEventOdometerField" : "355" ,
    "buildVersionField" : "1078" ,
    "ifAuditStatusWrappedField" : false ,
    "ifBoltExtendedDoorOpenField" : false ,
    "ifBoltRetractedField" : false ,
    "ifBoltWorksSensorConnectedOnOpenField" : 1 ,
    "ifDelayedOpenInProgressField" : false ,
    "ifDoorSensorConnectedOnOpenField" : 1 ,
    "ifDuressOpenInProgressField" : false ,
    "ifLockBankModeActiveField" : true ,
    "ifLockFLMModeActiveField" : true ,
    "ifLockOutInProgressField" : false ,
    "ifLockRouteModeActiveField" : true ,
    "ifRemoteAdministrationEnabledField" : 0 ,
    "ifRemoteDisableField" : false ,
    "ifShelvedOpenInProgressField" : false ,
    "listLockRemoteStatusErrorHistoryRecordField" :
    [
        {
            "lockErrorDateTimeField" : "\Date(1398174347000)\/" ,
            "lockErrorDateTimeFieldSpecified" : false ,
            "lockErrorModeField" : "Lock" ,
            "lockErrorTransactionField" : "Bank User not found in Lock List"
        } ,
        {
            "lockErrorDateTimeField" : "\Date(1398174338000)\/" ,
            "lockErrorDateTimeFieldSpecified" : false ,
            "lockErrorModeField" : "Lock" ,
            "lockErrorTransactionField" : "Bank User not found in Lock List"
        } ,
        {
            "lockErrorDateTimeField" : "\Date(1393356631000)\/" ,
            "lockErrorDateTimeFieldSpecified" : false ,
            "lockErrorModeField" : "Lock" ,
            "lockErrorTransactionField" : "Key-type mismatch Error"
        } ,
        {
            "lockErrorDateTimeField" : "\Date(1393356620000)\/" ,
            "lockErrorDateTimeFieldSpecified" : false ,
            "lockErrorModeField" : "Lock" ,
            "lockErrorTransactionField" : "Key-type mismatch Error"
        }
    ] ,
    "lockBankModeActivationStatusField" : 1 ,
    "lockFLMModeActivationStatusField" : 1 ,
    "lockOpeningOdometerField" : "118" ,
    "lockRouteModeActivationStatusField" : 1 ,
    "majorVersionField" : "2" ,
    "minorVersionField" : "2" ,
    "productCodeField" : "8" ,
    "productFamilyField" : "2" ,
    "serialNumberField" : "001037890"
} ,
"resultRecordField" :
{
    "descriptionField" :
    [

```

```
        "Lock audits queried from lock successfully."
    ],
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
},
"tTRANSACTION_LOCK_REMOTE_DOWNLOAD_AUDITSField" :
{
    "communicationsIDField" : "LockSerialNumber:1037890" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "iAddressField" : null
}
}
```


3.10.3 Web Service Remote Lock Management - Evaluate Lock Event Across Network

CenTran Programming Reference Manual

This transaction is used to evaluate an event that has occurred at a Cencon Gen 2 or higher lock that is connected to a network IP address. The operational and hardware status is read from the lock, as well as any new audits that have occurred at the lock since the last time audits were read.

Any new audits from the lock are added to the Cencon database audit table. If a dispatch to the lock has resulted in the lock being opened and closed, the lock dispatch is closed out in the Cencon database. Any audits that indicate a possible error or intrusion into the lock are flagged in the Cencon database.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- Lock IP Address and Port - Specifies the lock to connect to from CenTran to evaluate the lock events from.
- Lock Communications ID - Specifies an alternate identification of a lock to connect to from CenTran to evaluate the lock events. This is to support alternate methods of handling remote communications with locks for various network topologies.
- Lock Communications Method - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock operational status record, prior to actions taken by CenTran
- Lock operational status record, following actions taken by CenTran
- Lock hardware status record
- Up to three records with lock mode status record and matching lock record data from the Cencon database, for each mode of the lock you have security access to in your Cencon database. This will include the lock mode status record prior to actions taken by CenTran and the lock mode status record following actions taken by CenTran.
- Any Cencon audits resulting from the action taken by CenTran to evaluate the lock event. This will generally be if a dispatch to the lock was closed out.
- Any new audits from the lock indicating the event that occurred.

See [Appendix E - Lock Audit Data](#) for details of the lock audit information returned by CenTran.

Failure:

- Result record indicating failure

Example 1: Evaluating a lock open event.

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/evaluate
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/evaluate
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
```

Output Transaction: Result of evaluating a lock open event.

```
<RESPONSE_LOCK_REMOTE_EVALUATE_EVENT>
  <TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock event evaluated from lock successfully.</Description>
  </ResultRecord>
  <LockRemoteStatusRecord>
```

```

<ProductFamily>2</ProductFamily>
<ProductCode>2</ProductCode>
<MajorVersion>2</MajorVersion>
<MinorVersion>0</MinorVersion>
<BuildVersion>824</BuildVersion>
<SerialNumber>001000107</SerialNumber>
<IfDuressOpenInProgress>false</IfDuressOpenInProgress>
<IfDelayedOpenInProgress>false</IfDelayedOpenInProgress>
<IfBoltRetracted>true</IfBoltRetracted>
<IfShelvedOpenInProgress>false</IfShelvedOpenInProgress>
<IfLockOutInProgress>false</IfLockOutInProgress>
<IfBoltExtendedDoorOpen>false</IfBoltExtendedDoorOpen>
<IfRemoteDisable>false</IfRemoteDisable>

<LockFLMModeActivationStatus>ActivateSingleUser PendingClose</LockFLMModeActivationStatus>
<IfLockFLMModeActive>true</IfLockFLMModeActive>
<LockRouteModeActivationStatus>ActivateSingleUser</LockRouteModeActivationStatus>
<IfLockRouteModeActive>true</IfLockRouteModeActive>
<LockBankModeActivationStatus>ActivateSingleUser</LockBankModeActivationStatus>
<IfLockBankModeActive>true</IfLockBankModeActive>
<LockOpeningOdometer>105</LockOpeningOdometer>
<IfAuditStatusWrapped>false</IfAuditStatusWrapped>
<AuditEventCount>410</AuditEventCount>
<ListLockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Reading Housekeeping Record</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
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  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Key-type mismatch Error</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
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  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Last Audit record not an 'Open'
Audit</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
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</ListLockRemoteStatusErrorHistoryRecord>
<AuditEventOdometer>0</AuditEventOdometer>
<IfDoorSensorConnectedOnOpen>invalid</IfDoorSensorConnectedOnOpen>
<IfBoltWorksSensorConnectedOnOpen>invalid</IfBoltWorksSensorConnectedOnOpen>
<IfRemoteAdministrationEnabled>invalid</IfRemoteAdministrationEnabled>
</LockRemoteStatusRecord>
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  <ProductCode>2</ProductCode>
  <MajorVersion>2</MajorVersion>
  <MinorVersion>0</MinorVersion>
  <BuildVersion>824</BuildVersion>
  <SerialNumber>001000107</SerialNumber>
  <IfDuressOpenInProgress>false</IfDuressOpenInProgress>
  <IfDelayedOpenInProgress>false</IfDelayedOpenInProgress>
  <IfBoltRetracted>true</IfBoltRetracted>
  <IfShelvedOpenInProgress>false</IfShelvedOpenInProgress>
  <IfLockOutInProgress>false</IfLockOutInProgress>
  <IfBoltExtendedDoorOpen>false</IfBoltExtendedDoorOpen>
  <IfRemoteDisable>false</IfRemoteDisable>

  <LockFLMModeActivationStatus>ActivateSingleUser PendingClose</LockFLMModeActivationStatus>
  <IfLockFLMModeActive>true</IfLockFLMModeActive>
  <LockRouteModeActivationStatus>ActivateSingleUser</LockRouteModeActivationStatus>
  <IfLockRouteModeActive>true</IfLockRouteModeActive>

```

```

<LockBankModeActivationStatus>ActivateSingleUser</LockBankModeActivationStatus>
<IfLockBankModeActive>true</IfLockBankModeActive>
<LockOpeningOdometer>105</LockOpeningOdometer>
<IfAuditStatusWrapped>false</IfAuditStatusWrapped>
<AuditEventCount>410</AuditEventCount>
<ListLockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Reading Housekeeping Record</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
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  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
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    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
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    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
    <LockErrorTransaction>Last Audit record not an 'Open'
Audit</LockErrorTransaction>
    <LockErrorMode>Lock</LockErrorMode>
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  <LockRemoteStatusErrorHistoryRecord>
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    <LockErrorMode>Lock</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
</ListLockRemoteStatusErrorHistoryRecord>
<AuditEventOdometer>0</AuditEventOdometer>
<IfDoorSensorConnectedOnOpen>invalid</IfDoorSensorConnectedOnOpen>
<IfBoltWorksSensorConnectedOnOpen>invalid</IfBoltWorksSensorConnectedOnOpen>
<IfRemoteAdministrationEnabled>invalid</IfRemoteAdministrationEnabled>
</PostOperationLockRemoteStatusRecord>
<LockRemoteHardwareStatusRecord>
  <LockKeyReaderStatus>NoKeyPresent</LockKeyReaderStatus>
  <LockKeyBoardStatus>KeyBoardPresent_NoKeysHeld</LockKeyBoardStatus>
  <LastKeyPressed>0</LastKeyPressed>
  <LockDisplayStatus>DisplaySuccessfullyCleared</LockDisplayStatus>
  <LockCamPositionSensorStatus>CamSwitchIsOpen</LockCamPositionSensorStatus>
  <SuperCapVoltage>5.793</SuperCapVoltage>
  <ClockBatteryVoltage>3.076</ClockBatteryVoltage>
  <LockDoorSensorStatus>DoorSensorNotConnected</LockDoorSensorStatus>
  <LockDisableInputStatus>LockEnabled</LockDisableInputStatus>
  <LockPowerSupplyStatus>PowerSupplyGood</LockPowerSupplyStatus>
  <LockSolenoidKickerCapStatus>KickerCapIsDischarged</LockSolenoidKickerCapStatus>
  <LockChangeKeyStatus>ChangeKeyIsNotPresent</LockChangeKeyStatus>
  <LockGPIO1Status>LineHigh</LockGPIO1Status>
  <LockGPIO2Status>LineHigh</LockGPIO2Status>
  <LockOnboardMemoryStatus>MemoryResponding</LockOnboardMemoryStatus>
  <LockOnboardClockStatus>ClockRespondingRunning</LockOnboardClockStatus>

<LockOnboardClockInterruptLineStatus>NoClockInterrupt</LockOnboardClockInterruptLineStatus>
  <LockOnboardClockDateTime>2012-08-28T14:23:36Z</LockOnboardClockDateTime>
  <LockOnboardClockDateTimeRead>2012-08-
28T14:23:19.6434195Z</LockOnboardClockDateTimeRead>
  <Temperature>23</Temperature>
  <VCCSystemVoltage>3.3</VCCSystemVoltage>
  <MemoryFormatVersion>0</MemoryFormatVersion>
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  <LockBreakOutBoxStatus>invalid</LockBreakOutBoxStatus>
  <LockBoltRetractedSwitchStatus>invalid</LockBoltRetractedSwitchStatus>
  <LockBoltExtendedSwitchStatus>invalid</LockBoltExtendedSwitchStatus>
  <LockBoltWorksExtendedSensorStatus>invalid</LockBoltWorksExtendedSensorStatus>
  <LockAlternateChangeKeyStatus>invalid</LockAlternateChangeKeyStatus>
  <LockAuxiliarySerialIO_Num0_Status>invalid</LockAuxiliarySerialIO_Num0_Status>
</LockRemoteHardwareStatusRecord>
<LockRemoteEvaluateModeStatusAndDatabaseRecord>
  <LockRemoteModeStatusRecord>
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    <LockModeOpeningOdometer>7</LockModeOpeningOdometer>

```

```

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<LockMaximumUserCount>0</LockMaximumUserCount>
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<TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
<UnmodifiedOpeningCloseSeal>7865</UnmodifiedOpeningCloseSeal>
<OpeningFirstUserID/>
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  <CanType>04</CanType>
  <KeyID>00000046107A</KeyID>
</OpeningFirstUserKeyInformation>
<OpeningFirstUserTimestamp>2012-08-28T14:14:38Z</OpeningFirstUserTimestamp>
<OpeningSecondUserID/>
<OpeningSecondUserKeyInformation/>
<OpeningSecondUserTimestamp/>
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<IfClockBatteryLowOrResetOnOpen>>false</IfClockBatteryLowOrResetOnOpen>
<ClosingUserID/>
<ClosingUserKeyInformation>
  <CanType>04</CanType>
  <KeyID>00000046107A</KeyID>
</ClosingUserKeyInformation>
<ClosingUserTimestamp>2012-05-23T17:51:17Z</ClosingUserTimestamp>
<ModifiedClosingCloseSeal>0686</ModifiedClosingCloseSeal>
<LockModeClosingOdometer>6</LockModeClosingOdometer>
</LockRemoteModeStatusRecord>
<PostOperationLockRemoteModeStatusRecord>
  <LockModeStatus>Open</LockModeStatus>
  <LockModeOpeningOdometer>7</LockModeOpeningOdometer>
  <LockCurrentUserCount>0</LockCurrentUserCount>
  <LockMaximumUserCount>0</LockMaximumUserCount>
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  <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
  <UnmodifiedOpeningCloseSeal>7865</UnmodifiedOpeningCloseSeal>
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    <KeyID>00000046107A</KeyID>
  </OpeningFirstUserKeyInformation>
  <OpeningFirstUserTimestamp>2012-08-28T14:14:38Z</OpeningFirstUserTimestamp>
  <OpeningSecondUserID/>
  <OpeningSecondUserKeyInformation/>
  <OpeningSecondUserTimestamp/>
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  <IfClockBatteryLowOrResetOnOpen>>false</IfClockBatteryLowOrResetOnOpen>
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  <ClosingUserKeyInformation>
    <CanType>04</CanType>
    <KeyID>00000046107A</KeyID>
  </ClosingUserKeyInformation>
  <ClosingUserTimestamp>2012-05-23T17:51:17Z</ClosingUserTimestamp>
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</PostOperationLockRemoteModeStatusRecord>
<LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-01-23T15:53:55.31Z</StartDate>
  <LastUsedDate>2012-08-28T14:13:50.267Z</LastUsedDate>
  <CustomerNumber>928503</CustomerNumber>
  <LockMode>F</LockMode>
  <IfDualMode>>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
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  <IfRoute2Issued>>false</IfRoute2Issued>
  <IfRoute3Issued>>false</IfRoute3Issued>
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  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
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  <PreviousSeal>5806</PreviousSeal>
  <RouteSeal1>26701</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>5806</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
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  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
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  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
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  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
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  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
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```

```

<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1>123-4567-8910</Description1>
<Description2>2013-10-17</Description2>
<Description3>#34</Description3>
<Description4>Joe Bob Jr.</Description4>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1>Cylinder</UserDefined1>
<UserDefined2>Joe Bob Sr.</UserDefined2>
<UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
<UserDefined4>Jane Bob</UserDefined4>
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<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
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<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
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<DispatcherID2/>
<DispatcherID3/>
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<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
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<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1>F3</PreviousUser1ID1>
<PreviousUser1ID2/>
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<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1>2012-05-23T17:51:24.93Z</PreviousCloseTime1>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>My new service branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
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<BankOpenWindow>0</BankOpenWindow>
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<LockDispatchStatus/>
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<LowBatteryDate/>
<DuressDate/>
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<NetworkPort>35005</NetworkPort>
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  <User2ID/>
  <RouteName/>
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  <SerialNumber>001000107</SerialNumber>
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  <LockMode>F</LockMode>
  <IfDualMode>>false</IfDualMode>
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  <NumberCloseAttempts>0</NumberCloseAttempts>
  <LockSequence>0</LockSequence>
  <IfDispatchedOnRoute>>false</IfDispatchedOnRoute>
  <IfForcedClosed>>false</IfForcedClosed>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>

```



```

<IfActivationCall>false</IfActivationCall>
<DispatchOrder>0</DispatchOrder>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<Region>KENTUCKY</Region>
<IfUnassignedOpenCall>false</IfUnassignedOpenCall>
<ServiceBranch>My new service branch</ServiceBranch>
</LockLogRecord>
</LockRemoteEvaluateModeStatusAndDatabaseRecord>
<LockRemoteEvaluateModeStatusAndDatabaseRecord>
  <LockRemoteModeStatusRecord>
    <LockModeStatus>Closed</LockModeStatus>
    <LockModeOpeningOdometer>3</LockModeOpeningOdometer>
    <LockCurrentUserCount>0</LockCurrentUserCount>
    <LockMaximumUserCount>0</LockMaximumUserCount>
    <TimeDelayBeforeOpenMinutes>0</TimeDelayBeforeOpenMinutes>
    <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
    <UnmodifiedOpeningCloseSeal>7914</UnmodifiedOpeningCloseSeal>
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      <CanType>04</CanType>
      <KeyID>0000006D3288</KeyID>
    </OpeningFirstUserKeyInformation>
    <OpeningFirstUserTimestamp>2012-01-23T16:04:54Z</OpeningFirstUserTimestamp>
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    <OpeningSecondUserKeyInformation/>
    <OpeningSecondUserTimestamp/>
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    <IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
    <ClosingUserID/>
    <ClosingUserKeyInformation/>
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  </LockRemoteModeStatusRecord>
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  <LockModeStatus>Closed</LockModeStatus>
  <LockModeOpeningOdometer>3</LockModeOpeningOdometer>
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  <LockMaximumUserCount>0</LockMaximumUserCount>
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  <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
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  <OpeningFirstUserKeyInformation>
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    <KeyID>0000006D3288</KeyID>
  </OpeningFirstUserKeyInformation>
  <OpeningFirstUserTimestamp>2012-01-23T16:04:54Z</OpeningFirstUserTimestamp>
  <OpeningSecondUserID/>
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  <OpeningSecondUserTimestamp/>
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  <IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
  <ClosingUserID/>
  <ClosingUserKeyInformation/>
  <ClosingUserTimestamp>2012-01-23T16:06:28Z</ClosingUserTimestamp>
  <ModifiedClosingCloseSeal>0000</ModifiedClosingCloseSeal>
  <LockModeClosingOdometer>1</LockModeClosingOdometer>
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  <RecordType>A</RecordType>
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  <LastUsedDate>2012-01-23T16:06:28.397Z</LastUsedDate>
  <CustomerNumber>502460</CustomerNumber>
  <LockMode>R</LockMode>
  <IfDualMode>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
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  <IfForcedClosed>false</IfForcedClosed>
  <IfRoute1Issued>false</IfRoute1Issued>
  <IfRoute2Issued>false</IfRoute2Issued>
  <IfRoute3Issued>false</IfRoute3Issued>
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  <IfActivationCall>false</IfActivationCall>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
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  <PreviousRouteSeal3>0</PreviousRouteSeal3>
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  <OpenTries3>0</OpenTries3>
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  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>

```

```

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<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
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<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
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<Description2>2013-10-17</Description2>
<Description3>#34</Description3>
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<CustomerID>North Bank</CustomerID>
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<UserDefined2>Joe Bob Sr.</UserDefined2>
<UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
<UserDefined4>Jane Bob</UserDefined4>
<Region>KENTUCKY</Region>
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<PreviousUser2ID1/>
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<PreviousOpenTime3/>
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<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
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<BankOpenWindow>0</BankOpenWindow>
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<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
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<LowBatteryDate/>
<DuressDate/>
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<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
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<LockRemoteEvaluateModeStatusAndDatabaseRecord>
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    <OpeningFirstUserKeyInformation>

```

```

        <CanType>84</CanType>
        <KeyID>0000000DE164</KeyID>
    </OpeningFirstUserKeyInformation>
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    <OpeningSecondUserID/>
    <OpeningSecondUserKeyInformation/>
    <OpeningSecondUserTimestamp/>
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    <IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
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    <ClosingUserKeyInformation/>
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    <ModifiedClosingCloseSeal>0000</ModifiedClosingCloseSeal>
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<PostOperationLockRemoteModeStatusRecord>
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    <LockMaximumUserCount>100</LockMaximumUserCount>
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    <UnmodifiedOpeningCloseSeal>0000</UnmodifiedOpeningCloseSeal>
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    </OpeningFirstUserKeyInformation>
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    <OpeningSecondUserID/>
    <OpeningSecondUserKeyInformation/>
    <OpeningSecondUserTimestamp/>
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    <IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
    <ClosingUserID>0000</ClosingUserID>
    <ClosingUserKeyInformation/>
    <ClosingUserTimestamp>2011-10-24T18:07:52Z</ClosingUserTimestamp>
    <ModifiedClosingCloseSeal>0000</ModifiedClosingCloseSeal>
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    <LastUsedDate/>
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    <IfForcedClosed>false</IfForcedClosed>
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    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
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    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
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    <PreviousRouteSeal3>0</PreviousRouteSeal3>
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    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
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    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
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    <Description2>2013-10-17</Description2>
    <Description3>#34</Description3>
    <Description4>Joe Bob Jr.</Description4>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <UserDefined1>Cylinder</UserDefined1>
    <UserDefined2>Joe Bob Sr.</UserDefined2>
    <UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>
    <UserDefined4>Jane Bob</UserDefined4>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>false</IfLastRoute1Issued>

```



```

<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1/>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
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<RouteName3/>
<DispatcherID1/>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1/>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
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<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
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<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
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<LowBatteryDate/>
<DuressDate/>
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<NetworkPort>35005</NetworkPort>
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<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
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<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</LockRemoteEvaluateModeStatusAndDatabaseRecord>
<CenconResponseAuditRecord>
  <EventType>ENV CENTRAN_EVALUATE_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
  <EventDate>2012-08-28T14:23:19.234Z</EventDate>
  <PreviousDate/>
  <LogonUser1ID>CentranSS</LogonUser1ID>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <RouteName/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <SerialNumber>001000107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName>AA001</GroupName>
  <Description>CenTran transaction to evaluate a lock event at IP address:
10.108.6.121:35005</Description>
  <auditPK>2da27085-18a4-46d6-a970-fb25e57ba0d1</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory/>
  <LockTransactionType/>
  <LockTransactionEvent/>
  <LockCloseSeal/>

```

```

<LockFullSealCount/>
<IsLockClockBatteryIsLow/>
<IsLockDuressComboUsed/>
<IsLockCloseSealValid/>
<LockAbbreviatedDeviceID/>
<LockOpenTime/>
<LockCloseTime/>
<IsPossibleLockErrorOrIntrusion/>
<LockAuditIndex/>
<DatabaseLockAuditIndex/>
<ClientIPAddress>10.108.1.80:26213</ClientIPAddress>
<LockIPAddress>10.108.6.121:35005</LockIPAddress>
</CenconResponseAuditRecord>
<LockEventAuditRecord>
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  <EventResult>0</EventResult>
  <EventDate>2012-08-28T14:14:38Z</EventDate>
  <PreviousDate/>
  <LogonUser1ID/>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID>F3</User1ID>
  <User2ID/>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <RouteName/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <SerialNumber>001000107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName>AA001</GroupName>
  <Description>Gen2Lock 1000107 Lock Event: Open Lock</Description>
  <auditPK>c342b995-989a-43d2-9dea-b3590406fb63</auditPK>
  <User1Key>
    <CanType>04</CanType>
    <KeyID>00000046107A</KeyID>
  </User1Key>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>0</LockTransactionCategory>
  <LockTransactionType>16</LockTransactionType>
  <LockTransactionEvent>1</LockTransactionEvent>
  <LockCloseSeal/>
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  <IsLockDuressComboUsed>>false</IsLockDuressComboUsed>
  <IsLockCloseSealValid>>false</IsLockCloseSealValid>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime>2012-08-28T14:14:38Z</LockOpenTime>
  <LockCloseTime/>
  <IsPossibleLockErrorOrIntrusion>>false</IsPossibleLockErrorOrIntrusion>
  <LockAuditIndex>0</LockAuditIndex>
  <DatabaseLockAuditIndex>410</DatabaseLockAuditIndex>
  <ClientIPAddress/>
  <LockIPAddress>10.108.6.121:35005</LockIPAddress>
</LockEventAuditRecord>
</RESPONSE_LOCK_REMOTE_EVALUATE_EVENT>

```

Example 2: Evaluating a lock close event.

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/evaluate
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242/CentranService/rest/lock/evaluate
```

Example Input Transaction: (HTTP Body)

```

<TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>

```

Output Transaction: Result of evaluating a lock close event.

```

<RESPONSE_LOCK_REMOTE_EVALUATE_EVENT>
  <TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_EVALUATE_EVENT>

```

```

<ResultRecord>
  <Result>Success</Result>
  <ErrorCode>RC_OK</ErrorCode>
  <IfRetryValid>>false</IfRetryValid>
  <Description>Lock event evaluated from lock successfully.</Description>
</ResultRecord>
<LockRemoteStatusRecord>
  <ProductFamily>2</ProductFamily>
  <ProductCode>2</ProductCode>
  <MajorVersion>2</MajorVersion>
  <MinorVersion>0</MinorVersion>
  <BuildVersion>824</BuildVersion>
  <SerialNumber>001000107</SerialNumber>
  <IfDuressOpenInProgress>>false</IfDuressOpenInProgress>
  <IfDelayedOpenInProgress>>false</IfDelayedOpenInProgress>
  <IfBoltRetracted>>false</IfBoltRetracted>
  <IfShelvedOpenInProgress>>false</IfShelvedOpenInProgress>
  <IfLockOutInProgress>>false</IfLockOutInProgress>
  <IfBoltExtendedDoorOpen>>false</IfBoltExtendedDoorOpen>
  <IfRemoteDisable>>false</IfRemoteDisable>

<LockFLMModeActivationStatus>ActivateSingleUser_PendingClose</LockFLMModeActivationStatus>
  <IfLockFLMModeActive>>true</IfLockFLMModeActive>
  <LockRouteModeActivationStatus>ActivateSingleUser</LockRouteModeActivationStatus>
  <IfLockRouteModeActive>>true</IfLockRouteModeActive>
  <LockBankModeActivationStatus>ActivateSingleUser</LockBankModeActivationStatus>
  <IfLockBankModeActive>>true</IfLockBankModeActive>
  <LockOpeningOdometer>105</LockOpeningOdometer>
  <IfAuditStatusWrapped>>false</IfAuditStatusWrapped>
  <AuditEventCount>410</AuditEventCount>
  <ListLockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>Reading Housekeeping Record</LockErrorTransaction>
      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>iButton combination resync data write
error</LockErrorTransaction>
      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
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    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorMode>TM Key Error</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>Key-type mismatch Error</LockErrorTransaction>
      <LockErrorMode>Lock</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
      <LockErrorMode>Lock</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>User is Out of their 'Time-Window'</LockErrorTransaction>
      <LockErrorMode>Lock</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
      <LockErrorMode>Lock</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>Last Audit record not an 'Open'
Audit</LockErrorTransaction>
      <LockErrorMode>Lock</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
    <LockRemoteStatusErrorHistoryRecord>
      <LockErrorTransaction>Bank User not found in Lock List</LockErrorTransaction>
      <LockErrorMode>Lock</LockErrorMode>
    </LockRemoteStatusErrorHistoryRecord>
  </ListLockRemoteStatusErrorHistoryRecord>
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  <IfDoorSensorConnectedOnOpen>invalid</IfDoorSensorConnectedOnOpen>
  <IfBoltWorksSensorConnectedOnOpen>invalid</IfBoltWorksSensorConnectedOnOpen>
  <IfRemoteAdministrationEnabled>invalid</IfRemoteAdministrationEnabled>
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  <ProductCode>2</ProductCode>
  <MajorVersion>2</MajorVersion>
  <MinorVersion>0</MinorVersion>
  <BuildVersion>824</BuildVersion>
  <SerialNumber>001000107</SerialNumber>
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  <IfDelayedOpenInProgress>>false</IfDelayedOpenInProgress>
  <IfBoltRetracted>>false</IfBoltRetracted>
  <IfShelvedOpenInProgress>>false</IfShelvedOpenInProgress>
  <IfLockOutInProgress>>false</IfLockOutInProgress>

```

```

<IfBoltExtendedDoorOpen>false</IfBoltExtendedDoorOpen>
<IfRemoteDisable>false</IfRemoteDisable>
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<IfLockFLMModeActive>true</IfLockFLMModeActive>
<LockRouteModeActivationStatus>ActivateSingleUser</LockRouteModeActivationStatus>
<IfLockRouteModeActive>true</IfLockRouteModeActive>
<LockBankModeActivationStatus>ActivateSingleUser</LockBankModeActivationStatus>
<IfLockBankModeActive>true</IfLockBankModeActive>
<LockOpeningOdometer>105</LockOpeningOdometer>
<IfAuditStatusWrapped>false</IfAuditStatusWrapped>
<AuditEventCount>411</AuditEventCount>
<ListLockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
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error</LockErrorTransaction>
    <LockErrorMode>TM Key Error</LockErrorMode>
  </LockRemoteStatusErrorHistoryRecord>
  <LockRemoteStatusErrorHistoryRecord>
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  <RouteSeal1>0</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>0</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName>AA001</GroupName>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1>123-4567-8910</Description1>
  <Description2>2013-10-17</Description2>
  <Description3>#34</Description3>
  <Description4>Joe Bob Jr.</Description4>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1>Cylinder</UserDefined1>
  <UserDefined2>Joe Bob Sr.</UserDefined2>
  <UserDefined3>Joe Bob Jr. the 2nd</UserDefined3>

```

```

<UserDefined4>Jane Bob</UserDefined4>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1/>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1/>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1/>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</LockRemoteEvaluateModeStatusAndDatabaseRecord>
<CenconResponseAuditRecord>
  <EventType>ENV CLOSE LOCK SERIAL</EventType>
  <EventResult>0</EventResult>
  <EventDate>2012-08-28T14:28:58.339Z</EventDate>
  <PreviousDate/>
  <LogonUser1ID>CentranSS</LogonUser1ID>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID>F3</User1ID>
  <User2ID/>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <RouteName/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <SerialNumber>001000107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName>AA001</GroupName>
  <Description>Closed dispatch of F3 to lock by reading the status of the lock across a
serial connection.</Description>
  <auditPK>b3a6c017-3c14-4d7c-9133-eba7b33b77d2</auditPK>
  <User1Key>
    <CanType>04</CanType>
    <KeyID>00000046107A</KeyID>
  </User1Key>

```

```

<User2Key>
  <CanType>FF</CanType>
  <KeyID>FFFFFFFFFFFF</KeyID>
</User2Key>
<LogonKey>
  <CanType>FF</CanType>
  <KeyID>000000000003</KeyID>
</LogonKey>
<LockTransactionCategory/>
<LockTransactionType/>
<LockTransactionEvent/>
<LockCloseSeal/>
<LockFullSealCount/>
<IsLockClockBatteryIsLow/>
<IsLockDuressComboUsed/>
<IsLockCloseSealValid/>
<LockAbbreviatedDeviceID/>
<LockOpenTime/>
<LockCloseTime/>
<IsPossibleLockErrorOrIntrusion/>
<LockAuditIndex/>
<DatabaseLockAuditIndex/>
<ClientIPAddress>10.108.1.80:27910</ClientIPAddress>
<LockIPAddress>10.108.6.121:35005</LockIPAddress>
</CenconResponseAuditRecord>
<CenconResponseAuditRecord>
  <EventType>ENV_CENTRAN_EVALUATE_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
  <EventDate>2012-08-28T14:28:56.976Z</EventDate>
  <PreviousDate/>
  <LogonUser1ID>CentranSS</LogonUser1ID>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName>Gen2Lock_1000107</LockName>
  <LockMode>F</LockMode>
  <RouteName/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <SerialNumber>001000107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName>AA001</GroupName>
  <Description>CenTran transaction to evaluate a lock event at IP address:
10.108.6.121:35005</Description>
  <auditPK>24e728f2-dc3c-4706-9615-61b815826d27</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory/>
  <LockTransactionType/>
  <LockTransactionEvent/>
  <LockCloseSeal/>
  <LockFullSealCount/>
  <IsLockClockBatteryIsLow/>
  <IsLockDuressComboUsed/>
  <IsLockCloseSealValid/>
  <LockAbbreviatedDeviceID/>
  <LockOpenTime/>
  <LockCloseTime/>
  <IsPossibleLockErrorOrIntrusion/>
  <LockAuditIndex/>
  <DatabaseLockAuditIndex/>
  <ClientIPAddress>10.108.1.80:27910</ClientIPAddress>
  <LockIPAddress>10.108.6.121:35005</LockIPAddress>
</CenconResponseAuditRecord>
<LockEventAuditRecord>
  <EventType>ENV_LOCK_EVENT</EventType>
  <EventResult>0</EventResult>
  <EventDate>2012-08-28T14:29:15Z</EventDate>
  <PreviousDate/>
  <LogonUser1ID/>
  <LogonUser2ID/>
  <LogonUser3ID/>
  <User1ID/>
  <User2ID/>
  <LockName>Gen2Lock_1000107</LockName>
  <LockMode>F</LockMode>
  <RouteName/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <Region>KENTUCKY</Region>
  <SerialNumber>001000107</SerialNumber>
  <BankBranchName/>
  <BankUserID>0</BankUserID>
  <BankBranchID>0</BankBranchID>
  <GroupName>AA001</GroupName>
  <Description>Gen2Lock_1000107 Lock Event: Confirm FLM Mode Dispatched Call
Closed</Description>
  <auditPK>db2b82ba-e20c-4dbd-8d23-9004ae4a9fdd</auditPK>
  <User1Key/>
  <User2Key/>
  <LogonKey/>
  <LockTransactionCategory>159</LockTransactionCategory>

```

```

<LockTransactionType>0</LockTransactionType>
<LockTransactionEvent>6</LockTransactionEvent>
<LockCloseSeal>0000</LockCloseSeal>
<LockFullSealCount>1</LockFullSealCount>
<IsLockClockBatteryIsLow>false</IsLockClockBatteryIsLow>
<IsLockDuressComboUsed>false</IsLockDuressComboUsed>
<IsLockCloseSealValid>true</IsLockCloseSealValid>
<LockAbbreviatedDeviceID/>
<LockOpenTime/>
<LockCloseTime>2012-08-28T14:29:15Z</LockCloseTime>
<IsPossibleLockErrorOrIntrusion>false</IsPossibleLockErrorOrIntrusion>
<LockAuditIndex>0</LockAuditIndex>
<DatabaseLockAuditIndex>411</DatabaseLockAuditIndex>
<ClientIPAddress/>
<LockIPAddress>10.108.6.121:35005</LockIPAddress>
</LockEventAuditRecord>
</RESPONSE_LOCK_REMOTE_EVALUATE_EVENT>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran evaluate lock events across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example evaluates lock events though a remote CenTran lock agent persistent network connection:

LockSerialNumber:1037890

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/evaluate
```

Example Input Transaction (HTTP Post) - JSON:

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "IPAddressField" : null
}
```

Example Output Transaction - JSON:

```
{
  "cenconResponseAuditRecordField" :
  [
    {
      "aTMSerialNumberField" : "" ,
      "auditPKField" : "5acf2313-d0f6-446e-9518-bcf9f3dfd741" ,
      "bankBranchIDField" : "-1" ,
      "bankBranchNameField" : "" ,
      "bankUserIDField" : "0" ,
      "clientIPAddressField" : "10.108.6.104:65186" ,
      "customerIDField" : "" ,
      "databaseLockAuditIndexField" : null ,
      "descriptionField" : "Lock time set from 09\11\14 15:22:02 to 09\11\14 15:09:11. Time
updated by CenTran during serial evaluation of lock event." ,
      "eventDateField" : "\Date(1410448151046)\\" ,
      "eventResultField" : "0" ,
      "eventTypeField" : "ENV_CENTRAN_SERIAL_UPDATE_CLOCK" ,
      "groupNameField" : "" ,
      "isLockClockBatteryIsLowField" : null ,
      "isLockCloseSealValidField" : null ,
      "isLockDuressComboUsedField" : null ,
      "isPossibleLockErrorOrIntrusionField" : null ,
      "lockAbbreviatedDeviceIDField" : null ,
      "lockAuditIndexField" : null ,
      "lockCloseSealField" : null ,
      "lockCloseTimeField" : null ,
      "lockFullSealCountField" : null ,
      "lockIPAddressField" : "" ,
      "lockModeField" : 0 ,
      "lockNameField" : "" ,
      "lockOpenTimeField" : null ,
      "lockTransactionCategoryField" : null ,
      "lockTransactionEventField" : null ,
      "lockTransactionTypeField" : null ,
      "logonKeyField" :
      {
        "canTypeField" :
        [
          2
        ] ,
        "keyIDField" :
        [
          0 ,
          0 ,
          16 ,
          35 ,
          240 ,
          215
        ]
      } ,
      "logonUser1IDField" : "CentranSS" ,
      "logonUser2IDField" : "" ,
      "logonUser3IDField" : "" ,
      "previousDateField" : "\Date(1410448922029)\\" ,
      "regionField" : "" ,
      "routeNameField" : "" ,
      "serialNumberField" : "001037890" ,
      "user1IDField" : "" ,
      "user1KeyField" : null ,
      "user2IDField" : "" ,
      "user2KeyField" : null
    } ,
    {
      "aTMSerialNumberField" : "" ,
      "auditPKField" : "c732cc64-a13e-480a-b9b2-4a510e2c39d5" ,
      "bankBranchIDField" : "0" ,
      "bankBranchNameField" : "" ,
      "bankUserIDField" : "0" ,
      "clientIPAddressField" : "10.108.6.104:65186" ,
      "customerIDField" : "North Bank" ,
      "databaseLockAuditIndexField" : null ,
      "descriptionField" : "Centran transaction to evaluate a lock event at IP address: " ,
      "eventDateField" : "\Date(1410448149526)\\" ,
      "eventResultField" : "0" ,
      "eventTypeField" : "ENV_CENTRAN_EVALUATE_LOCK_EVENT" ,
      "groupNameField" : "" ,
      "isLockClockBatteryIsLowField" : null ,

```

```

        "isLockCloseSealValidField" : null ,
        "isLockDuressComboUsedField" : null ,
        "isPossibleLockErrorOrIntrusionField" : null ,
        "lockAbbreviatedDeviceIDField" : null ,
        "lockAuditIndexField" : null ,
        "lockCloseSealField" : null ,
        "lockCloseTimeField" : null ,
        "lockFullSealCountField" : null ,
        "lockIPAddressField" : "" ,
        "lockModeField" : 1 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lockOpenTimeField" : null ,
        "lockTransactionCategoryField" : null ,
        "lockTransactionEventField" : null ,
        "lockTransactionTypeField" : null ,
        "logonKeyField" : null ,
        "logonUser1IDField" : "CentranSS" ,
        "logonUser2IDField" : "" ,
        "logonUser3IDField" : "" ,
        "previousDateField" : null ,
        "regionField" : "KENTUCKY" ,
        "routeNameField" : "" ,
        "serialNumberField" : "001037890" ,
        "user1IDField" : "" ,
        "user1KeyField" : null ,
        "user2IDField" : "" ,
        "user2KeyField" : null
    }
} ,
"lockEventAuditRecordField" : null ,
"lockRemoteEvaluateModeStatusAndDatabaseRecordField" :
[
    {
        "lockLogRecordField" : null ,
        "lockRecordField" :
        {
            "aTMSerialNumberField" : "" ,
            "address1Field" : "" ,
            "address2Field" : "" ,
            "auditCountField" : "8" ,
            "bankBranchNameField" : "" ,
            "bankModeUserNameArrayField" : null ,
            "bankOpenDelayField" : "0" ,
            "bankOpenWindowField" : "0" ,
            "cityField" : "" ,
            "closeSealLengthField" : "4" ,
            "closeTime1Field" : "\"\\Date(1409161010390)\\\"/" ,
            "closeTime2Field" : null ,
            "closeTime3Field" : null ,
            "countryField" : "" ,
            "customerIDField" : "North Bank" ,
            "customerNumberField" : "839474" ,
            "description1Field" : "" ,
            "description2Field" : "" ,
            "description3Field" : "" ,
            "description4Field" : "" ,
            "dispatcherID1Field" : "CentranSS" ,
            "dispatcherID2Field" : "" ,
            "dispatcherID3Field" : "" ,
            "displayIssuedComboUser1Seq1Field" : "" ,
            "displayIssuedComboUser1Seq2Field" : "" ,
            "displayIssuedComboUser1Seq3Field" : "" ,
            "displayIssuedComboUser2Seq1Field" : "" ,
            "displayIssuedComboUser2Seq2Field" : "" ,
            "displayIssuedComboUser2Seq3Field" : "" ,
            "duressDateField" : null ,
            "groupNameField" : "" ,
            "ifActivationCallField" : false ,
            "ifDualModeField" : false ,
            "ifForcedClosedField" : false ,
            "ifLastRoute1IssuedField" : false ,
            "ifLastRoute2IssuedField" : false ,
            "ifLastRoute3IssuedField" : false ,
            "ifLegacyImportField" : false ,
            "ifLockOpenField" : false ,
            "ifNoAlarmField" : false ,
            "ifPreviousRoute1IssuedField" : false ,
            "ifPreviousRoute2IssuedField" : false ,
            "ifPreviousRoute3IssuedField" : false ,
            "ifRoute1IssuedField" : false ,
            "ifRoute2IssuedField" : false ,
            "ifRoute3IssuedField" : false ,
            "ifSecondLineMaintenanceCallField" : false ,
            "ifUnassignedOpenCallField" : false ,
            "issuedComboUser1Seq1Field" : "828097" ,
            "issuedComboUser1Seq2Field" : "0" ,
            "issuedComboUser1Seq3Field" : "0" ,
            "issuedComboUser2Seq1Field" : "0" ,
            "issuedComboUser2Seq2Field" : "0" ,
            "issuedComboUser2Seq3Field" : "0" ,

```

```

"keyCloseSealField" : "301" ,
"lastUsedDateField" : "\/Date(1409161010390)\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\/Date(1408990355833)\/" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\/Date(1408979682850)\/" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "815640" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\/Date(1408979359863)\/" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "25856" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "25856" ,
"previousUser1ID1Field" : "FLM SHA Key 6" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "9775" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "9775" ,
"serialNumberField" : "001037890" ,
"serviceBranchField" : "" ,
"startDateField" : "\/Date(1393346881577)\/" ,
"stateField" : "" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "FLM SHA Key 4" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zIPField" : ""
} ,
"lockRemoteModeStatusRecordField" :
{
    "closingUserIDField" : null ,
    "closingUserKeyInformationField" :
    {
        "canTypeField" :
        [
            24
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            106 ,
            113 ,
            172
        ]
    }
} ,
"closingUserTimestampField" : "\/Date(1409161561000)\/" ,
"ifClockBatteryLowOrResetOnOpenField" : false ,

```

```

        "ifDuressComboUsedOnOpenField" : false ,
        "lockCurrentUserCountField" : "0" ,
        "lockMaximumUserCountField" : "0" ,
        "lockModeClosingOdometerField" : "8" ,
        "lockModeOpeningOdometerField" : "8" ,
        "lockModeStatusField" : 1 ,
        "modifiedClosingCloseSealField" : "3607" ,
        "openingFirstUserIDField" : null ,
        "openingFirstUserKeyInformationField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                113 ,
                172
            ]
        } ,
        "openingFirstUserTimestampField" : "\Date(1409161520000)\/" ,
        "openingSecondUserIDField" : null ,
        "openingSecondUserKeyInformationField" : null ,
        "openingSecondUserTimestampField" : null ,
        "timeDelayBeforeOpenMinutesField" : "0" ,
        "timeDelayWindowDurationMinutesField" : "0" ,
        "unmodifiedOpeningCloseSealField" : "3607"
    } ,
    "postOperationLockRemoteModeStatusRecordField" :
    {
        "closingUserIDField" : null ,
        "closingUserKeyInformationField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                113 ,
                172
            ]
        } ,
        "closingUserTimestampField" : "\Date(1409161561000)\/" ,
        "ifClockBatteryLowOrResetOnOpenField" : false ,
        "ifDuressComboUsedOnOpenField" : false ,
        "lockCurrentUserCountField" : "0" ,
        "lockMaximumUserCountField" : "0" ,
        "lockModeClosingOdometerField" : "8" ,
        "lockModeOpeningOdometerField" : "8" ,
        "lockModeStatusField" : 1 ,
        "modifiedClosingCloseSealField" : "3607" ,
        "openingFirstUserIDField" : null ,
        "openingFirstUserKeyInformationField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                113 ,
                172
            ]
        } ,
        "openingFirstUserTimestampField" : "\Date(1409161520000)\/" ,
        "openingSecondUserIDField" : null ,
        "openingSecondUserKeyInformationField" : null ,
        "openingSecondUserTimestampField" : null ,
        "timeDelayBeforeOpenMinutesField" : "0" ,
        "timeDelayWindowDurationMinutesField" : "0" ,
        "unmodifiedOpeningCloseSealField" : "3607"
    }
} ,
{
    "lockLogRecordField" : null ,
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,

```



```

"address1Field" : "" ,
"address2Field" : "" ,
"auditCountField" : "10" ,
"bankBranchNameField" : "" ,
"bankModeUserNameArrayField" : null ,
"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "" ,
"closeSealLengthField" : "4" ,
"closeTime1Field" : "\Date(1404829973047)\" ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "217355" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "MHG\\LSTALL" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : true ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "735185" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "28944" ,
"lastUsedDateField" : "\Date(1404829973047)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 1 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1404829819817)\" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1402423454137)\" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "188768" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1402423372783)\" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "13064" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "13064" ,
"previousUser1ID1Field" : "Route SHA Key 2" ,

```

```

"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "9821" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "9821" ,
"serialNumberField" : "001037890" ,
"serviceBranchField" : "" ,
"startDateField" : "\/Date(1393346892117)\/" ,
"stateField" : "" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "Route SHA Key 2" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zIPField" : ""
} ,
"lockRemoteModeStatusRecordField" :
{
    "closingUserIDField" : null ,
    "closingUserKeyInformationField" : null ,
    "closingUserTimestampField" : "\/Date(1404829973000)\/" ,
    "ifClockBatteryLowOrResetOnOpenField" : false ,
    "ifDuressComboUsedOnOpenField" : false ,
    "lockCurrentUserCountField" : "0" ,
    "lockMaximumUserCountField" : "0" ,
    "lockModeClosingOdometerField" : "10" ,
    "lockModeOpeningOdometerField" : "10" ,
    "lockModeStatusField" : 1 ,
    "modifiedClosingCloseSealField" : "3675" ,
    "openingFirstUserIDField" : null ,
    "openingFirstUserKeyInformationField" :
    {
        "canTypeField" :
        [
            24
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            106 ,
            183 ,
            80
        ]
    } ,
    "openingFirstUserTimestampField" : "\/Date(1404830173000)\/" ,
    "openingSecondUserIDField" : null ,
    "openingSecondUserKeyInformationField" : null ,
    "openingSecondUserTimestampField" : null ,
    "timeDelayBeforeOpenMinutesField" : "0" ,
    "timeDelayWindowDurationMinutesField" : "0" ,
    "unmodifiedOpeningCloseSealField" : "3675"
} ,
"postOperationLockRemoteModeStatusRecordField" :
{
    "closingUserIDField" : null ,
    "closingUserKeyInformationField" : null ,
    "closingUserTimestampField" : "\/Date(1404829973000)\/" ,
    "ifClockBatteryLowOrResetOnOpenField" : false ,
    "ifDuressComboUsedOnOpenField" : false ,
    "lockCurrentUserCountField" : "0" ,
    "lockMaximumUserCountField" : "0" ,
    "lockModeClosingOdometerField" : "10" ,
    "lockModeOpeningOdometerField" : "10" ,
    "lockModeStatusField" : 1 ,
    "modifiedClosingCloseSealField" : "3675" ,
    "openingFirstUserIDField" : null ,
    "openingFirstUserKeyInformationField" :
    {
        "canTypeField" :
        [
            24
        ] ,

```

```

        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            106 ,
            183 ,
            80
        ]
    } ,
    "openingFirstUserTimestampField" : "\Date(1404830173000)\/" ,
    "openingSecondUserIDField" : null ,
    "openingSecondUserKeyInformationField" : null ,
    "openingSecondUserTimestampField" : null ,
    "timeDelayBeforeOpenMinutesField" : "0" ,
    "timeDelayWindowDurationMinutesField" : "0" ,
    "unmodifiedOpeningCloseSealField" : "3675"
} ,
{
    "lockLogRecordField" : null ,
    "lockRecordField" :
    {
        "aTMSerialNumberField" : "" ,
        "address1Field" : "" ,
        "address2Field" : "" ,
        "auditCountField" : "1" ,
        "bankBranchNameField" : "North Bank Branch" ,
        "bankModeUserNameArrayField" :
        [
            "BU01" ,
            "BU03" ,
            "BU04" ,
            "BU05" ,
            "BU06" ,
            "Bank SHA Key 10001" ,
            "Bank SHA Key 10002" ,
            "Bank SHA Key 10003" ,
            "Bank SHA Key 10004" ,
            "Bank SHA 10005" ,
            "BU000001" ,
            "BU000002" ,
            "BU000003" ,
            "BU000004" ,
            "BU000005" ,
            "BU000006" ,
            "BU000007" ,
            "BU000008" ,
            "BU000009" ,
            "BU000010" ,
            "BU000011" ,
            "BU000012" ,
            "BU000013" ,
            "BU000014" ,
            "BU000015" ,
            "BU000016" ,
            "BU000017" ,
            "BU000018" ,
            "BU000019" ,
            "BU000020" ,
            "BU000021" ,
            "BU000022" ,
            "BU000023" ,
            "BU000024" ,
            "BU000025" ,
            "BU000026" ,
            "BU000027" ,
            "BU000028" ,
            "BU000029" ,
            "BU000030" ,
            "BU000031" ,
            "BU000032" ,
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            "BU000043" ,
            "BU000044" ,
            "BU000045" ,
            "BU000046" ,
            "BU000047" ,
            "BU000048" ,
            "BU000049" ,
            "BU000050" ,

```

```

"BU000051" ,
"BU000052" ,
"BU000053" ,
"BU000054" ,
"BU000055" ,
"BU000056" ,
"BU000057" ,
"BU000058" ,
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"BU000062" ,
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"BU000070" ,
"BU000071" ,
"BU000072" ,
"BU000073" ,
"BU000074" ,
"BU000075" ,
"BU000076" ,
"BU000077" ,
"BU000078" ,
"BU000079" ,
"BU000080" ,
"BU000081" ,
"BU000082" ,
"BU000083" ,
"BU000084" ,
"BU000085" ,
"BU000086"
] ,
"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "" ,
"closeSealLengthField" : "0" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "National City Bank" ,
"customerNumberField" : "775608" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "0" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\\Date(1402424050017)\\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,

```

```

"lockModeField" : 2 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : null ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : null ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "0" ,
"previousUser1ID1Field" : "" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "0" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "0" ,
"serialNumberField" : "001037890" ,
"serviceBranchField" : "" ,
"startDateField" : "\Date(1393346968533)\/" ,
"stateField" : "" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zIPField" : ""
} ,
"lockRemoteModeStatusRecordField" :
{
    "closingUserIDField" : "0000" ,
    "closingUserKeyInformationField" : null ,
    "closingUserTimestampField" : "\Date(1402423558000)\/" ,
    "ifClockBatteryLowOrResetOnOpenField" : false ,
    "ifDuressComboUsedOnOpenField" : false ,
    "lockCurrentUserCountField" : "96" ,
    "lockMaximumUserCountField" : "100" ,
    "lockModeClosingOdometerField" : "5" ,
    "lockModeOpeningOdometerField" : "5" ,
    "lockModeStatusField" : 1 ,
    "modifiedClosingCloseSealField" : "0000" ,
    "openingFirstUserIDField" : "10004" ,
    "openingFirstUserKeyInformationField" :
    {
        "canTypeField" :
        [
            24
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            106 ,

```

```

168 ,
255
    ],
    "openingFirstUserTimestampField" : "\Date(1402423524000)\",
    "openingSecondUserIDField" : null ,
    "openingSecondUserKeyInformationField" : null ,
    "openingSecondUserTimestampField" : null ,
    "timeDelayBeforeOpenMinutesField" : "0" ,
    "timeDelayWindowDurationMinutesField" : "0" ,
    "unmodifiedOpeningCloseSealField" : "0000"
  } ,
  "postOperationLockRemoteModeStatusRecordField" :
  {
    "closingUserIDField" : "0000" ,
    "closingUserKeyInformationField" : null ,
    "closingUserTimestampField" : "\Date(1402423558000)\",
    "ifClockBatteryLowOrResetOnOpenField" : false ,
    "ifDuressComboUsedOnOpenField" : false ,
    "lockCurrentUserCountField" : "96" ,
    "lockMaximumUserCountField" : "100" ,
    "lockModeClosingOdometerField" : "5" ,
    "lockModeOpeningOdometerField" : "5" ,
    "lockModeStatusField" : 1 ,
    "modifiedClosingCloseSealField" : "0000" ,
    "openingFirstUserIDField" : "10004" ,
    "openingFirstUserKeyInformationField" :
    {
      "canTypeField" :
      [
        24
      ] ,
      "keyIDField" :
      [
        0 ,
        0 ,
        0 ,
        106 ,
        168 ,
        255
      ]
    } ,
    "openingFirstUserTimestampField" : "\Date(1402423524000)\",
    "openingSecondUserIDField" : null ,
    "openingSecondUserKeyInformationField" : null ,
    "openingSecondUserTimestampField" : null ,
    "timeDelayBeforeOpenMinutesField" : "0" ,
    "timeDelayWindowDurationMinutesField" : "0" ,
    "unmodifiedOpeningCloseSealField" : "0000"
  }
} ,
"lockRemoteHardwareStatusRecordField" :
{
  "clockBatteryVoltageField" : 3.253 ,
  "lastKeyPressedField" : 0 ,
  "lockAlternateChangeKeyStatusField" : 0 ,
  "lockAuxiliarySerialIO_Num0_StatusField" : 0 ,
  "lockBoltExtendedSwitchStatusField" : 3 ,
  "lockBoltRetractedSwitchStatusField" : 0 ,
  "lockBoltWorksExtendedSensorStatusField" : 0 ,
  "lockBreakOutBoxStatusField" : 0 ,
  "lockCamPositionSensorStatusField" : 2 ,
  "lockChangeKeyStatusField" : 0 ,
  "lockControlCardStatusField" : 0 ,
  "lockDisableInputStatusField" : 0 ,
  "lockDisplayStatusField" : 2 ,
  "lockDoorSensorStatusField" : 0 ,
  "lockGPIO1StatusField" : 0 ,
  "lockGPIO2StatusField" : 0 ,
  "lockKeyBoardStatusField" : 4 ,
  "lockKeyReaderStatusField" : 0 ,
  "lockOnboardClockDateTimeField" : "\Date(1410448921000)\",
  "lockOnboardClockDateTimeReadField" : "\Date(1410448150016)\",
  "lockOnboardClockInterruptLineStatusField" : 0 ,
  "lockOnboardClockStatusField" : 0 ,
  "lockOnboardMemoryStatusField" : 0 ,
  "lockPowerSupplyStatusField" : 2 ,
  "lockSolenoidKickerCapStatusField" : 2 ,
  "memoryFormatVersionField" : "0" ,
  "superCapVoltageField" : 10.241 ,
  "temperatureField" : 18.3 ,
  "vCCSystemVoltageField" : 3.3
} ,
"lockRemoteStatusRecordField" :
{
  "auditEventCountField" : "355" ,
  "auditEventOdometerField" : "355" ,
  "buildVersionField" : "1078" ,
  "ifAuditStatusWrappedField" : false ,

```

```

    "ifBoltExtendedDoorOpenField" : false ,
    "ifBoltRetractedField" : false ,
    "ifBoltWorksSensorConnectedOnOpenField" : 1 ,
    "ifDelayedOpenInProgressField" : false ,
    "ifDoorSensorConnectedOnOpenField" : 1 ,
    "ifDuressOpenInProgressField" : false ,
    "ifLockBankModeActiveField" : true ,
    "ifLockFLIMModeActiveField" : true ,
    "ifLockOutInProgressField" : false ,
    "ifLockRouteModeActiveField" : true ,
    "ifRemoteAdministrationEnabledField" : 0 ,
    "ifRemoteDisableField" : false ,
    "ifShelvedOpenInProgressField" : false ,
    "listLockRemoteStatusErrorHistoryRecordField" :
    [
        {
            "lockErrorDateTimeField" : "\Date(1398174347000)\/" ,
            "lockErrorDateTimeFieldSpecified" : false ,
            "lockErrorModeField" : "Lock" ,
            "lockErrorTransactionField" : "Bank User not found in Lock List"
        } ,
        {
            "lockErrorDateTimeField" : "\Date(1398174338000)\/" ,
            "lockErrorDateTimeFieldSpecified" : false ,
            "lockErrorModeField" : "Lock" ,
            "lockErrorTransactionField" : "Bank User not found in Lock List"
        } ,
        {
            "lockErrorDateTimeField" : "\Date(1393356631000)\/" ,
            "lockErrorDateTimeFieldSpecified" : false ,
            "lockErrorModeField" : "Lock" ,
            "lockErrorTransactionField" : "Key-type mismatch Error"
        } ,
        {
            "lockErrorDateTimeField" : "\Date(1393356620000)\/" ,
            "lockErrorDateTimeFieldSpecified" : false ,
            "lockErrorModeField" : "Lock" ,
            "lockErrorTransactionField" : "Key-type mismatch Error"
        }
    ] ,
    "lockBankModeActivationStatusField" : 1 ,
    "lockFLIMModeActivationStatusField" : 1 ,
    "lockOpeningOdometerField" : "118" ,
    "lockRouteModeActivationStatusField" : 1 ,
    "majorVersionField" : "2" ,
    "minorVersionField" : "2" ,
    "productCodeField" : "8" ,
    "productFamilyField" : "2" ,
    "serialNumberField" : "001037890"
} ,
"postOperationLockRemoteStatusRecordField" :
{
    "auditEventCountField" : "355" ,
    "auditEventOdometerField" : "355" ,
    "buildVersionField" : "1078" ,
    "ifAuditStatusWrappedField" : false ,
    "ifBoltExtendedDoorOpenField" : false ,
    "ifBoltRetractedField" : false ,
    "ifBoltWorksSensorConnectedOnOpenField" : 1 ,
    "ifDelayedOpenInProgressField" : false ,
    "ifDoorSensorConnectedOnOpenField" : 1 ,
    "ifDuressOpenInProgressField" : false ,
    "ifLockBankModeActiveField" : true ,
    "ifLockFLIMModeActiveField" : true ,
    "ifLockOutInProgressField" : false ,
    "ifLockRouteModeActiveField" : true ,
    "ifRemoteAdministrationEnabledField" : 0 ,
    "ifRemoteDisableField" : false ,
    "ifShelvedOpenInProgressField" : false ,
    "listLockRemoteStatusErrorHistoryRecordField" :
    [
        {
            "lockErrorDateTimeField" : "\Date(1398174347000)\/" ,
            "lockErrorDateTimeFieldSpecified" : false ,
            "lockErrorModeField" : "Lock" ,
            "lockErrorTransactionField" : "Bank User not found in Lock List"
        } ,
        {
            "lockErrorDateTimeField" : "\Date(1398174338000)\/" ,
            "lockErrorDateTimeFieldSpecified" : false ,
            "lockErrorModeField" : "Lock" ,
            "lockErrorTransactionField" : "Bank User not found in Lock List"
        } ,
        {
            "lockErrorDateTimeField" : "\Date(1393356631000)\/" ,
            "lockErrorDateTimeFieldSpecified" : false ,
            "lockErrorModeField" : "Lock" ,
            "lockErrorTransactionField" : "Key-type mismatch Error"
        }
    ]
}

```

```

        "lockErrorDateTimeField" : "\/Date(1393356620000)\/" ,
        "lockErrorDateTimeFieldSpecified" : false ,
        "lockErrorModeField" : "Lock" ,
        "lockErrorTransactionField" : "Key-type mismatch Error"
    } ,
    "lockBankModeActivationStatusField" : 1 ,
    "lockFLIModeActivationStatusField" : 1 ,
    "lockOpeningOdometerField" : "118" ,
    "lockRouteModeActivationStatusField" : 1 ,
    "majorVersionField" : "2" ,
    "minorVersionField" : "2" ,
    "productCodeField" : "8" ,
    "productFamilyField" : "2" ,
    "serialNumberField" : "001037890"
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Lock event evaluated from lock successfully."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_LOCK_REMOTE_EVALUATE_EVENTField" :
{
    "communicationsIDField" : "LockSerialNumber:1037890" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "iPAddressField" : null
}
}

```


3.10.4 Web Service Remote Lock Management - Activate Lock Across Network

CenTran Programming Reference Manual

This transaction is used to activate a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to activate.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to activate. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Activate Lock Serial Record** - Specifies the information to used activate the lock.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Activate Lock Serial Record:

- **Lock Name** - Lock name and mode is a unique identifier for a lock record. The lock name can be up to 64 characters. This is a required field.
- **Lock Mode** - The lock mode identifies a mode on a lock. This is a required field. It can be one of the following values:
 - **F** - This indicates FLM (First Line Maintenance) mode. This is a dispatched lock mode, supporting a single dispatch at a time. FLM lock users are dispatched a one time combination to open the lock with a specific electronic key.
 - **R** - This indicates Route mode. This is a dispatched lock mode, supporting up to three dispatches at a time. Route lock users are dispatched a one time combination to open the lock with a specific electronic key.
 - **B** - This indicates Bank mode. This lock mode uses a table of up to 100 bank mode users for a Cencon Gen 2 lock. Bank lock users must be added to the lock user table to be allowed to open the lock. Each Bank lock user can set their own fixed combination for opening the lock.
- **Serial Number** - This is the serial number of the lock being activated. This serial number must match the lock being activated, or the activation will not be permitted. This value can be retrieved from the lock by remote communications or by doing a #2 keypad command at the lock. This is a required field. Serial number and mode is another unique identifier for a lock record.
- **If Dual Mode** - This flag indicates if the lock requires a single user or dual users to open the lock. This setting can be changed after lock activation using the Lock Remote Set Single Dual Access transaction. This is a required field. Possible values for this field are 1, true, 0, false.
- **Customer ID** - This is a 64 character field to identify a customer ID. The customer ID is a unique identifier for a customer record in the Cencon database. This field can be left blank. If this value is set, it must match a valid Customer ID entry in the Cencon database Customer table.
- **ATM Serial Number** - This is a 64 character field to identify an ATM serial number. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Description 1** - This is a 40 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Description 2** - This is a 40 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Description 3** - This is a 40 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Description 4** - This is a 40 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **User Defined 1** - This is a 64 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **User Defined 2** - This is a 64 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **User Defined 3** - This is a 64 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **User Defined 4** - This is a 64 character field to associate descriptive information with the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Region** - This is a 64 character field to associate a region with the lock and mode. The region name must match an existing region record in the Cencon database. If region control is set to active for the Cencon system, then region is used to restrict what Cencon/CenTran dispatch users can view the lock in reports. It also restricts what lock users can be dispatched or assigned to the lock. If an FLM or Route lock user is associated with a different region, then they are not permitted to be dispatched to the lock. If a Bank lock user is associated with a different region, then they are not permitted to be added to the lock user table for Bank mode. This is an optional field, however if region control is active you will need to specify a region.
- **Service Branch** - This is a 64 character field to identify a service branch for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Address 1** - This is a 128 character field to allow an address to be set for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Address 2** - This is a 128 character field to allow an address to be set for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **City** - This is a 64 character field to allow a city to be set for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **State** - This is a 32 character field to allow a state to be set for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **ZIP** - This is a 16 character field to allow a postal service ZIP code to be set for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Country** - This is a 32 character field to allow a country to be set for the lock. This field can be left blank. This optional field can be used as needed for managing operations with the Cencon system.
- **Time Zone ID** - This is a 64 character field to set the time zone ID for the lock. This field can be left blank. If this field is populated, the time zone ID must exactly match an operating system time zone ID, or an error will occur. If this field is left

blank, the CenTran server local time zone will automatically be used. This field is used to identify the time zone ID for the lock. The lock time zone ID is used to generate the daylight savings time transition table for the lock when the lock time is set. It is used for the lock to determine local time depending on the current daylight savings time offset. This affects lock user time windows, if any, in relation to the current local time. The daylight savings time transition table is initialized by lock mode, so it can be different for each lock mode. The lock daylight savings time transition table covers a period of 20 years. It is updated whenever the lock time is set. The lock daylight savings time transition table is generated from time zone information from the operating system, so if the operating system is out of date, the daylight savings time settings may be affected.

- **Bank Branch Name** - The bank branch name only applies to bank mode of the lock. If you are activating the bank mode of a lock, then this field must be set to match an existing Bank Branch in the Cencon database. The bank mode users you assign to the lock must also be assigned to the same bank branch as the lock.
- **Bank Mode User Name Array** - The bank mode user name array only applies to bank mode of the lock. The bank mode user name array is an array of user names for bank mode lock users to be assigned to the lock. If you are activating a bank mode lock, you must provide at least two users to be initially assigned to the lock. The user names specified must match valid bank mode lock user keys that are assigned to the same bank branch as the lock. If region control is active, then the bank mode lock users must also be assigned to the same region as the lock.
- **Bank Open Delay** - The bank open delay only applies to bank mode of the lock. This is the number of minutes (from 1 to 99) that a user will have to wait, after entering a combination and inserting the Personal Identifier Key before the lock will open. If no Time Delay to Open is desired, set this field to 0. It is an optional field, and will default to 0 (no delay) if not set. The Bank Open Delay and Bank Open Window values must be either both zero or both non-zero.
- **Bank Open Window** - The bank open window only applies to bank mode of the lock. The second part of activating with Time Delay is the Window to Open. This specifies the amount of time, in minutes (from 1 to 99), in which a user must re-insert their key to open the lock after the Time Delay has expired. If the lock is not opened before the Window to Open elapses, the lock resets and the combination(s) and key(s) must be repeated, the time delay elapsed and then the lock opened. It is an optional field, and will default to 0 (no delay) if not set. The Bank Open Delay and Bank Open Window values must be either both zero or both non-zero.

Transaction information returned:

Success:

- Result record indicating success
- Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Note

The Cencon Gen 2 lock supports daylight savings time changes through the use of a time offset transition table. This table contains up to 40 entries, which is sufficient for 20 years of operation with two transitions a year. This table is initialized for each lock mode when the lock mode is activated. It is also updated when the time is updated on the lock.

The daylight savings time transition table for the Cencon Gen 2 lock is generated from the selected time zone, using daylight saving time information from the host computer. If the time zone ID is not specified when activating a lock, then the currently set time zone on the host computer is used.

The following is a table of available time zone IDs for the Windows operating system using English. Other language installations may make use of different language time zone IDs.

Windows Time Zone IDs:

UTC Offset	Time Zone ID
-12:00:00	Dateline Standard Time
-11:00:00	UTC-11
-10:00:00	Hawaiian Standard Time
-09:00:00	Alaskan Standard Time
-08:00:00	Pacific Standard Time (Mexico)
-08:00:00	Pacific Standard Time
-07:00:00	US Mountain Standard Time
-07:00:00	Mountain Standard Time (Mexico)
-07:00:00	Mountain Standard Time
-06:00:00	Central America Standard Time
-06:00:00	Central Standard Time
-06:00:00	Central Standard Time (Mexico)
-06:00:00	Canada Central Standard Time
-05:00:00	SA Pacific Standard Time
-05:00:00	Eastern Standard Time
-05:00:00	US Eastern Standard Time
-04:30:00	Venezuela Standard Time
-04:00:00	Paraguay Standard Time
-04:00:00	Atlantic Standard Time

-04:00:00	Central Brazilian Standard Time
-04:00:00	SA Western Standard Time
-04:00:00	Pacific SA Standard Time
-03:30:00	Newfoundland Standard Time
-03:00:00	E. South America Standard Time
-03:00:00	Argentina Standard Time
-03:00:00	SA Eastern Standard Time
-03:00:00	Greenland Standard Time
-03:00:00	Montevideo Standard Time
-03:00:00	Bahia Standard Time
-02:00:00	UTC-02
-02:00:00	Mid-Atlantic Standard Time
-01:00:00	Azores Standard Time
-01:00:00	Cape Verde Standard Time
00:00:00	Morocco Standard Time
00:00:00	UTC
00:00:00	GMT Standard Time
00:00:00	Greenwich Standard Time
01:00:00	W. Europe Standard Time
01:00:00	Central Europe Standard Time
01:00:00	Romance Standard Time
01:00:00	Central European Standard Time
01:00:00	W. Central Africa Standard Time
01:00:00	Namibia Standard Time
02:00:00	Jordan Standard Time
02:00:00	GTB Standard Time
02:00:00	Middle East Standard Time
02:00:00	Egypt Standard Time
02:00:00	Syria Standard Time
02:00:00	E. Europe Standard Time
02:00:00	South Africa Standard Time
02:00:00	FLE Standard Time
02:00:00	Turkey Standard Time
02:00:00	Israel Standard Time
02:00:00	Kaliningrad Standard Time
02:00:00	Libya Standard Time
03:00:00	Arabic Standard Time
03:00:00	Arab Standard Time
03:00:00	Belarus Standard Time
03:00:00	Russian Standard Time
03:00:00	E. Africa Standard Time
03:30:00	Iran Standard Time
04:00:00	Arabian Standard Time
04:00:00	Azerbaijan Standard Time
04:00:00	Russia Time Zone 3
04:00:00	Mauritius Standard Time
04:00:00	Georgian Standard Time
04:00:00	Caucasus Standard Time
04:30:00	Afghanistan Standard Time
05:00:00	West Asia Standard Time
05:00:00	Ekaterinburg Standard Time
05:00:00	Pakistan Standard Time
05:30:00	India Standard Time
05:30:00	Sri Lanka Standard Time
05:45:00	Nepal Standard Time
06:00:00	Central Asia Standard Time
06:00:00	Bangladesh Standard Time
06:00:00	N. Central Asia Standard Time
06:30:00	Myanmar Standard Time
07:00:00	SE Asia Standard Time
07:00:00	North Asia Standard Time
08:00:00	China Standard Time
08:00:00	North Asia East Standard Time
08:00:00	Singapore Standard Time
08:00:00	W. Australia Standard Time
08:00:00	Taipei Standard Time
08:00:00	Ulaanbaatar Standard Time
09:00:00	Tokyo Standard Time
09:00:00	Korea Standard Time
09:00:00	Yakutsk Standard Time
09:30:00	Cen. Australia Standard Time
09:30:00	AUS Central Standard Time
10:00:00	E. Australia Standard Time
10:00:00	AUS Eastern Standard Time
10:00:00	West Pacific Standard Time

10:00:00	Tasmania Standard Time
10:00:00	Magadan Standard Time
10:00:00	Vladivostok Standard Time
11:00:00	Russia Time Zone 10
11:00:00	Central Pacific Standard Time
12:00:00	Russia Time Zone 11
12:00:00	New Zealand Standard Time
12:00:00	UTC+12
12:00:00	Fiji Standard Time
12:00:00	Kamchatka Standard Time
13:00:00	Tonga Standard Time
13:00:00	Samoa Standard Time
14:00:00	Line Islands Standard Time

Example - Activate FLM Mode

Input Transaction Format: (HTTP Post)

https://{host}/CentranService/rest/lock/activate

Example Input Transaction: (HTTP Post)

https://kml-3242.domain.local/CentranService/rest/lock/activate

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_ACTIVATE>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <ActivateLockSerialRecord>
    <Country>USA</Country>
    <ZIP>40508-1200</ZIP>
    <State>Kentucky</State>
    <City>Lexington</City>
    <Address1>749 West Short Street</Address1>
    <ServiceBranch>North Service Branch</ServiceBranch>
    <Region>KENTUCKY</Region>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <CustomerID>North Bank</CustomerID>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>1000107</SerialNumber>
    <LockMode>F</LockMode>
    <LockName>Gen2Lock 1000107</LockName>
  </ActivateLockSerialRecord>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_ACTIVATE>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_ACTIVATE>
  <TRANSACTION_LOCK_REMOTE_ACTIVATE>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <ActivateLockSerialRecord>
      <Country>USA</Country>
      <ZIP>40508-1200</ZIP>
      <State>Kentucky</State>
      <City>Lexington</City>
      <Address1>749 West Short Street</Address1>
      <ServiceBranch>North Service Branch</ServiceBranch>
      <Region>KENTUCKY</Region>
      <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
      <CustomerID>North Bank</CustomerID>
      <IfDualMode>false</IfDualMode>
      <SerialNumber>1000107</SerialNumber>
      <LockMode>F</LockMode>
      <LockName>Gen2Lock 1000107</LockName>
    </ActivateLockSerialRecord>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_ACTIVATE>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock mode activated successfully.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-10-18T19:42:49.541Z</StartDate>
    <LastUsedDate/>
    <CustomerNumber>964592</CustomerNumber>
    <LockMode>F</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
```

```
<AuditCount>1</AuditCount>
<IfLockOpen>>false</IfLockOpen>
<IfForcedClosed>>false</IfForcedClosed>
<IfRoute1Issued>>false</IfRoute1Issued>
<IfRoute2Issued>>false</IfRoute2Issued>
<IfRoute3Issued>>false</IfRoute3Issued>
<IfNoAlarm>>false</IfNoAlarm>
<IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
<IfActivationCall>>false</IfActivationCall>
<IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
<Seal>21260</Seal>
<PreviousSeal>0</PreviousSeal>
<RouteSeal1>0</RouteSeal1>
<RouteSeal2>0</RouteSeal2>
<RouteSeal3>0</RouteSeal3>
<PreviousRouteSeal1>0</PreviousRouteSeal1>
<PreviousRouteSeal2>0</PreviousRouteSeal2>
<PreviousRouteSeal3>0</PreviousRouteSeal3>
<OpenTries1>0</OpenTries1>
<OpenTries2>0</OpenTries2>
<OpenTries3>0</OpenTries3>
<TransferReturnCode>0</TransferReturnCode>
<IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
<IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
<IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
<IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
<IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
<IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
<PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
<PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
<PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
<PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
<PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
<PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
<GroupName/>
<OriginalSerialNumber>000000</OriginalSerialNumber>
<Description1/>
<Description2/>
<Description3/>
<Description4/>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
<UserDefined1/>
<UserDefined2/>
<UserDefined3/>
<UserDefined4/>
<Region>KENTUCKY</Region>
<IfLastRoute1Issued>>false</IfLastRoute1Issued>
<IfLastRoute2Issued>>false</IfLastRoute2Issued>
<IfLastRoute3Issued>>false</IfLastRoute3Issued>
<User1ID1/>
<User1ID2/>
<User1ID3/>
<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1/>
<RouteName2/>
<RouteName3/>
<DispatcherID1/>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1/>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Service Branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>21260</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
```

```

<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</RESPONSE_LOCK_REMOTE_ACTIVATE>

```

Example - Activate Bank Mode

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/activate
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/activate
```

Example Input Transaction: (HTTP Body)

```

<TRANSACTION_LOCK_REMOTE_ACTIVATE>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <ActivateLockSerialRecord>
    <BankOpenWindow>5</BankOpenWindow>
    <BankOpenDelay>5</BankOpenDelay>
    <BankModeUserNameArray>
      <UserID>BU01</UserID>
      <UserID>BU02</UserID>
      <UserID>BU03</UserID>
      <UserID>BU04</UserID>
      <UserID>BU05</UserID>
    </BankModeUserNameArray>
    <BankBranchName>North Bank Branch</BankBranchName>
    <TimeZoneID>Eastern Standard Time</TimeZoneID>
    <Country>USA</Country>
    <ZIP>40508-1200</ZIP>
    <State>Kentucky</State>
    <City>Lexington</City>
    <Address1>749 West Short Street</Address1>
    <ServiceBranch>North Bank Service</ServiceBranch>
    <Region>KENTUCKY</Region>
    <UserDefined1>ATM Model #3</UserDefined1>
    <Description2>Serviced by Fred and John</Description2>
    <Description1>Truck #1</Description1>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <CustomerID>North Bank</CustomerID>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>1000107</SerialNumber>
    <LockMode>B</LockMode>
    <LockName>Gen2Lock 1000107</LockName>
  </ActivateLockSerialRecord>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_ACTIVATE>

```

Output Transaction:

```

<RESPONSE_LOCK_REMOTE_ACTIVATE>
  <TRANSACTION_LOCK_REMOTE_ACTIVATE>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <ActivateLockSerialRecord>
      <BankOpenWindow>5</BankOpenWindow>
      <BankOpenDelay>5</BankOpenDelay>
      <BankModeUserNameArray>
        <UserID>BU01</UserID>
        <UserID>BU02</UserID>
        <UserID>BU03</UserID>
        <UserID>BU04</UserID>
        <UserID>BU05</UserID>
      </BankModeUserNameArray>
      <BankBranchName>North Bank Branch</BankBranchName>
      <TimeZoneID>Eastern Standard Time</TimeZoneID>
      <Country>USA</Country>
      <ZIP>40508-1200</ZIP>
      <State>Kentucky</State>
      <City>Lexington</City>

```



```

        <Address1>749 West Short Street</Address1>
        <ServiceBranch>North Bank Service</ServiceBranch>
        <Region>KENTUCKY</Region>
        <UserDefined1>ATM Model #3</UserDefined1>
        <Description2>Serviced by Fred and John</Description2>
        <Description1>Truck #1</Description1>
        <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
        <CustomerID>North Bank</CustomerID>
        <IfDualMode>>false</IfDualMode>
        <SerialNumber>1000107</SerialNumber>
        <LockMode>B</LockMode>
        <LockName>Gen2Lock 1000107</LockName>
    </ActivateLockSerialRecord>
    <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_ACTIVATE>
<ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock mode activated successfully.</Description>
</ResultRecord>
<LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-10-19T12:32:58.56Z</StartDate>
    <LastUsedDate/>
    <CustomerNumber>424853</CustomerNumber>
    <LockMode>B</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>1</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>0</Seal>
    <PreviousSeal>0</PreviousSeal>
    <RouteSeal1>0</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1>Truck #1</Description1>
    <Description2>Serviced by Fred and John</Description2>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <UserDefined1>ATM Model #3</UserDefined1>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>>false</IfLastRoute3Issued>
    <User1ID1/>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>
    <RouteName3/>
    <DispatcherID1/>
    <DispatcherID2/>
    <DispatcherID3/>
    <OpenTime1/>
    <OpenTime2/>
    <OpenTime3/>
    <CloseTime1/>
    <CloseTime2/>

```

```

<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>5</BankOpenDelay>
<BankOpenWindow>5</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<BankModeUserNameArray>
  <UserID>BU01</UserID>
  <UserID>BU02</UserID>
  <UserID>BU03</UserID>
  <UserID>BU04</UserID>
  <UserID>BU05</UserID>
</BankModeUserNameArray>
</LockRecord>
</RESPONSE_LOCK_REMOTE_ACTIVATE>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran activate lock across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.

1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example activates **FLM** lock mode of lock named **Gen2 Swingbolt 1037890** though a remote CenTran lock agent persistent network connection: **LockSerialNumber:1037890**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/activate
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/activate
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "activateLockSerialRecordField" :
  {
    "aTMSerialNumberField" : "North Bank ATM 101" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : null ,
    "bankBranchNameField" : null ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : null ,
    "bankOpenWindowField" : null ,
    "cityField" : "Lexington" ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank " ,
    "description1Field" : null ,
    "description2Field" : null ,
    "description3Field" : null ,
    "description4Field" : null ,
    "ifDualModeField" : false ,
    "lockModeField" : 0 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "regionField" : "KENTUCKY" ,
    "serialNumberField" : "1037890" ,
    "serviceBranchField" : "North Bank Service Branch" ,
    "stateField" : "KY" ,
    "timeZoneIDField" : "Eastern Standard Time" ,
    "userDefined1Field" : null ,
    "userDefined2Field" : null ,
    "userDefined3Field" : null ,
    "userDefined4Field" : null ,
    "zIPField" : "40508"
  } ,
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "iPAddressField" : null
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "North Bank ATM 101" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,

```

```

"cityField" : "Lexington" ,
"closeSealLengthField" : "4" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "USA" ,
"customerIDField" : "North Bank" ,
"customerNumberField" : "934222" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "0" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "12651" ,
"lastUsedDateField" : null ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : null ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : null ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "0" ,
"previousUser1ID1Field" : "" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,

```

```

"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "0" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "12651" ,
"serialNumberField" : "001037890" ,
"serviceBranchField" : "North Bank Service Branch" ,
"startDateField" : "\/Date(1410459135345)\/" ,
"stateField" : "KY" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zIPField" : "40508"
} ,
"resultRecordField" :
{
  "descriptionField" :
  [
    "Lock mode activated successfully."
  ] ,
  "errorCodeField" : "RC_OK" ,
  "ifRetryValidField" : false ,
  "resultField" : 0
} ,
"tTRANSACTION_LOCK_REMOTE_ACTIVATEField" :
{
  "activateLockSerialRecordField" :
  {
    "aTMSerialNumberField" : "North Bank ATM 101" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : null ,
    "bankBranchNameField" : null ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : null ,
    "bankOpenWindowField" : null ,
    "cityField" : "Lexington" ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank " ,
    "description1Field" : null ,
    "description2Field" : null ,
    "description3Field" : null ,
    "description4Field" : null ,
    "ifDualModeField" : false ,
    "lockModeField" : 0 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "regionField" : "KENTUCKY" ,
    "serialNumberField" : "1037890" ,
    "serviceBranchField" : "North Bank Service Branch" ,
    "stateField" : "KY" ,
    "timeZoneIDField" : "Eastern Standard Time" ,
    "userDefined1Field" : null ,
    "userDefined2Field" : null ,
    "userDefined3Field" : null ,
    "userDefined4Field" : null ,
    "zIPField" : "40508"
  } ,
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : "CentranSS" ,
  "iPAddressField" : null
}
}

```

3.10.5 Web Service Remote Lock Management - Add Users To Bank Mode Lock Across Network

CenTran Programming Reference Manual

This transaction is used to add users to the bank mode of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to add users to.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to add users to. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to add users to.
- **Lock Mode** - This is the lock mode of the lock that you are going to add users to. This transaction currently only applies to bank mode locks.
- **Bank Mode User Name Array** - This is an array of user IDs specifying what bank mode lock users to add to the lock. These must be valid existing bank mode lock users in the Cencon database. They must be assigned to the same bank branch as the lock. If region control is active, they must be assigned to the same region as the lock. They must not already be assigned to the lock. Additionally, the bank mode lock user table must have sufficient space for the added users. The Cencon Gen 2 bank mode can have up to 100 users assigned to it.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/add-users
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/add-users
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_ADD_USERS>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock_1000107</LockName>
  <LockMode>B</LockMode>
  <BankModeUserNameArray>
    <UserID>BU06</UserID>
    <UserID>BU07</UserID>
    <UserID>BU1000</UserID>
  </BankModeUserNameArray>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_ADD_USERS>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_ADD_USERS>
  <TRANSACTION_LOCK_REMOTE_ADD_USERS>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
```

```

<CommunicationsMethod>Tcp</CommunicationsMethod>
<LockName>Gen2Lock 1000107</LockName>
<LockMode>B</LockMode>
<BankModeUserNameArray>
  <UserID>BU06</UserID>
  <UserID>BU07</UserID>
  <UserID>BU1000</UserID>
</BankModeUserNameArray>
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_ADD_USERS>
<ResultRecord>
  <Result>Success</Result>
  <ErrorCode>RC_OK</ErrorCode>
  <IfRetryValid>false</IfRetryValid>
  <Description>Users added to the lock successfully.</Description>
</ResultRecord>
<LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-10-19T12:32:58.56Z</StartDate>
  <LastUsedDate>2012-10-19T12:41:14.102Z</LastUsedDate>
  <CustomerNumber>424853</CustomerNumber>
  <LockMode>B</LockMode>
  <IfDualMode>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
  <AuditCount>1</AuditCount>
  <IfLockOpen>false</IfLockOpen>
  <IfForcedClosed>false</IfForcedClosed>
  <IfRoute1Issued>false</IfRoute1Issued>
  <IfRoute2Issued>false</IfRoute2Issued>
  <IfRoute3Issued>false</IfRoute3Issued>
  <IfNoAlarm>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
  <Seal>0</Seal>
  <PreviousSeal>0</PreviousSeal>
  <RouteSeal1>0</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>0</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName/>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1>Truck #1</Description1>
  <Description2>Serviced by Fred and John</Description2>
  <Description3/>
  <Description4/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1>ATM Model #3</UserDefined1>
  <UserDefined2/>
  <UserDefined3/>
  <UserDefined4/>
  <Region>KENTUCKY</Region>
  <IfLastRoute1Issued>false</IfLastRoute1Issued>
  <IfLastRoute2Issued>false</IfLastRoute2Issued>
  <IfLastRoute3Issued>false</IfLastRoute3Issued>
  <User1ID1/>
  <User1ID2/>
  <User1ID3/>
  <User2ID1/>
  <User2ID2/>
  <User2ID3/>
  <RouteName1/>
  <RouteName2/>
  <RouteName3/>
  <DispatcherID1/>
  <DispatcherID2/>
  <DispatcherID3/>
  <OpenTime1/>
  <OpenTime2/>
  <OpenTime3/>
  <CloseTime1/>
  <CloseTime2/>
  <CloseTime3/>
  <IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
  <IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
  <IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
  <PreviousUser1ID1/>

```

```

<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>5</BankOpenDelay>
<BankOpenWindow>5</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<BankModeUserNameArray>
  <UserID>BU01</UserID>
  <UserID>BU02</UserID>
  <UserID>BU03</UserID>
  <UserID>BU04</UserID>
  <UserID>BU05</UserID>
  <UserID>BU06</UserID>
  <UserID>BU07</UserID>
  <UserID>BU1000</UserID>
</BankModeUserNameArray>
</LockRecord>
</RESPONSE_LOCK_REMOTE_ADD_USERS>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran add users to bank mode lock across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.

1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example adds bank mode users to the **Bank** mode of lock named **Gen2 Swingbolt 1037890** though a remote CenTran lock agent persistent network connection: **LockSerialNumber:1037890**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/add-users
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/add-users
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "bankModeUserNameArrayField" :
  [
    "BU000001" ,
    "BU000002" ,
    "BU000003" ,
    "BU000004" ,
    "BU000005"
  ] ,
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "ipAddressField" : null ,
  "lockModeField" : 2 ,
  "lockNameField" : "Gen2 Swingbolt 1037890"
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "North Bank Branch" ,
    "bankModeUserNameArrayField" :
    [
      "BU01" ,
      "BU03" ,
      "BU04" ,
      "BU05" ,
      "BU06" ,
      "Bank SHA Key 10001" ,
      "Bank SHA Key 10002" ,
      "Bank SHA Key 10003" ,
      "Bank SHA Key 10004" ,
      "Bank SHA 10005" ,
      "BU000001" ,
      "BU000002" ,
      "BU000003" ,
      "BU000004" ,
      "BU000005" ,
      "BU000006" ,
      "BU000007" ,
      "BU000008" ,
      "BU000009" ,
      "BU000010" ,
      "BU000011" ,
    ]
  }
}
```

```

"BU000012" ,
"BU000013" ,
"BU000014" ,
"BU000015" ,
"BU000016" ,
"BU000017" ,
"BU000018" ,
"BU000019" ,
"BU000020" ,
"BU000021" ,
"BU000022" ,
"BU000023" ,
"BU000024" ,
"BU000025" ,
"BU000026" ,
"BU000027" ,
"BU000028" ,
"BU000029" ,
"BU000030" ,
"BU000031" ,
"BU000032" ,
"BU000033" ,
"BU000034" ,
"BU000035" ,
"BU000036" ,
"BU000037" ,
"BU000038" ,
"BU000039" ,
"BU000040" ,
"BU000041" ,
"BU000042" ,
"BU000043" ,
"BU000044" ,
"BU000045" ,
"BU000046" ,
"BU000047" ,
"BU000048" ,
"BU000049" ,
"BU000050" ,
"BU000051" ,
"BU000052" ,
"BU000053" ,
"BU000054" ,
"BU000055" ,
"BU000056" ,
"BU000057" ,
"BU000058" ,
"BU000059" ,
"BU000060" ,
"BU000061" ,
"BU000062" ,
"BU000063" ,
"BU000064" ,
"BU000065" ,
"BU000066" ,
"BU000067" ,
"BU000068" ,
"BU000069" ,
"BU000070" ,
"BU000071" ,
"BU000072" ,
"BU000073" ,
"BU000074" ,
"BU000075" ,
"BU000076" ,
"BU000077" ,
"BU000078" ,
"BU000079" ,
"BU000080" ,
"BU000081" ,
"BU000082" ,
"BU000083" ,
"BU000084" ,
"BU000085" ,
"BU000086"
] ,
"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "" ,
"closeSealLengthField" : "0" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "National City Bank" ,
"customerNumberField" : "775608" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,

```



```

"dispatcherID1Field" : "" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "0" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\Date(1410460670289)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "10.108.6.104" ,
"networkPortField" : "35005" ,
"openTime1Field" : null ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : null ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "0" ,
"previousUser1ID1Field" : "" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "0" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "0" ,
"serialNumberField" : "001037890" ,
"serviceBranchField" : "" ,
"startDateField" : "\Date(1393346968533)\" ,
"stateField" : "" ,
"timeZoneIDField" : "Eastern Standard Time" ,

```

```

        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zipField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Users added to the lock successfully."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_LOCK_REMOTE_ADD_USERSField" :
    {
        "bankModeUserNameArrayField" :
        [
            "BU000001" ,
            "BU000002" ,
            "BU000003" ,
            "BU000004" ,
            "BU000005"
        ] ,
        "communicationsIDField" : "LockSerialNumber:1037890" ,
        "communicationsMethodField" : 1 ,
        "dispatcherIDField" : "CentranSS" ,
        "ipAddressField" : null ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1037890"
    }
}

```

3.10.6 Web Service Remote Lock Management - Delete Users From Bank Mode Lock Across Network

CenTran Programming Reference Manual

This transaction is used to delete users from the bank mode of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to delete users from.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to delete users from. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to delete users from.
- **Lock Mode** - This is the lock mode of the lock that you are going to delete users from. This transaction currently only applies to bank mode locks.
- **Bank Mode User Name Array** - This is an array of user IDs specifying what bank mode lock users to delete from the lock. These must be valid existing bank mode lock users in the Cencon database. They must be assigned to the lock. Additionally, the Cencon Gen 2 lock is required to have two bank mode users set up. It is not permitted to delete the last two users from the Cencon Gen 2 lock bank mode.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/delete-users
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/delete-users
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_DELETE_USERS>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock_1000107</LockName>
  <LockMode>B</LockMode>
  <BankModeUserNameArray>
    <UserID>BU02</UserID>
    <UserID>BU03</UserID>
    <UserID>BU04</UserID>
  </BankModeUserNameArray>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_DELETE_USERS>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_DELETE_USERS>
  <TRANSACTION_LOCK_REMOTE_DELETE_USERS>
    <IPAddress>10.108.6.121:35005</IPAddress>
```

```

<CommunicationsID/>
<CommunicationsMethod>Tcp</CommunicationsMethod>
<LockName>Gen2Lock 1000107</LockName>
<LockMode>B</LockMode>
<BankModeUserNameArray>
  <UserID>BU02</UserID>
  <UserID>BU03</UserID>
  <UserID>BU04</UserID>
</BankModeUserNameArray>
<DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_DELETE_USERS>
<ResultRecord>
  <Result>Success</Result>
  <ErrorCode>RC_OK</ErrorCode>
  <IfRetryValid>>false</IfRetryValid>
  <Description>Users removed from the lock successfully.</Description>
</ResultRecord>
<LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-10-19T12:32:58.56Z</StartDate>
  <LastUsedDate>2012-10-19T12:44:12.595Z</LastUsedDate>
  <CustomerNumber>424853</CustomerNumber>
  <LockMode>B</LockMode>
  <IfDualMode>>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
  <AuditCount>1</AuditCount>
  <IfLockOpen>>false</IfLockOpen>
  <IfForcedClosed>>false</IfForcedClosed>
  <IfRoute1Issued>>false</IfRoute1Issued>
  <IfRoute2Issued>>false</IfRoute2Issued>
  <IfRoute3Issued>>false</IfRoute3Issued>
  <IfNoAlarm>>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
  <Seal>0</Seal>
  <PreviousSeal>0</PreviousSeal>
  <RouteSeal1>0</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>0</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName/>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1>Truck #1</Description1>
  <Description2>Serviced by Fred and John</Description2>
  <Description3/>
  <Description4/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1>ATM Model #3</UserDefined1>
  <UserDefined2/>
  <UserDefined3/>
  <UserDefined4/>
  <Region>KENTUCKY</Region>
  <IfLastRoute1Issued>>false</IfLastRoute1Issued>
  <IfLastRoute2Issued>>false</IfLastRoute2Issued>
  <IfLastRoute3Issued>>false</IfLastRoute3Issued>
  <User1ID1/>
  <User1ID2/>
  <User1ID3/>
  <User2ID1/>
  <User2ID2/>
  <User2ID3/>
  <RouteName1/>
  <RouteName2/>
  <RouteName3/>
  <DispatcherID1/>
  <DispatcherID2/>
  <DispatcherID3/>
  <OpenTime1/>
  <OpenTime2/>
  <OpenTime3/>
  <CloseTime1/>
  <CloseTime2/>
  <CloseTime3/>
  <IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
  <IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
  <IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>

```

```

<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>5</BankOpenDelay>
<BankOpenWindow>5</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<BankModeUserNameArray>
  <UserID>BU01</UserID>
  <UserID>BU05</UserID>
  <UserID>BU06</UserID>
  <UserID>BU07</UserID>
  <UserID>BU1000</UserID>
</BankModeUserNameArray>
</LockRecord>
</RESPONSE_LOCK_REMOTE_DELETE_USERS>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran delete users from bank mode lock across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example deletes bank mode users from the **Bank** mode of lock named **Gen2 Swingbolt 1037890** though a remote CenTran lock agent persistent network connection: **LockSerialNumber:1037890**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/delete-users
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/delete-users
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "bankModeUserNameArrayField" :
  [
    "BU000001" ,
    "BU000002" ,
    "BU000003" ,
    "BU000004" ,
    "BU000005"
  ] ,
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "IPAddressField" : null ,
  "lockModeField" : 2 ,
  "lockNameField" : "Gen2 Swingbolt 1037890"
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "North Bank Branch" ,
    "bankModeUserNameArrayField" :
    [
      "BU01" ,
      "BU03" ,
      "BU04" ,
      "BU05" ,
      "BU06" ,
      "Bank SHA Key 10001" ,
      "Bank SHA Key 10002" ,
      "Bank SHA Key 10003" ,
      "Bank SHA Key 10004" ,
      "Bank SHA 10005" ,
      "BU000006" ,
      "BU000007" ,
      "BU000008" ,
      "BU000009" ,
      "BU000010" ,
      "BU000011" ,
      "BU000012" ,
      "BU000013" ,
      "BU000014" ,
      "BU000015" ,
      "BU000016" ,
      "BU000017" ,
      "BU000018" ,
      "BU000019" ,
      "BU000020" ,
      "BU000021" ,
    ]
  }
}
```

```

"BU000022" ,
"BU000023" ,
"BU000024" ,
"BU000025" ,
"BU000026" ,
"BU000027" ,
"BU000028" ,
"BU000029" ,
"BU000030" ,
"BU000031" ,
"BU000032" ,
"BU000033" ,
"BU000034" ,
"BU000035" ,
"BU000036" ,
"BU000037" ,
"BU000038" ,
"BU000039" ,
"BU000040" ,
"BU000041" ,
"BU000042" ,
"BU000043" ,
"BU000044" ,
"BU000045" ,
"BU000046" ,
"BU000047" ,
"BU000048" ,
"BU000049" ,
"BU000050" ,
"BU000051" ,
"BU000052" ,
"BU000053" ,
"BU000054" ,
"BU000055" ,
"BU000056" ,
"BU000057" ,
"BU000058" ,
"BU000059" ,
"BU000060" ,
"BU000061" ,
"BU000062" ,
"BU000063" ,
"BU000064" ,
"BU000065" ,
"BU000066" ,
"BU000067" ,
"BU000068" ,
"BU000069" ,
"BU000070" ,
"BU000071" ,
"BU000072" ,
"BU000073" ,
"BU000074" ,
"BU000075" ,
"BU000076" ,
"BU000077" ,
"BU000078" ,
"BU000079" ,
"BU000080" ,
"BU000081" ,
"BU000082" ,
"BU000083" ,
"BU000084" ,
"BU000085" ,
"BU000086"
] ,
"bankOpenDelayField" : "0" ,
"bankOpenWindowField" : "0" ,
"cityField" : "" ,
"closeSealLengthField" : "0" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "National City Bank" ,
"customerNumberField" : "775608" ,
"description1Field" : "" ,
"description2Field" : "" ,
"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,

```

```

"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "0" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\Date(1410460164936)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "10.108.6.104" ,
"networkPortField" : "35005" ,
"openTime1Field" : null ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : null ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "0" ,
"previousUser1ID1Field" : "" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "0" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "0" ,
"serialNumberField" : "001037890" ,
"serviceBranchField" : "" ,
"startDateField" : "\Date(1393346968533)\" ,
"stateField" : "" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,

```



```

        "userDefined4Field" : "" ,
        "zipField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Users removed from the lock successfully."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_LOCK_REMOTE_DELETE_USERSField" :
    {
        "bankModeUserNameArrayField" :
        [
            "BU000001" ,
            "BU000002" ,
            "BU000003" ,
            "BU000004" ,
            "BU000005"
        ] ,
        "communicationsIDField" : "LockSerialNumber:1037890" ,
        "communicationsMethodField" : 1 ,
        "dispatcherIDField" : "CentranSS" ,
        "ipAddressField" : null ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1037890"
    }
}

```

3.10.7 Web Service Remote Lock Management - Shelf Lock Across Network

CenTran Programming Reference Manual

This transaction is used to shelve a mode of a Cencon Gen 2 or higher lock that is connected to a network IP address. This transaction only shelves the specified lock mode. If other modes of the lock are active, they will not be affected by this transaction and will remain active. If all three modes of the lock are active, you will have to call this transaction three times to completely shelve all modes of the lock.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to shelve.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to shelve. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to shelve.
- **Lock Mode** - This is the lock mode of the lock that you are going to shelve.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Note

If the Cencon configuration option to require a change key be present in the lock for remote shelve is set, you will not be able to remotely shelve the lock across a remote connection without first having someone present to open the lock and insert a change key. In the case of the Cencon Gen 2 swing bolt lock, you can alternatively open the lock and enter #50 at the lock to allow remote administration of the lock. Refer to the Cencon application Change Configuration Settings dialog to set this configuration option in the Cencon database.

The error code **RC_ERR_SHELVE_LOCK_SERIAL_CHANGE_KEY_NOT_PRESENT** will be returned by CenTran if this error occurs.

Transaction information returned:

Success:

- Result record indicating success
- Shelved Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/shelve
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/shelve
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_SHELVE>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_SHELVE>
```

Output Transaction:

```

<RESPONSE LOCK_REMOTE_SHELVES>
  <TRANSACTION_LOCK_REMOTE_SHELVES>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>B</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_SHELVES>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
    <Description>Lock mode shelved successfully.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>D</RecordType>
    <StartDate>2012-10-19T12:32:58.56Z</StartDate>
    <LastUsedDate>2012-10-19T12:53:11.513Z</LastUsedDate>
    <CustomerNumber>424853</CustomerNumber>
    <LockMode>B</LockMode>
    <IfDualMode>>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>1</AuditCount>
    <IfLockOpen>>false</IfLockOpen>
    <IfForcedClosed>>false</IfForcedClosed>
    <IfRoute1Issued>>false</IfRoute1Issued>
    <IfRoute2Issued>>false</IfRoute2Issued>
    <IfRoute3Issued>>false</IfRoute3Issued>
    <IfNoAlarm>>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>>false</IfActivationCall>
    <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
    <Seal>0</Seal>
    <PreviousSeal>0</PreviousSeal>
    <RouteSeal1>0</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1>Truck #1</Description1>
    <Description2>Serviced by Fred and John</Description2>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <UserDefined1>ATM Model #3</UserDefined1>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>>false</IfLastRoute3Issued>
    <User1ID1/>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>
    <RouteName3/>
    <DispatcherID1/>
    <DispatcherID2/>
    <DispatcherID3/>
    <OpenTime1/>
    <OpenTime2/>
    <OpenTime3/>
    <CloseTime1/>
    <CloseTime2/>
    <CloseTime3/>
    <IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
    <IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
    <IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
    <PreviousUser1ID1/>

```

```

<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>5</BankOpenDelay>
<BankOpenWindow>5</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Central Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</RESPONSE_LOCK_REMOTE_SHELVES>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This field is used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran shelf lock across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example shelves **FLM** lock mode of lock named **Gen2 Swingbolt 1037890** though a remote CenTran lock agent persistent network connection: **LockSerialNumber:1037890**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/shelve
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/shelve
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "ipAddressField" : null ,
  "lockModeField" : 0 ,
  "lockNameField" : "Gen2 Swingbolt 1037890"
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "8" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : "\/Date(1409161010390)\/" ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "839474" ,
    "description1Field" : "" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "CentranSS" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : "" ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : false ,
    "ifForcedClosedField" : false ,
    "ifLastRoute1IssuedField" : false ,
    "ifLastRoute2IssuedField" : false ,
    "ifLastRoute3IssuedField" : false ,
    "ifLegacyImportField" : false ,
    "ifLockOpenField" : false ,
    "ifNoAlarmField" : false ,
    "ifPreviousRoute1IssuedField" : false ,
    "ifPreviousRoute2IssuedField" : false ,
    "ifPreviousRoute3IssuedField" : false ,
    "ifRoute1IssuedField" : false ,
    "ifRoute2IssuedField" : false ,
    "ifRoute3IssuedField" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifUnassignedOpenCallField" : false ,
    "issuedComboUser1Seq1Field" : "828097" ,

```

```

"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "301" ,
"lastUsedDateField" : "\Date(1409161010390)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1408990355833)\" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : "\Date(1408979682850)\" ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "815640" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : "\Date(1408979359863)\" ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "25856" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "25856" ,
"previousUser1ID1Field" : "FLM SHA Key 6" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 0 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "9775" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "9775" ,
"serialNumberField" : "001037890" ,
"serviceBranchField" : "" ,
"startDateField" : "\Date(1393346881577)\" ,
"stateField" : "" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "FLM SHA Key 4" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zipField" : ""
} ,
"resultRecordField" :
{
    "descriptionField" :
    [
        "Lock mode shelved successfully."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"TRANSACTION_LOCK_REMOTE_SHELVEField" :
{
    "communicationsIDField" : "LockSerialNumber:1037890" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "ipAddressField" : null ,

```

```
        "lockModeField" : 0 ,  
        "lockNameField" : "Gen2 Swingbolt 1037890"  
    }  
}
```

3.10.8 Web Service Remote Lock Management - Set Lock Time Across Network

CenTran Programming Reference Manual

This transaction is used to set lock time and time zone daylight savings time transition table of a Cencon Gen 2 or higher lock that is connected to a network IP address. This transaction only sets the daylight savings time transition table for the specified lock mode. If other modes of the lock are active and you want to set the daylight savings time transition table for them as well, you will need to call this transaction for them also.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to set lock time and time zone daylight savings time transition table.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to set lock time and time zone daylight savings time transition table. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to set lock time and time zone daylight savings time transition table.
- **Lock Mode** - This is the lock mode of the lock that you are going to set lock time and time zone daylight savings time transition table.
- **Time Zone ID** - This is a 64 character field to set the time zone ID for the lock. This field can be left blank. If this field is populated, the time zone ID must exactly match an operating system time zone ID, or an error will occur. If this field is left blank, the CenTran server local time zone will automatically be used. This field is used to identify the time zone ID for the lock. The lock time zone ID is used to generate the daylight savings time transition table for the lock when the lock time is set. It is used for the lock to determine local time depending on the current daylight savings time offset. This affects lock user time windows, if any, in relation to the current local time. The daylight savings time transition table is initialized by lock mode, so it can be different for each lock mode. The lock daylight savings time transition table covers a period of 20 years. It is updated whenever the lock time is set. The lock daylight savings time transition table is generated from time zone information from the operating system, so if the operating system is out of date, the daylight savings time settings may be affected.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/set-time
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/set-time
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_SET_TIME>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <TimeZoneID>Central Standard Time</TimeZoneID>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_SET_TIME>
```


Output Transaction:

```
<RESPONSE LOCK_REMOTE_SET_TIME>
  <TRANSACTION_LOCK_REMOTE_SET_TIME>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>B</LockMode>
    <TimeZoneID>Central Standard Time</TimeZoneID>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_SET_TIME>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock clock and daylight savings time table set successfully.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2Lock 1000107</LockName>
    <RecordType>A</RecordType>
    <StartDate>2012-10-19T12:32:58.56Z</StartDate>
    <LastUsedDate>2012-10-19T12:53:11.513Z</LastUsedDate>
    <CustomerNumber>424853</CustomerNumber>
    <LockMode>B</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>001000107</SerialNumber>
    <AuditCount>1</AuditCount>
    <IfLockOpen>false</IfLockOpen>
    <IfForcedClosed>false</IfForcedClosed>
    <IfRoute1Issued>false</IfRoute1Issued>
    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
    <Seal>0</Seal>
    <PreviousSeal>0</PreviousSeal>
    <RouteSeal1>0</RouteSeal1>
    <RouteSeal2>0</RouteSeal2>
    <RouteSeal3>0</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1>Truck #1</Description1>
    <Description2>Serviced by Fred and John</Description2>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
    <UserDefined1>ATM Model #3</UserDefined1>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>false</IfLastRoute1Issued>
    <IfLastRoute2Issued>false</IfLastRoute2Issued>
    <IfLastRoute3Issued>false</IfLastRoute3Issued>
    <User1ID1/>
    <User1ID2/>
    <User1ID3/>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
    <RouteName1/>
    <RouteName2/>
    <RouteName3/>
    <DispatcherID1/>
    <DispatcherID2/>
    <DispatcherID3/>
    <OpenTime1/>
    <OpenTime2/>
    <OpenTime3/>
    <CloseTime1/>
    <CloseTime2/>
    <CloseTime3/>
    <IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
```

```

<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>5</BankOpenDelay>
<BankOpenWindow>5</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Central Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<BankModeUserNameArray>
  <UserID>BU01</UserID>
  <UserID>BU05</UserID>
  <UserID>BU06</UserID>
  <UserID>BU07</UserID>
  <UserID>BU1000</UserID>
</BankModeUserNameArray>
</LockRecord>
</RESPONSE_LOCK_REMOTE_SET_TIME>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran set lock time across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.

2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example sets the time and daylight savings time table for **FLM** mode of lock named **Gen2 Swingbolt 1037890** though a remote CenTran lock agent persistent network connection: **LockSerialNumber:1037890**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/set-time
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/set-time
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "ipAddressField" : null ,
  "lockNameAndModeField" :
  {
    "lockModeField" : 0 ,
    "lockNameField" : "Gen2 Swingbolt 1037890"
  } ,
  "timeZoneIDField" : "Eastern Standard Time"
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "atMSerialNumberField" : "North Bank ATM 101" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "934222" ,
    "description1Field" : "" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : "" ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : false ,
    "ifForcedClosedField" : false ,
    "ifLastRouteIssuedField" : false ,
  }
}
```

```

        "ifLastRoute2IssuedField" : false ,
        "ifLastRoute3IssuedField" : false ,
        "ifLegacyImportField" : false ,
        "ifLockOpenField" : false ,
        "ifNoAlarmField" : false ,
        "ifPreviousRoute1IssuedField" : false ,
        "ifPreviousRoute2IssuedField" : false ,
        "ifPreviousRoute3IssuedField" : false ,
        "ifRoute1IssuedField" : false ,
        "ifRoute2IssuedField" : false ,
        "ifRoute3IssuedField" : false ,
        "ifSecondLineMaintenanceCallField" : false ,
        "ifUnassignedOpenCallField" : false ,
        "issuedComboUser1Seq1Field" : "0" ,
        "issuedComboUser1Seq2Field" : "0" ,
        "issuedComboUser1Seq3Field" : "0" ,
        "issuedComboUser2Seq1Field" : "0" ,
        "issuedComboUser2Seq2Field" : "0" ,
        "issuedComboUser2Seq3Field" : "0" ,
        "keyCloseSealField" : "12651" ,
        "lastUsedDateField" : null ,
        "lockActivationStatusField" : "gen2" ,
        "lockDispatchStatusField" : "" ,
        "lockHardwareModelField" : "" ,
        "lockModeField" : 0 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "0.0.0.0" ,
        "networkPortField" : "0" ,
        "openTime1Field" : null ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : null ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "0" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : null ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "0" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "0" ,
        "previousUser1ID1Field" : "" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "0" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "12651" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "North Bank Service Branch" ,
        "startDateField" : "\Date(1410459135347)\\" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zipField" : "40508"
    } ,
    "resultRecordField" :
    {

```

```

        "descriptionField" :
        [
            "Lock clock and daylight savings time table set successfully."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_LOCK_REMOTE_SET_TIMEField" :
    {
        "communicationsIDField" : "LockSerialNumber:1037890" ,
        "communicationsMethodField" : 1 ,
        "dispatcherIDField" : "CentranSS" ,
        "iPAddressField" : null ,
        "lockNameAndModeField" :
        {
            "lockModeField" : 0 ,
            "lockNameField" : "Gen2 Swingbolt 1037890"
        } ,
        "timeZoneIDField" : "Eastern Standard Time"
    }
}

```

3.10.9 Web Service Remote Lock Management - Set Lock Single Dual Access Across Network

CenTran Programming Reference Manual

This transaction is used to set single or dual access of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to set single or dual access.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to set single or dual access. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to set single or dual access.
- **Lock Mode** - This is the lock mode of the lock that you are going to set single or dual access.
- **If Dual Mode** - This is a flag indicating that the lock is to be set to dual mode. If this flag is 1 or true, then the lock will be set to dual user access. If this flag is 0 or false, then the lock will be set to single user access.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/set-access
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/set-access
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_SET_SINGLE_DUAL_ACCESS>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <IfDualMode>true</IfDualMode>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_SET_SINGLE_DUAL_ACCESS>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_SET_SINGLE_DUAL_ACCESS>
  <TRANSACTION_LOCK_REMOTE_SET_SINGLE_DUAL_ACCESS>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>F</LockMode>
    <IfDualMode>true</IfDualMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_SET_SINGLE_DUAL_ACCESS>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
```

```

<IfRetryValid>false</IfRetryValid>
<Description>Lock dual user access set successfully.</Description>
</ResultRecord>
<LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-10-18T19:42:49.54Z</StartDate>
  <LastUsedDate/>
  <CustomerNumber>964592</CustomerNumber>
  <LockMode>F</LockMode>
  <IfDualMode>true</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
  <AuditCount>1</AuditCount>
  <IfLockOpen>false</IfLockOpen>
  <IfForcedClosed>false</IfForcedClosed>
  <IfRoute1Issued>false</IfRoute1Issued>
  <IfRoute2Issued>false</IfRoute2Issued>
  <IfRoute3Issued>false</IfRoute3Issued>
  <IfNoAlarm>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
  <Seal>21260</Seal>
  <PreviousSeal>0</PreviousSeal>
  <RouteSeal1>0</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>0</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName/>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1/>
  <Description2/>
  <Description3/>
  <Description4/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1/>
  <UserDefined2/>
  <UserDefined3/>
  <UserDefined4/>
  <Region>KENTUCKY</Region>
  <IfLastRoute1Issued>false</IfLastRoute1Issued>
  <IfLastRoute2Issued>false</IfLastRoute2Issued>
  <IfLastRoute3Issued>false</IfLastRoute3Issued>
  <User1ID1/>
  <User1ID2/>
  <User1ID3/>
  <User2ID1/>
  <User2ID2/>
  <User2ID3/>
  <RouteName1/>
  <RouteName2/>
  <RouteName3/>
  <DispatcherID1/>
  <DispatcherID2/>
  <DispatcherID3/>
  <OpenTime1/>
  <OpenTime2/>
  <OpenTime3/>
  <CloseTime1/>
  <CloseTime2/>
  <CloseTime3/>
  <IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
  <IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
  <IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
  <PreviousUser1ID1/>
  <PreviousUser1ID2/>
  <PreviousUser1ID3/>
  <PreviousUser2ID1/>
  <PreviousUser2ID2/>
  <PreviousUser2ID3/>
  <PreviousRouteName1/>
  <PreviousRouteName2/>
  <PreviousRouteName3/>
  <PreviousOpenTime1/>
  <PreviousOpenTime2/>
  <PreviousOpenTime3/>
  <PreviousCloseTime1/>
  <PreviousCloseTime2/>

```

```

<PreviousCloseTime3/>
<ServiceBranch>North Service Branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>21260</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</RESPONSE_LOCK_REMOTE_SET_SINGLE_DUAL_ACCESS>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran set lock single dual access across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example sets **FLM** mode to be dual user to open for a lock named **Gen2 Swingbolt 1037890** though a remote CenTran lock agent persistent network connection: **LockSerialNumber:1037890**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/set-access
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/set-access
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "ipAddressField" : null ,
  "ifDualModeField" : true ,
  "lockModeField" : 0 ,
  "lockNameField" : "Gen2 Swingbolt 1037890"
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "North Bank ATM 101" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "934222" ,
    "description1Field" : "" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : "" ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : true ,
    "ifForcedClosedField" : false ,
    "ifLastRoute1IssuedField" : false ,
    "ifLastRoute2IssuedField" : false ,
    "ifLastRoute3IssuedField" : false ,
    "ifLegacyImportField" : false ,
    "ifLockOpenField" : false ,
    "ifNoAlarmField" : false ,
    "ifPreviousRoute1IssuedField" : false ,
    "ifPreviousRoute2IssuedField" : false ,
    "ifPreviousRoute3IssuedField" : false ,
    "ifRoute1IssuedField" : false ,
    "ifRoute2IssuedField" : false ,
    "ifRoute3IssuedField" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifUnassignedOpenCallField" : false ,
    "issuedComboUser1Seq1Field" : "0" ,
    "issuedComboUser1Seq2Field" : "0" ,
    "issuedComboUser1Seq3Field" : "0" ,
    "issuedComboUser2Seq1Field" : "0" ,
    "issuedComboUser2Seq2Field" : "0" ,
    "issuedComboUser2Seq3Field" : "0" ,
    "keyCloseSealField" : "12651" ,
    "lastUsedDateField" : null ,
    "lockActivationStatusField" : "gen2" ,
    "lockDispatchStatusField" : "" ,
    "lockHardwareModelField" : ""
  }
}
```

```

        "lockModeField" : 0 ,
        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "0.0.0.0" ,
        "networkPortField" : "0" ,
        "openTime1Field" : null ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : null ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "0" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "0" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : null ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "0" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "0" ,
        "previousUser1ID1Field" : "" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "0" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "12651" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "North Bank Service Branch" ,
        "startDateField" : "\Date(1410459135347)\" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : "40508"
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock dual user access set successfully."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "transactionLockRemoteSetSingleDualAccessField" :
    {
        "communicationsIDField" : "LockSerialNumber:1037890" ,
        "communicationsMethodField" : 1 ,
        "dispatcherIDField" : "CentranSS" ,
        "iPAddressField" : null ,
        "ifDualModeField" : true ,
        "lockModeField" : 0 ,
        "lockNameField" : "Gen2 Swingbolt 1037890"
    }
}

```


3.10.10 Web Service Remote Lock Management - Set Lock Open Delay Window Across Network

CenTran Programming Reference Manual

This transaction is used to set the lock open delay and open time window of a bank mode Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to set the lock open delay and open time window.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to set the lock open delay and open time window. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to set the lock open delay and open time window.
- **Lock Mode** - This is the lock mode of the lock that you are going to set the lock open delay and open time window. This is currently always going to be bank mode. FLM and Route lock modes do not support an open delay and open time window.
- **Bank Open Delay** - This is an integer value representing the number of minutes of the bank mode open delay. If this value is set to 0 then the **Bank Open Window** must also be set to 0. If this value is set to some number of minutes greater than 0, then the **Bank Open Window** must also be set to some number of minutes greater than 0.

This delay will be applied to bank mode users attempting to open the lock. If the bank mode user enters a valid combination with a valid key and a bank mode open delay is set, then the lock will go into a wait state before allowing the same bank mode user to use their key again to open the lock. The **Bank Open Delay** defines how long in minutes the user has to wait before opening the lock.

- **Bank Open Window** - This is an integer value representing the number of minutes of the bank mode open window. If this value is set to 0 then the **Bank Open Delay** must also be set to 0. If this value is set to some number of minutes greater than 0, then the **Bank Open Delay** must also be set to some number of minutes greater than 0.

This open window will be applied to bank mode users attempting to open the lock. If the bank mode user enters a valid combination with a valid key and a bank mode open delay is set, then the lock will go into a wait state before allowing the same bank mode user to use their key again to open the lock. The **Bank Open Window** defines how long in minutes the user has to open the lock after the delay is complete.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/set-open-delay-window
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/set-open-delay-window
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_SET_OPEN_DELAY_WINDOW>
```

```
<IPAddress>10.108.6.96:35005</IPAddress>
<CommunicationsID/>
<CommunicationsMethod>Tcp</CommunicationsMethod>
<LockName>Gen2Lock 1000107</LockName>
<LockMode>B</LockMode>
<BankOpenDelay>6</BankOpenDelay>
<BankOpenWindow>3</BankOpenWindow>
<DispatcherID/>
</TRANSACTION_LOCK_REMOTE_SET_OPEN_DELAY_WINDOW>
```

Output Transaction:

```
<RESPONSE LOCK_REMOTE_SET_OPEN_DELAY_WINDOW>
<TRANSACTION_LOCK_REMOTE_SET_OPEN_DELAY_WINDOW>
  <IPAddress>10.108.6.96:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <BankOpenDelay>6</BankOpenDelay>
  <BankOpenWindow>3</BankOpenWindow>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_SET_OPEN_DELAY_WINDOW>
<ResultRecord>
  <Result>Success</Result>
  <ErrorCode>RC_OK</ErrorCode>
  <IfRetryValid>>false</IfRetryValid>
  <Description>Lock open delay and open window set successfully.</Description>
</ResultRecord>
<LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2013-01-28T18:07:35.6Z</StartDate>
  <LastUsedDate/>
  <CustomerNumber>877983</CustomerNumber>
  <LockMode>B</LockMode>
  <IfDualMode>>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
  <AuditCount>1</AuditCount>
  <IfLockOpen>>false</IfLockOpen>
  <IfForcedClosed>>false</IfForcedClosed>
  <IfRoute1Issued>>false</IfRoute1Issued>
  <IfRoute2Issued>>false</IfRoute2Issued>
  <IfRoute3Issued>>false</IfRoute3Issued>
  <IfNoAlarm>>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
  <Seal>0</Seal>
  <PreviousSeal>0</PreviousSeal>
  <RouteSeal1>0</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>0</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName/>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1>Truck #1</Description1>
  <Description2>Serviced by Fred and John</Description2>
  <Description3/>
  <Description4/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1>ATM Model #3</UserDefined1>
  <UserDefined2/>
  <UserDefined3/>
  <UserDefined4/>
  <Region>KENTUCKY</Region>
  <IfLastRoute1Issued>>false</IfLastRoute1Issued>
  <IfLastRoute2Issued>>false</IfLastRoute2Issued>
  <IfLastRoute3Issued>>false</IfLastRoute3Issued>
  <User1ID1/>
  <User1ID2/>
  <User1ID3/>
  <User2ID1/>
  <User2ID2/>
  <User2ID3/>
  <RouteName1/>
  <RouteName2/>
```

```

<RouteName3/>
<DispatcherID1/>
<DispatcherID2/>
<DispatcherID3/>
<OpenTime1/>
<OpenTime2/>
<OpenTime3/>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>6</BankOpenDelay>
<BankOpenWindow>3</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.96</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<BankModeUserNameArray>
  <UserID>BU01</UserID>
  <UserID>BU02</UserID>
  <UserID>BU03</UserID>
  <UserID>BU04</UserID>
  <UserID>BU05</UserID>
  <UserID>BU06</UserID>
</BankModeUserNameArray>
</LockRecord>
</RESPONSE_LOCK_REMOTE_SET_OPEN_DELAY_WINDOW>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran set lock open delay window across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.

2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example sets **Bank** mode open delay window for a lock named **Gen2 Swingbolt 1037890** though a remote Centran lock agent persistent network connection: **LockSerialNumber:1037890**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/set-open-delay-window
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/set-open-delay-window
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "bankOpenDelayField" : "5" ,
  "bankOpenWindowField" : "5" ,
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "iPAddressField" : null ,
  "lockModeField" : 2 ,
  "lockNameField" : "Gen2 Swingbolt 1037890"
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "North Bank Branch" ,
    "bankModeUserNameArrayField" :
    [
      "BU01" ,
      "BU03" ,
      "BU04" ,
      "BU05" ,
      "BU06" ,
      "Bank SHA Key 10001" ,
      "Bank SHA Key 10002" ,
      "Bank SHA Key 10003" ,
      "Bank SHA Key 10004" ,
      "Bank SHA 10005" ,
      "BU000001" ,
      "BU000002" ,
      "BU000003" ,
      "BU000004" ,
      "BU000005" ,
      "BU000006" ,
      "BU000007" ,
      "BU000008" ,
      "BU000009" ,
    ]
  }
}
```

"BU000010" ,
"BU000011" ,
"BU000012" ,
"BU000013" ,
"BU000014" ,
"BU000015" ,
"BU000016" ,
"BU000017" ,
"BU000018" ,
"BU000019" ,
"BU000020" ,
"BU000021" ,
"BU000022" ,
"BU000023" ,
"BU000024" ,
"BU000025" ,
"BU000026" ,
"BU000027" ,
"BU000028" ,
"BU000029" ,
"BU000030" ,
"BU000031" ,
"BU000032" ,
"BU000033" ,
"BU000034" ,
"BU000035" ,
"BU000036" ,
"BU000037" ,
"BU000038" ,
"BU000039" ,
"BU000040" ,
"BU000041" ,
"BU000042" ,
"BU000043" ,
"BU000044" ,
"BU000045" ,
"BU000046" ,
"BU000047" ,
"BU000048" ,
"BU000049" ,
"BU000050" ,
"BU000051" ,
"BU000052" ,
"BU000053" ,
"BU000054" ,
"BU000055" ,
"BU000056" ,
"BU000057" ,
"BU000058" ,
"BU000059" ,
"BU000060" ,
"BU000061" ,
"BU000062" ,
"BU000063" ,
"BU000064" ,
"BU000065" ,
"BU000066" ,
"BU000067" ,
"BU000068" ,
"BU000069" ,
"BU000070" ,
"BU000071" ,
"BU000072" ,
"BU000073" ,
"BU000074" ,
"BU000075" ,
"BU000076" ,
"BU000077" ,
"BU000078" ,
"BU000079" ,
"BU000080" ,
"BU000081" ,
"BU000082" ,
"BU000083" ,
"BU000084" ,
"BU000085" ,
"BU000086" ,

1 ,
"bankOpenDelayField" : "5" ,
"bankOpenWindowField" : "5" ,
"cityField" : "" ,
"closeSealLengthField" : "0" ,
"closeTime1Field" : null ,
"closeTime2Field" : null ,
"closeTime3Field" : null ,
"countryField" : "" ,
"customerIDField" : "National City Bank" ,
"customerNumberField" : "775608" ,
"description1Field" : "" ,
"description2Field" : "" ,


```

"description3Field" : "" ,
"description4Field" : "" ,
"dispatcherID1Field" : "" ,
"dispatcherID2Field" : "" ,
"dispatcherID3Field" : "" ,
"displayIssuedComboUser1Seq1Field" : "" ,
"displayIssuedComboUser1Seq2Field" : "" ,
"displayIssuedComboUser1Seq3Field" : "" ,
"displayIssuedComboUser2Seq1Field" : "" ,
"displayIssuedComboUser2Seq2Field" : "" ,
"displayIssuedComboUser2Seq3Field" : "" ,
"duressDateField" : null ,
"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : false ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "0" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "0" ,
"lastUsedDateField" : "\/Date(1410460670290)\/" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 2 ,
"lockNameField" : "Gen2 Swingbolt 1037890" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : null ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : null ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "0" ,
"previousUser1ID1Field" : "" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "0" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "0" ,
"serialNumberField" : "001037890" ,
"serviceBranchField" : "" ,
"startDateField" : "\/Date(1393346968533)\/" ,

```

```

        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock open delay and open window set successfully."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tRANSACTION_LOCK_REMOTE_SET_OPEN_DELAY_WINDOWField" :
    {
        "bankOpenDelayField" : "5" ,
        "bankOpenWindowField" : "5" ,
        "communicationsIDField" : "LockSerialNumber:1037890" ,
        "communicationsMethodField" : 1 ,
        "dispatcherIDField" : "CentranSS" ,
        "iPAddressField" : null ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1037890"
    }
}

```

3.10.11 Web Service Remote Lock Management - Resynchronize Lock Dispatching Across Network

CenTran Programming Reference Manual

This transaction is used to resynchronize dispatching of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to resynchronize dispatching.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to resynchronize dispatching. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to resynchronize dispatching.
- **Lock Mode** - This is the lock mode of the lock that you are going to resynchronize dispatching. This transaction currently only applies to FLM and Route mode locks.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/resynchronize-dispatching
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/resynchronize-dispatching
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_RESYNC_DISPATCHING>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>F</LockMode>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_RESYNC_DISPATCHING>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_RESYNC_DISPATCHING>
  <TRANSACTION_LOCK_REMOTE_RESYNC_DISPATCHING>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2Lock 1000107</LockName>
    <LockMode>F</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_RESYNC_DISPATCHING>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>>false</IfRetryValid>
```

```
<Description>Cencon database lock dispatching resynchronized with lock successfully.
</Description>
</ResultRecord>
<LockRecord>
  <LockName>Gen2Lock 1000107</LockName>
  <RecordType>A</RecordType>
  <StartDate>2012-10-18T19:42:49.54Z</StartDate>
  <LastUsedDate/>
  <CustomerNumber>964592</CustomerNumber>
  <LockMode>F</LockMode>
  <IfDualMode>>false</IfDualMode>
  <SerialNumber>001000107</SerialNumber>
  <AuditCount>1</AuditCount>
  <IfLockOpen>>false</IfLockOpen>
  <IfForcedClosed>>false</IfForcedClosed>
  <IfRoute1Issued>>false</IfRoute1Issued>
  <IfRoute2Issued>>false</IfRoute2Issued>
  <IfRoute3Issued>>false</IfRoute3Issued>
  <IfNoAlarm>>false</IfNoAlarm>
  <IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>>false</IfActivationCall>
  <IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
  <Seal>21260</Seal>
  <PreviousSeal>0</PreviousSeal>
  <RouteSeal1>0</RouteSeal1>
  <RouteSeal2>0</RouteSeal2>
  <RouteSeal3>0</RouteSeal3>
  <PreviousRouteSeal1>0</PreviousRouteSeal1>
  <PreviousRouteSeal2>0</PreviousRouteSeal2>
  <PreviousRouteSeal3>0</PreviousRouteSeal3>
  <OpenTries1>0</OpenTries1>
  <OpenTries2>0</OpenTries2>
  <OpenTries3>0</OpenTries3>
  <TransferReturnCode>0</TransferReturnCode>
  <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
  <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
  <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
  <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
  <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
  <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
  <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
  <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
  <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
  <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
  <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
  <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
  <GroupName/>
  <OriginalSerialNumber>000000</OriginalSerialNumber>
  <Description1/>
  <Description2/>
  <Description3/>
  <Description4/>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
  <UserDefined1/>
  <UserDefined2/>
  <UserDefined3/>
  <UserDefined4/>
  <Region>KENTUCKY</Region>
  <IfLastRoute1Issued>>false</IfLastRoute1Issued>
  <IfLastRoute2Issued>>false</IfLastRoute2Issued>
  <IfLastRoute3Issued>>false</IfLastRoute3Issued>
  <User1ID1/>
  <User1ID2/>
  <User1ID3/>
  <User2ID1/>
  <User2ID2/>
  <User2ID3/>
  <RouteName1/>
  <RouteName2/>
  <RouteName3/>
  <DispatcherID1/>
  <DispatcherID2/>
  <DispatcherID3/>
  <OpenTime1/>
  <OpenTime2/>
  <OpenTime3/>
  <CloseTime1/>
  <CloseTime2/>
  <CloseTime3/>
  <IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
  <IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
  <IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
  <PreviousUser1ID1/>
  <PreviousUser1ID2/>
  <PreviousUser1ID3/>
  <PreviousUser2ID1/>
  <PreviousUser2ID2/>
  <PreviousUser2ID3/>
  <PreviousRouteName1/>
  <PreviousRouteName2/>
  <PreviousRouteName3/>
  <PreviousOpenTime1/>
  <PreviousOpenTime2/>
  <PreviousOpenTime3/>
  <PreviousCloseTime1/>
  <PreviousCloseTime2/>
```

```

<PreviousCloseTime3/>
<ServiceBranch>North Service Branch</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>21260</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
</LockRecord>
</RESPONSE_LOCK_REMOTE_RESYNC_DISPATCHING>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran resynchronize lock mode dispatching across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example resynchronizes dispatching for **FLM** mode for a lock named **Gen2 Swingbolt 1037890** though a remote CenTran lock agent persistent network connection: **LockSerialNumber:1037890**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/resynchronize-dispatching
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/resynchronize-dispatching
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "ipAddressField" : null ,
  "lockModeField" : 0 ,
  "lockNameField" : "Gen2 Swingbolt 1037890"
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "North Bank ATM 101" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : "\/Date(1410467002773)\/" ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "934222" ,
    "description1Field" : "" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "MHG\\LSTALL" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : "" ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : true ,
    "ifForcedClosedField" : true ,
    "ifLastRoute1IssuedField" : false ,
    "ifLastRoute2IssuedField" : false ,
    "ifLastRoute3IssuedField" : false ,
    "ifLegacyImportField" : false ,
    "ifLockOpenField" : false ,
    "ifNoAlarmField" : false ,
    "ifPreviousRoute1IssuedField" : false ,
    "ifPreviousRoute2IssuedField" : false ,
    "ifPreviousRoute3IssuedField" : false ,
    "ifRoute1IssuedField" : false ,
    "ifRoute2IssuedField" : false ,
    "ifRoute3IssuedField" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifUnassignedOpenCallField" : false ,
    "issuedComboUser1Seq1Field" : "103245" ,
    "issuedComboUser1Seq2Field" : "0" ,
    "issuedComboUser1Seq3Field" : "0" ,
    "issuedComboUser2Seq1Field" : "563122" ,
    "issuedComboUser2Seq2Field" : "0" ,
    "issuedComboUser2Seq3Field" : "0" ,
    "keyCloseSealField" : "12651" ,
    "lastUsedDateField" : "\/Date(1410467002773)\/" ,
    "lockActivationStatusField" : "gen2" ,
    "lockDispatchStatusField" : "" ,
    "lockHardwareModelField" : "" ,
    "lockModeField" : 0 ,
  }
}
```

```

        "lockNameField" : "Gen2 Swingbolt 1037890" ,
        "lowBatteryDateField" : null ,
        "networkAddressField" : "0.0.0.0" ,
        "networkPortField" : "0" ,
        "openTime1Field" : "\Date(1410466994950)\" ,
        "openTime2Field" : null ,
        "openTime3Field" : null ,
        "openTries1Field" : "0" ,
        "openTries2Field" : "0" ,
        "openTries3Field" : "0" ,
        "originalSerialNumberField" : "000000" ,
        "previousCloseTime1Field" : "\Date(1410466980507)\" ,
        "previousCloseTime2Field" : null ,
        "previousCloseTime3Field" : null ,
        "previousComboUser1Seq1Field" : "506510" ,
        "previousComboUser1Seq2Field" : "0" ,
        "previousComboUser1Seq3Field" : "0" ,
        "previousComboUser2Seq1Field" : "498221" ,
        "previousComboUser2Seq2Field" : "0" ,
        "previousComboUser2Seq3Field" : "0" ,
        "previousOpenTime1Field" : "\Date(1410466965047)\" ,
        "previousOpenTime2Field" : null ,
        "previousOpenTime3Field" : null ,
        "previousRouteName1Field" : "" ,
        "previousRouteName2Field" : "" ,
        "previousRouteName3Field" : "" ,
        "previousRouteSeal1Field" : "16809" ,
        "previousRouteSeal2Field" : "0" ,
        "previousRouteSeal3Field" : "0" ,
        "previousSealField" : "16809" ,
        "previousUser1ID1Field" : "nf1" ,
        "previousUser1ID2Field" : "" ,
        "previousUser1ID3Field" : "" ,
        "previousUser2ID1Field" : "nf2" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "38667" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "12651" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "North Bank Service Branch" ,
        "startDateField" : "\Date(1410459135347)\" ,
        "stateField" : "KY" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "nf1" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "nf2" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zipField" : "40508"
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Cencon database lock dispatching resynchronized with lock successfully."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "TRANSACTION_LOCK_REMOTE_RESYNC_DISPATCHINGField" :
    {
        "communicationsIDField" : "LockSerialNumber:1037890" ,
        "communicationsMethodField" : 1 ,
        "dispatcherIDField" : "CentranSS" ,
        "ipAddressField" : null ,
        "lockModeField" : 0 ,
        "lockNameField" : "Gen2 Swingbolt 1037890"
    }
}

```


3.10.12 Web Service Remote Lock Management - Resynchronize Bank Mode Lock Users Across Network

CenTran Programming Reference Manual

This transaction is used to resynchronize users for bank mode of a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to resynchronize users.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to resynchronize users. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to resynchronize users.
- **Lock Mode** - This is the lock mode of the lock that you are going to resynchronize users. This transaction currently only applies to Bank mode locks.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record
- Array of bank mode lock user IDs that were added to the lock data in the Cencon database
- Array of bank mode lock user IDs that were removed from the lock data in the Cencon database
- Array of bank mode lock user IDs that failed to be added to the lock data in the Cencon database. This may be because a user assigned to the lock no longer exists in the database.
- Array of bank mode lock user IDs that failed to be removed from the lock data in the Cencon database. This should not normally occur, but may happen because of a database error.

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/resynchronize-users
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CentranService/rest/lock/resynchronize-users
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_RESYNC_USERS>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2Lock 1000107</LockName>
  <LockMode>B</LockMode>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_RESYNC_USERS>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_RESYNC_USERS>
  <TRANSACTION_LOCK_REMOTE_RESYNC_USERS>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2Lock 1000107</LockName>
```

```

        <LockMode>B</LockMode>
        <DispatcherID>CentranSS</DispatcherID>
    </TRANSACTION_LOCK_REMOTE_RESYNC_USERS>
    <ResultRecord>
        <Result>Success</Result>
        <ErrorCode>RC_OK</ErrorCode>
        <IfRetryValid>false</IfRetryValid>
        <Description>Cencon database bank users for lock resynchronized with lock successfully.
    </Description>
    </ResultRecord>
    <LockRecord>
        <LockName>Gen2Lock_1000107</LockName>
        <RecordType>A</RecordType>
        <StartDate>2012-10-19T12:32:58.56Z</StartDate>
        <LastUsedDate>2012-10-19T12:53:11.513Z</LastUsedDate>
        <CustomerNumber>424853</CustomerNumber>
        <LockMode>B</LockMode>
        <IfDualMode>false</IfDualMode>
        <SerialNumber>001000107</SerialNumber>
        <AuditCount>1</AuditCount>
        <IfLockOpen>false</IfLockOpen>
        <IfForcedClosed>false</IfForcedClosed>
        <IfRoute1Issued>false</IfRoute1Issued>
        <IfRoute2Issued>false</IfRoute2Issued>
        <IfRoute3Issued>false</IfRoute3Issued>
        <IfNoAlarm>false</IfNoAlarm>
        <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
        <IfActivationCall>false</IfActivationCall>
        <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
        <Seal>0</Seal>
        <PreviousSeal>0</PreviousSeal>
        <RouteSeal1>0</RouteSeal1>
        <RouteSeal2>0</RouteSeal2>
        <RouteSeal3>0</RouteSeal3>
        <PreviousRouteSeal1>0</PreviousRouteSeal1>
        <PreviousRouteSeal2>0</PreviousRouteSeal2>
        <PreviousRouteSeal3>0</PreviousRouteSeal3>
        <OpenTries1>0</OpenTries1>
        <OpenTries2>0</OpenTries2>
        <OpenTries3>0</OpenTries3>
        <TransferReturnCode>0</TransferReturnCode>
        <IssuedComboUser1Seq1>0</IssuedComboUser1Seq1>
        <IssuedComboUser1Seq2>0</IssuedComboUser1Seq2>
        <IssuedComboUser1Seq3>0</IssuedComboUser1Seq3>
        <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
        <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
        <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
        <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
        <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
        <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
        <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
        <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
        <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
        <GroupName/>
        <OriginalSerialNumber>000000</OriginalSerialNumber>
        <Description1>Truck #1</Description1>
        <Description2>Serviced by Fred and John</Description2>
        <Description3/>
        <Description4/>
        <CustomerID>North Bank</CustomerID>
        <ATMSerialNumber>Kaba Mas ATM 1</ATMSerialNumber>
        <UserDefined1>ATM Model #3</UserDefined1>
        <UserDefined2/>
        <UserDefined3/>
        <UserDefined4/>
        <Region>KENTUCKY</Region>
        <IfLastRoute1Issued>false</IfLastRoute1Issued>
        <IfLastRoute2Issued>false</IfLastRoute2Issued>
        <IfLastRoute3Issued>false</IfLastRoute3Issued>
        <User1ID1/>
        <User1ID2/>
        <User1ID3/>
        <User2ID1/>
        <User2ID2/>
        <User2ID3/>
        <RouteName1/>
        <RouteName2/>
        <RouteName3/>
        <DispatcherID1/>
        <DispatcherID2/>
        <DispatcherID3/>
        <OpenTime1/>
        <OpenTime2/>
        <OpenTime3/>
        <CloseTime1/>
        <CloseTime2/>
        <CloseTime3/>
        <IfPreviousRoute1Issued>false</IfPreviousRoute1Issued>
        <IfPreviousRoute2Issued>false</IfPreviousRoute2Issued>
        <IfPreviousRoute3Issued>false</IfPreviousRoute3Issued>
        <PreviousUser1ID1/>
        <PreviousUser1ID2/>
        <PreviousUser1ID3/>
        <PreviousUser2ID1/>
        <PreviousUser2ID2/>
        <PreviousUser2ID3/>
        <PreviousRouteName1/>

```

```

<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 West Short Street</Address1>
<Address2/>
<City>Lexington</City>
<State>Kentucky</State>
<ZIP>40508-1200</ZIP>
<Country>USA</Country>
<KeyCloseSeal>0</KeyCloseSeal>
<BankBranchName>North Bank Branch</BankBranchName>
<BankOpenDelay>5</BankOpenDelay>
<BankOpenWindow>5</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>false</IfLegacyImport>
<NetworkAddress>10.108.6.121</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<BankModeUserNameArray>
  <UserID>BU1000</UserID>
  <UserID>BU01</UserID>
  <UserID>BU07</UserID>
  <UserID>BU05</UserID>
  <UserID>BU06</UserID>
</BankModeUserNameArray>
</LockRecord>
<BankUsersAddedToDatabaseLock>
  <UserID>BU07</UserID>
  <UserID>BU06</UserID>
</BankUsersAddedToDatabaseLock>
<BankUsersRemovedFromDatabaseLock>
  <UserID>BU999999</UserID>
  <UserID>BU02</UserID>
</BankUsersRemovedFromDatabaseLock>
<BankUsersFailedAddToDatabaseLock/>
<BankUsersFailedRemoveFromDatabaseLock/>
</RESPONSE_LOCK_REMOTE_RESYNC_USERS>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran resynchronize bank mode lock users across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.

1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example resynchronizes assigned lock users for **Bank** mode for a lock named **Gen2 Swingbolt 1037890** though a remote CenTran lock agent persistent network connection: **LockSerialNumber:1037890**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/resynchronize-users
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CenTranServiceJSON/rest/lock/resynchronize-users
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "iPAddressField" : null ,
  "lockModeField" : 2 ,
  "lockNameField" : "Gen2 Swingbolt 1037890"
}
```

Example Output Transaction - JSON:

```
{
  "bankUsersAddedToDatabaseLockField" :
  [
    "BU000006" ,
    "BU000001" ,
    "BU000004" ,
    "BU000005" ,
    "BU000003" ,
    "BU000002" ,
    "BU000007"
  ] ,
  "bankUsersFailedAddToDatabaseLockField" :
  [
  ] ,
  "bankUsersFailedRemoveFromDatabaseLockField" :
  [
  ] ,
  "bankUsersRemovedFromDatabaseLockField" :
  [
    "BU000092" ,
    "BU000094" ,
    "BU000088" ,
    "BU000091" ,
    "BU000089" ,
    "BU000093"
  ] ,
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "" ,
    "address1Field" : "" ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "North Bank Branch" ,
    "bankModeUserNameArrayField" :
    [
      "BU000024" ,
      "BU000043" ,
      "BU000074" ,
      "BU000057" ,
    ]
  }
}
```

"BU000018" ,
"BU000084" ,
"BU000006" ,
"BU000058" ,
"BU000065" ,
"BU000022" ,
"BU000044" ,
"BU000001" ,
"BU000067" ,
"BU000014" ,
"BU000073" ,
"BU000085" ,
"BU000010" ,
"BU000040" ,
"BU000086" ,
"BU000028" ,
"BU000012" ,
"BU000026" ,
"BU000059" ,
"BU000075" ,
"BU000011" ,
"BU000063" ,
"BU000076" ,
"BU000038" ,
"BU000055" ,
"BU000042" ,
"BU000066" ,
"BU000004" ,
"BU000013" ,
"BU000005" ,
"BU000029" ,
"BU000003" ,
"BU000053" ,
"BU000060" ,
"BU000041" ,
"BU000008" ,
"BU000020" ,
"BU000083" ,
"BU000050" ,
"BU000033" ,
"Bank SHA 10005" ,
"BU000062" ,
"BU000025" ,
"BU000056" ,
"BU000077" ,
"BU000046" ,
"BU000031" ,
"BU000027" ,
"BU000021" ,
"BU000016" ,
"BU000002" ,
"BU000030" ,
"BU000079" ,
"BU000007" ,
"BU000049" ,
"BU000052" ,
"BU000081" ,
"BU000037" ,
"BU000036" ,
"Bank SHA Key 10002" ,
"BU000078" ,
"BU000051" ,
"Bank SHA Key 10003" ,
"BU000080" ,
"BU000072" ,
"BU000009" ,
"BU000032" ,
"BU000039" ,
"BU000047" ,
"BU000015" ,
"BU000017" ,
"BU000048" ,
"BU000069" ,
"BU000034" ,
"BU000023" ,
"BU000071" ,
"BU000082" ,
"BU000054" ,
"BU000068" ,
"BU000070" ,
"BU000064" ,
"BU000019" ,
"Bank SHA Key 10001" ,
"BU000061" ,
"BU000045" ,
"BU000035" ,
"Bank SHA Key 10004" ,
"BU01" ,
"BU03" ,
"BU04" ,

```

        "BU05" ,
        "BU06"
    ] ,
    "bankOpenDelayField" : "5" ,
    "bankOpenWindowField" : "5" ,
    "cityField" : "" ,
    "closeSealLengthField" : "0" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "" ,
    "customerIDField" : "National City Bank" ,
    "customerNumberField" : "775608" ,
    "description1Field" : "" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : "" ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : false ,
    "ifForcedClosedField" : false ,
    "ifLastRoute1IssuedField" : false ,
    "ifLastRoute2IssuedField" : false ,
    "ifLastRoute3IssuedField" : false ,
    "ifLegacyImportField" : false ,
    "ifLockOpenField" : false ,
    "ifNoAlarmField" : false ,
    "ifPreviousRoute1IssuedField" : false ,
    "ifPreviousRoute2IssuedField" : false ,
    "ifPreviousRoute3IssuedField" : false ,
    "ifRoute1IssuedField" : false ,
    "ifRoute2IssuedField" : false ,
    "ifRoute3IssuedField" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifUnassignedOpenCallField" : false ,
    "issuedComboUser1Seq1Field" : "0" ,
    "issuedComboUser1Seq2Field" : "0" ,
    "issuedComboUser1Seq3Field" : "0" ,
    "issuedComboUser2Seq1Field" : "0" ,
    "issuedComboUser2Seq2Field" : "0" ,
    "issuedComboUser2Seq3Field" : "0" ,
    "keyCloseSealField" : "0" ,
    "lastUsedDateField" : "\\Date(1410467879643)\\/" ,
    "lockActivationStatusField" : "gen2" ,
    "lockDispatchStatusField" : "" ,
    "lockHardwareModelField" : "" ,
    "lockModeField" : 2 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "lowBatteryDateField" : null ,
    "networkAddressField" : "0.0.0.0" ,
    "networkPortField" : "0" ,
    "openTime1Field" : null ,
    "openTime2Field" : null ,
    "openTime3Field" : null ,
    "openTries1Field" : "0" ,
    "openTries2Field" : "0" ,
    "openTries3Field" : "0" ,
    "originalSerialNumberField" : "000000" ,
    "previousCloseTime1Field" : null ,
    "previousCloseTime2Field" : null ,
    "previousCloseTime3Field" : null ,
    "previousComboUser1Seq1Field" : "0" ,
    "previousComboUser1Seq2Field" : "0" ,
    "previousComboUser1Seq3Field" : "0" ,
    "previousComboUser2Seq1Field" : "0" ,
    "previousComboUser2Seq2Field" : "0" ,
    "previousComboUser2Seq3Field" : "0" ,
    "previousOpenTime1Field" : null ,
    "previousOpenTime2Field" : null ,
    "previousOpenTime3Field" : null ,
    "previousRouteName1Field" : "" ,
    "previousRouteName2Field" : "" ,
    "previousRouteName3Field" : "" ,
    "previousRouteSeal1Field" : "0" ,
    "previousRouteSeal2Field" : "0" ,
    "previousRouteSeal3Field" : "0" ,
    "previousSealField" : "0" ,
    "previousUser1ID1Field" : "" ,
    "previousUser1ID2Field" : "" ,
    "previousUser1ID3Field" : ""

```

```

        "previousUser2ID1Field" : "" ,
        "previousUser2ID2Field" : "" ,
        "previousUser2ID3Field" : "" ,
        "recordTypeField" : 1 ,
        "regionField" : "KENTUCKY" ,
        "routeName1Field" : "" ,
        "routeName2Field" : "" ,
        "routeName3Field" : "" ,
        "routeSeal1Field" : "0" ,
        "routeSeal2Field" : "0" ,
        "routeSeal3Field" : "0" ,
        "sealField" : "0" ,
        "serialNumberField" : "001037890" ,
        "serviceBranchField" : "" ,
        "startDateField" : "\/Date(1393346968533)\/" ,
        "stateField" : "" ,
        "timeZoneIDField" : "Eastern Standard Time" ,
        "transferReturnCodeField" : "0" ,
        "user1ID1Field" : "" ,
        "user1ID2Field" : "" ,
        "user1ID3Field" : "" ,
        "user2ID1Field" : "" ,
        "user2ID2Field" : "" ,
        "user2ID3Field" : "" ,
        "userDefined1Field" : "" ,
        "userDefined2Field" : "" ,
        "userDefined3Field" : "" ,
        "userDefined4Field" : "" ,
        "zIPField" : ""
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Cencon database bank users for lock resynchronized with lock successfully."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_LOCK_REMOTE_RESYNC_USERSField" :
    {
        "communicationsIDField" : "LockSerialNumber:1037890" ,
        "communicationsMethodField" : 1 ,
        "dispatcherIDField" : "CentranSS" ,
        "iPAddressField" : null ,
        "lockModeField" : 2 ,
        "lockNameField" : "Gen2 Swingbolt 1037890"
    }
}

```

3.10.13 Web Service Remote Lock Management - Cancel Dispatch and Advance To Next Lock Mode Combination Across Network

CenTran Programming Reference Manual

This transaction is used to cancel the dispatch of a mode of a Cencon Gen 2 or higher lock that is connected to a network IP address. It does this by checking the status of the lock to determine if the dispatched user has reached the lock and opened it. If the user has opened and closed the lock, this transaction closes out the dispatch and returns that the user already opened the lock. If the user has not opened the lock, then the combination for that mode of the lock is advanced to the next combination at the lock, and the dispatch is force closed in the Cencon database.

If this transaction is used and the lock is dispatched on one or more route sequences, each call to this transaction will cancel the dispatch for the next route sequence. If the lock was dispatched on route sequence 1, 2, and 3, then the first call will cancel the dispatch for route sequence 1, the second call will cancel the dispatch for route sequence 2, and the third call will cancel the dispatch for route sequence 3. If a route sequence is skipped, such as sequences 2 and 3 are the only ones dispatched, then sequence 1 will be dispatched and closed to prevent it from being used and the combination for the lock mode will be advanced.

If this transaction is used without a dispatched user, then the combination of the mode of the lock is advanced at the lock and in the Cencon database.

If this transaction is used and the lock is currently open, then an error will be returned.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to cancel dispatch and advance combination.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to cancel dispatch and advance combination. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to cancel dispatch and advance combination.
- **Lock Mode** - This is the lock mode of the lock that you are going to cancel dispatch and advance combination.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Updated Lock record
- Lock status record
- Lock hardware status record
- Lock mode status record
- IfUserOpenedClosedLockDispatch flag - Indicates if the user has already opened and closed the dispatch to the lock.
- IfAdvancedToNextLockCombo - Indicates if the lock mode was advanced to it's next combination.
- IfCancelledDispatch - Indicates if a dispatch was canceled in the Cencon database.
- IfAffectedRouteSequence - Indicates if a route mode was affected for cancelling a dispatch.
- AffectedRouteSequence - Value of the route mode that was affected for cancelling a dispatch. If present, this could be a value from 1 to 3.
- IfDuressComboUsedOnOpen - If the user has already opened and closed the dispatch, this indicates if a duress combination was used.
- IfClockBatteryLowOrResetOnOpen - If the user has already opened and closed the dispatch, this indicates if the clock battery was low or reset upon lock being opened.
- LockLogRecord - If present, these are the lock log records found to be dispatched at the time of the transaction for the specified lock mode.
- CanceledLockLogRecord - If present, this is the lock log record closed out by the transaction.

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/cancel-dispatch
```


Example Input Transaction: (HTTP Post)

https://kml-3242.domain.local/CentranService/rest/lock/cancel-dispatch

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_CANCEL_DISPATCH>
  <IPAddress>10.108.6.108:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2 Swingbolt 1037890</LockName>
  <LockMode>R</LockMode>
  <DispatcherID>CentranSS</DispatcherID>
</TRANSACTION_LOCK_REMOTE_CANCEL_DISPATCH>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_CANCEL_DISPATCH>
  <TRANSACTION_LOCK_REMOTE_CANCEL_DISPATCH>
    <IPAddress>10.108.6.108:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2 Swingbolt 1037890</LockName>
    <LockMode>R</LockMode>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_CANCEL_DISPATCH>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock event evaluated from lock successfully.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2 Swingbolt 1037890</LockName>
    <RecordType>A</RecordType>
    <StartDate>2013-07-22T19:01:47.467Z</StartDate>
    <LastUsedDate>2013-08-15T17:37:47.437Z</LastUsedDate>
    <CustomerNumber>309538</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>001037890</SerialNumber>
    <AuditCount>78</AuditCount>
    <IfLockOpen>false</IfLockOpen>
    <IfForcedClosed>true</IfForcedClosed>
    <IfRoute1Issued>false</IfRoute1Issued>
    <IfRoute2Issued>false</IfRoute2Issued>
    <IfRoute3Issued>false</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
    <Seal>16476</Seal>
    <PreviousSeal>30124</PreviousSeal>
    <RouteSeal1>28698</RouteSeal1>
    <RouteSeal2>21329</RouteSeal2>
    <RouteSeal3>16476</RouteSeal3>
    <PreviousRouteSeal1>30124</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>335198</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>95738</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>19495</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1/>
    <Description2/>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber/>
    <UserDefined1/>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>true</IfLastRoute1Issued>
    <IfLastRoute2Issued>true</IfLastRoute2Issued>
    <IfLastRoute3Issued>true</IfLastRoute3Issued>
    <User1ID1>Route SHA Key 4</User1ID1>
    <User1ID2>Route SHA Key 4</User1ID2>
    <User1ID3>Route SHA Key 4</User1ID3>
```

```

<User2ID1/>
<User2ID2/>
<User2ID3/>
<RouteName1>TestRoute5</RouteName1>
<RouteName2>TestRoute5</RouteName2>
<RouteName3>TestRoute5</RouteName3>
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2>CentranSS</DispatcherID2>
<DispatcherID3>CentranSS</DispatcherID3>
<OpenTime1>2013-08-15T17:33:26.957Z</OpenTime1>
<OpenTime2>2013-08-15T17:33:27.097Z</OpenTime2>
<OpenTime3>2013-08-15T17:33:27.267Z</OpenTime3>
<CloseTime1>2013-08-15T17:35:26.907Z</CloseTime1>
<CloseTime2>2013-08-15T17:37:12.643Z</CloseTime2>
<CloseTime3>2013-08-15T17:37:47.437Z</CloseTime3>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch/>
<Address1/>
<Address2/>
<City/>
<State/>
<ZIP/>
<Country/>
<KeyCloseSeal>10545</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>10.108.6.108</NetworkAddress>
<NetworkPort>35005</NetworkPort>
<DisplayIssuedComboUser1Seq1/>
<DisplayIssuedComboUser1Seq2/>
<DisplayIssuedComboUser1Seq3/>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
<LockRemoteStatusRecord>
  <ProductFamily>2</ProductFamily>
  <ProductCode>8</ProductCode>
  <MajorVersion>2</MajorVersion>
  <MinorVersion>2</MinorVersion>
  <BuildVersion>1078</BuildVersion>
  <SerialNumber>001037890</SerialNumber>
  <IfDuressOpenInProgress>>false</IfDuressOpenInProgress>
  <IfDelayedOpenInProgress>>false</IfDelayedOpenInProgress>
  <IfBoltRetracted>>false</IfBoltRetracted>
  <IfShelvedOpenInProgress>>false</IfShelvedOpenInProgress>
  <IfLockOutInProgress>>false</IfLockOutInProgress>
  <IfBoltExtendedDoorOpen>>false</IfBoltExtendedDoorOpen>
  <IfRemoteDisable>>false</IfRemoteDisable>
  <LockFLMModeActivationStatus>ActivateSingleUser</LockFLMModeActivationStatus>
  <IfLockFLMModeActive>true</IfLockFLMModeActive>
  <LockRouteModeActivationStatus>ActivateSingleUser</LockRouteModeActivationStatus>
  <IfLockRouteModeActive>true</IfLockRouteModeActive>
  <LockBankModeActivationStatus>ActivateSingleUser</LockBankModeActivationStatus>
  <IfLockBankModeActive>true</IfLockBankModeActive>
  <LockOpeningOdometer>63</LockOpeningOdometer>
  <IfAuditStatusWrapped>>false</IfAuditStatusWrapped>
  <AuditEventCount>196</AuditEventCount>
  <AuditEventOdometer>196</AuditEventOdometer>
  <IfDoorSensorConnectedOnOpen>SensorNotConnectedOnOpen</IfDoorSensorConnectedOnOpen>
</IfBoltWorksSensorConnectedOnOpen>SensorNotConnectedOnOpen</IfBoltWorksSensorConnectedOnOpen>
<IfRemoteAdministrationEnabled>NotEnabled</IfRemoteAdministrationEnabled>
</LockRemoteStatusRecord>
<LockRemoteHardwareStatusRecord>
  <LockKeyReaderStatus>NoKeyPresent</LockKeyReaderStatus>
  <LockKeyBoardStatus>invalid</LockKeyBoardStatus>
  <LastKeyPressed>0</LastKeyPressed>
  <LockDisplayStatus>invalid</LockDisplayStatus>
  <LockCamPositionSensorStatus>invalid</LockCamPositionSensorStatus>
  <SuperCapVoltage>10.269</SuperCapVoltage>

```

```
<ClockBatteryVoltage>3.258</ClockBatteryVoltage>
<LockDoorSensorStatus>DoorClosed</LockDoorSensorStatus>
<LockDisableInputStatus>LockEnabled</LockDisableInputStatus>
<LockPowerSupplyStatus>invalid</LockPowerSupplyStatus>
<LockSolenoidKickerCapStatus>invalid</LockSolenoidKickerCapStatus>
<LockChangeKeyStatus>ChangeKeyIsNotPresent</LockChangeKeyStatus>
<LockGPIO1Status>LineHigh</LockGPIO1Status>
<LockGPIO2Status>LineHigh</LockGPIO2Status>
<LockOnboardMemoryStatus>MemoryResponding</LockOnboardMemoryStatus>
<LockOnboardClockStatus>ClockRespondingRunning</LockOnboardClockStatus>

<LockOnboardClockInterruptLineStatus>NoClockInterrupt</LockOnboardClockInterruptLineStatus>
<LockOnboardClockDateTime>2013-08-15T17:38:21Z</LockOnboardClockDateTime>
<LockOnboardClockDateTimeRead>2013-08-
15T17:37:47.8902734Z</LockOnboardClockDateTimeRead>
<Temperature>18</Temperature>
<VCCSystemVoltage>3.3</VCCSystemVoltage>
<MemoryFormatVersion>0</MemoryFormatVersion>
<LockControlCardStatus>ControlCardPresent</LockControlCardStatus>
<LockBreakOutBoxStatus>BreakOutBoxPresent</LockBreakOutBoxStatus>
<LockBoltRetractedSwitchStatus>BoltNotRetracted</LockBoltRetractedSwitchStatus>
<LockBoltExtendedSwitchStatus>invalid</LockBoltExtendedSwitchStatus>

<LockBoltWorksExtendedSensorStatus>BoltWorksExtended</LockBoltWorksExtendedSensorStatus>
<LockAlternateChangeKeyStatus>ChangeKeyIsNotPresent</LockAlternateChangeKeyStatus>
<LockAuxiliarySerialIO_Num0_Status>LineHigh</LockAuxiliarySerialIO_Num0_Status>
</LockRemoteHardwareStatusRecord>
<LockRemoteModeStatusRecord>
  <LockModeStatus>Closed</LockModeStatus>
  <LockModeOpeningOdometer>77</LockModeOpeningOdometer>
  <LockCurrentUserCount>0</LockCurrentUserCount>
  <LockMaximumUserCount>0</LockMaximumUserCount>
  <TimeDelayBeforeOpenMinutes>0</TimeDelayBeforeOpenMinutes>
  <TimeDelayWindowDurationMinutes>0</TimeDelayWindowDurationMinutes>
  <UnmodifiedOpeningCloseSeal>4379</UnmodifiedOpeningCloseSeal>
  <OpeningFirstUserID/>
  <OpeningFirstUserKeyInformation>
    <CanType>18</CanType>
    <KeyID>0000006A70CD</KeyID>
  </OpeningFirstUserKeyInformation>
  <OpeningFirstUserTimestamp>2013-08-15T17:09:13Z</OpeningFirstUserTimestamp>
  <OpeningSecondUserID/>
  <OpeningSecondUserKeyInformation/>
  <OpeningSecondUserTimestamp/>
  <IfDuressComboUsedOnOpen>false</IfDuressComboUsedOnOpen>
  <IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
  <ClosingUserID/>
  <ClosingUserKeyInformation>
    <CanType>18</CanType>
    <KeyID>0000006A70CD</KeyID>
  </ClosingUserKeyInformation>
  <ClosingUserTimestamp>2013-08-15T17:17:57Z</ClosingUserTimestamp>
  <ModifiedClosingCloseSeal>0568</ModifiedClosingCloseSeal>
  <LockModeClosingOdometer>74</LockModeClosingOdometer>
</LockRemoteModeStatusRecord>
<IfUserOpenedClosedLockDispatch>false</IfUserOpenedClosedLockDispatch>
<IfAdvancedToNextLockCombo>true</IfAdvancedToNextLockCombo>
<IfCancelledDispatch>true</IfCancelledDispatch>
<IfAffectedRouteSequence>true</IfAffectedRouteSequence>
<AffectedRouteSequence>3</AffectedRouteSequence>
<IfDuressComboUsedOnOpen>false</IfDuressComboUsedOnOpen>
<IfClockBatteryLowOrResetOnOpen>false</IfClockBatteryLowOrResetOnOpen>
<LockLogRecord>
  <LockName>Gen2 Swingbolt 1037890</LockName>
  <DispatchID>CentranSS</DispatchID>
  <User1ID>Route SHA Key 4</User1ID>
  <User2ID/>
  <RouteName>TestRoute5</RouteName>
  <GroupName/>
  <SerialNumber>001037890</SerialNumber>
  <AuditCount>75</AuditCount>
  <LockMode>R</LockMode>
  <IfDualMode>false</IfDualMode>
  <CustomerNumber>309538</CustomerNumber>
  <OpenDate>2013-08-15T17:33:27.267Z</OpenDate>
  <CloseDate/>
  <NumberCloseAttempts>0</NumberCloseAttempts>
  <LockSequence>3</LockSequence>
  <IfDispatchedOnRoute>true</IfDispatchedOnRoute>
  <IfForcedClosed>false</IfForcedClosed>
  <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
  <IfActivationCall>false</IfActivationCall>
  <DispatchOrder>2</DispatchOrder>
  <CustomerID>North Bank</CustomerID>
  <ATMSerialNumber/>
  <Region>KENTUCKY</Region>
  <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
  <ServiceBranch/>
</LockLogRecord>
<CanceledLockLogRecord>
  <LockName>Gen2 Swingbolt 1037890</LockName>
  <DispatchID>CentranSS</DispatchID>
  <User1ID>Route SHA Key 4</User1ID>
  <User2ID/>
  <RouteName>TestRoute5</RouteName>
  <GroupName/>
  <SerialNumber>001037890</SerialNumber>
```

```

<AuditCount>78</AuditCount>
<LockMode>R</LockMode>
<IfDualMode>>false</IfDualMode>
<CustomerNumber>309538</CustomerNumber>
<OpenDate>2013-08-15T17:33:27.267Z</OpenDate>
<CloseDate>2013-08-15T17:37:47.437Z</CloseDate>
<NumberCloseAttempts>0</NumberCloseAttempts>
<LockSequence>3</LockSequence>
<IfDispatchedOnRoute>true</IfDispatchedOnRoute>
<IfForcedClosed>true</IfForcedClosed>
<IfSecondLineMaintenanceCall>>false</IfSecondLineMaintenanceCall>
<IfActivationCall>>false</IfActivationCall>
<DispatchOrder>2</DispatchOrder>
<CustomerID>North Bank</CustomerID>
<ATMSerialNumber/>
<Region>KENTUCKY</Region>
<IfUnassignedOpenCall>>false</IfUnassignedOpenCall>
<ServiceBranch/>
</CanceledLockLogRecord>
</RESPONSE_LOCK_REMOTE_CANCEL_DISPATCH>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran cancel dispatch and advance to next lock mode combination across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example cancels the dispatch and advances the combination of **FLM** mode of a lock named **Gen2 Swingbolt 1037890** though a remote CenTran lock agent persistent network connection: **LockSerialNumber:1037890**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/cancel-dispatch
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/cancel-dispatch
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "ipAddressField" : null ,
  "lockModeField" : 0 ,
  "lockNameField" : "Gen2 Swingbolt 1037890"
}
```

Example Output Transaction - JSON:

```
{
  "affectedRouteSequenceField" : null ,
  "canceledLockLogRecordField" :
  [
    {
      "aTMSerialNumberField" : "North Bank ATM 101" ,
      "auditCountField" : "2" ,
      "closeDateField" : "\/Date(1410469030669)\/" ,
      "customerIDField" : "North Bank" ,
      "customerNumberField" : "934222" ,
      "dispatchIDField" : "MHG\\LSTALL" ,
      "dispatchOrderField" : "0" ,
      "groupNameField" : "" ,
      "ifActivationCallField" : false ,
      "ifDispatchedOnRouteField" : false ,
      "ifDualModeField" : true ,
      "ifForcedClosedField" : true ,
      "ifSecondLineMaintenanceCallField" : false ,
      "ifUnassignedOpenCallField" : false ,
      "lockModeField" : 0 ,
      "lockNameField" : "Gen2 Swingbolt 1037890" ,
      "lockSequenceField" : "0" ,
      "numberCloseAttemptsField" : "0" ,
      "openDateField" : "\/Date(1410468852180)\/" ,
      "regionField" : "KENTUCKY" ,
      "routeNameField" : "" ,
      "serialNumberField" : "001037890" ,
      "serviceBranchField" : "North Bank Service Branch" ,
      "user1IDField" : "nf1" ,
      "user2IDField" : "nf2"
    }
  ] ,
  "closedLockLogRecordField" : null ,
  "ifAdvancedToNextLockComboField" : true ,
  "ifAdvancedToNextLockComboFieldSpecified" : true ,
  "ifAffectedRouteSequenceField" : false ,
  "ifAffectedRouteSequenceFieldSpecified" : true ,
  "ifCancelledDispatchField" : true ,
  "ifCancelledDispatchFieldSpecified" : true ,
  "ifClockBatteryLowOrResetOnOpenField" : false ,
  "ifClockBatteryLowOrResetOnOpenFieldSpecified" : true ,
  "ifDuressComboUsedOnOpenField" : false ,
  "ifDuressComboUsedOnOpenFieldSpecified" : true ,
  "ifUserOpenedClosedLockDispatchField" : false ,
  "ifUserOpenedClosedLockDispatchFieldSpecified" : true ,
  "lockLogRecordField" :
  [
    {
      "aTMSerialNumberField" : "North Bank ATM 101" ,
      "auditCountField" : "1" ,
      "closeDateField" : null ,
      "customerIDField" : "North Bank" ,
      "customerNumberField" : "934222" ,
      "dispatchIDField" : "MHG\\LSTALL" ,
      "dispatchOrderField" : "0" ,
      "groupNameField" : "" ,
      "ifActivationCallField" : false ,
      "ifDispatchedOnRouteField" : false ,
      "ifDualModeField" : true ,
      "ifForcedClosedField" : false ,
      "ifSecondLineMaintenanceCallField" : false ,
      "ifUnassignedOpenCallField" : false ,
      "lockModeField" : 0 ,
      "lockNameField" : "Gen2 Swingbolt 1037890" ,
      "lockSequenceField" : "0" ,
      "numberCloseAttemptsField" : "0" ,
      "openDateField" : "\/Date(1410468852180)\/" ,
      "regionField" : "KENTUCKY" ,
      "routeNameField" : "" ,
      "serialNumberField" : "001037890" ,
      "serviceBranchField" : "North Bank Service Branch" ,
      "user1IDField" : "nf1" ,

```

```

        "user2IDField" : "nf2"
    }
},
"lockRecordField" :
{
    "aTMSerialNumberField" : "North Bank ATM 101" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : "" ,
    "auditCountField" : "2" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : "\/Date(1410469030669)\/" ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "934222" ,
    "description1Field" : "" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "MHG\\LSTALL" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
    "groupNameField" : "" ,
    "ifActivationCallField" : false ,
    "ifDualModeField" : true ,
    "ifForcedClosedField" : true ,
    "ifLastRoute1IssuedField" : false ,
    "ifLastRoute2IssuedField" : false ,
    "ifLastRoute3IssuedField" : false ,
    "ifLegacyImportField" : false ,
    "ifLockOpenField" : false ,
    "ifNoAlarmField" : false ,
    "ifPreviousRoute1IssuedField" : false ,
    "ifPreviousRoute2IssuedField" : false ,
    "ifPreviousRoute3IssuedField" : false ,
    "ifRoute1IssuedField" : false ,
    "ifRoute2IssuedField" : false ,
    "ifRoute3IssuedField" : false ,
    "ifSecondLineMaintenanceCallField" : false ,
    "ifUnassignedOpenCallField" : false ,
    "issuedComboUser1Seq1Field" : "506510" ,
    "issuedComboUser1Seq2Field" : "0" ,
    "issuedComboUser1Seq3Field" : "0" ,
    "issuedComboUser2Seq1Field" : "498221" ,
    "issuedComboUser2Seq2Field" : "0" ,
    "issuedComboUser2Seq3Field" : "0" ,
    "keyCloseSealField" : "12651" ,
    "lastUsedDateField" : "\/Date(1410469030669)\/" ,
    "lockActivationStatusField" : "gen2" ,
    "lockDispatchStatusField" : "" ,
    "lockHardwareModelField" : "" ,
    "lockModeField" : 0 ,
    "lockNameField" : "Gen2 Swingbolt 1037890" ,
    "lowBatteryDateField" : null ,
    "networkAddressField" : "0.0.0.0" ,
    "networkPortField" : "0" ,
    "openTime1Field" : "\/Date(1410468852180)\/" ,
    "openTime2Field" : null ,
    "openTime3Field" : null ,
    "openTries1Field" : "0" ,
    "openTries2Field" : "0" ,
    "openTries3Field" : "0" ,
    "originalSerialNumberField" : "000000" ,
    "previousCloseTime1Field" : "\/Date(1410467002773)\/" ,
    "previousCloseTime2Field" : null ,
    "previousCloseTime3Field" : null ,
    "previousComboUser1Seq1Field" : "103245" ,
    "previousComboUser1Seq2Field" : "0" ,
    "previousComboUser1Seq3Field" : "0" ,
    "previousComboUser2Seq1Field" : "563122" ,
    "previousComboUser2Seq2Field" : "0" ,
    "previousComboUser2Seq3Field" : "0" ,
    "previousOpenTime1Field" : "\/Date(1410466994950)\/" ,
    "previousOpenTime2Field" : null ,
    "previousOpenTime3Field" : null ,
    "previousRouteName1Field" : "" ,
    "previousRouteName2Field" : ""
}

```

```

"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "38667" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "12651" ,
"previousUser1ID1Field" : "nf1" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "nf2" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "16809" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "16809" ,
"serialNumberField" : "001037890" ,
"serviceBranchField" : "North Bank Service Branch" ,
"startDateField" : "\\Date(1410459135347)\\/" ,
"stateField" : "KY" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "nf1" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "nf2" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,
"userDefined4Field" : "" ,
"zipField" : "40508"
} ,
"lockRemoteHardwareStatusRecordField" :
{
    "clockBatteryVoltageField" : 3.249 ,
    "lastKeyPressedField" : 0 ,
    "lockAlternateChangeKeyStatusField" : 0 ,
    "lockAuxiliarySerialIO_Num0_StatusField" : 0 ,
    "lockBoltExtendedSwitchStatusField" : 3 ,
    "lockBoltRetractedSwitchStatusField" : 0 ,
    "lockBoltWorksExtendedSensorStatusField" : 0 ,
    "lockBreakOutBoxStatusField" : 0 ,
    "lockCamPositionSensorStatusField" : 2 ,
    "lockChangeKeyStatusField" : 0 ,
    "lockControlCardStatusField" : 0 ,
    "lockDisableInputStatusField" : 0 ,
    "lockDisplayStatusField" : 2 ,
    "lockDoorSensorStatusField" : 0 ,
    "lockGPIO1StatusField" : 0 ,
    "lockGPIO2StatusField" : 0 ,
    "lockKeyBoardStatusField" : 4 ,
    "lockKeyReaderStatusField" : 0 ,
    "lockOnboardClockDateTimeField" : "\\Date(1410469031000)\\/" ,
    "lockOnboardClockDateTimeReadField" : "\\Date(1410469031124)\\/" ,
    "lockOnboardClockInterruptLineStatusField" : 0 ,
    "lockOnboardClockStatusField" : 0 ,
    "lockOnboardMemoryStatusField" : 0 ,
    "lockPowerSupplyStatusField" : 2 ,
    "lockSolenoidKickerCapStatusField" : 2 ,
    "memoryFormatVersionField" : "0" ,
    "superCapVoltageField" : 10.248 ,
    "temperatureField" : 18.7 ,
    "vCCSystemVoltageField" : 3.3
} ,
"lockRemoteModeStatusRecordField" :
{
    "closingUserIDField" : null ,
    "closingUserKeyInformationField" :
    {
        "canTypeField" :
        [
            24
        ] ,
        "keyIDField" :
        [
            0 ,
            0 ,
            0 ,
            106 ,
            113 ,
            172
        ]
    } ,
    "closingUserTimestampField" : "\\Date(1409161561000)\\/" ,

```



```

        "ifClockBatteryLowOrResetOnOpenField" : false ,
        "ifDuressComboUsedOnOpenField" : false ,
        "lockCurrentUserCountField" : "0" ,
        "lockMaximumUserCountField" : "0" ,
        "lockModeClosingOdometerField" : "8" ,
        "lockModeOpeningOdometerField" : "1" ,
        "lockModeStatusField" : 1 ,
        "modifiedClosingCloseSealField" : "3607" ,
        "openingFirstUserIDField" : null ,
        "openingFirstUserKeyInformationField" :
        {
            "canTypeField" :
            [
                24
            ] ,
            "keyIDField" :
            [
                0 ,
                0 ,
                0 ,
                106 ,
                113 ,
                172
            ]
        } ,
        "openingFirstUserTimestampField" : "\Date(1409161520000)\/" ,
        "openingSecondUserIDField" : null ,
        "openingSecondUserKeyInformationField" : null ,
        "openingSecondUserTimestampField" : "\Date(5241652095000)\/" ,
        "timeDelayBeforeOpenMinutesField" : "0" ,
        "timeDelayWindowDurationMinutesField" : "0" ,
        "unmodifiedOpeningCloseSealField" : "2143"
    } ,
    "lockRemoteStatusRecordField" :
    {
        "auditEventCountField" : "367" ,
        "auditEventOdometerField" : "367" ,
        "buildVersionField" : "1078" ,
        "ifAuditStatusWrappedField" : false ,
        "ifBoltExtendedDoorOpenField" : false ,
        "ifBoltRetractedField" : false ,
        "ifBoltWorksSensorConnectedOnOpenField" : 1 ,
        "ifDelayedOpenInProgressField" : false ,
        "ifDoorSensorConnectedOnOpenField" : 1 ,
        "ifDuressOpenInProgressField" : false ,
        "ifLockBankModeActiveField" : true ,
        "ifLockFLMModeActiveField" : true ,
        "ifLockOutInProgressField" : false ,
        "ifLockRouteModeActiveField" : true ,
        "ifRemoteAdministrationEnabledField" : 0 ,
        "ifRemoteDisableField" : false ,
        "ifShelvedOpenInProgressField" : false ,
        "listLockRemoteStatusErrorHistoryRecordField" :
        [
            {
                "lockErrorDateTimeField" : "\Date(1398174347000)\/" ,
                "lockErrorDateTimeFieldSpecified" : false ,
                "lockErrorModeField" : "Lock" ,
                "lockErrorTransactionField" : "Bank User not found in Lock List"
            } ,
            {
                "lockErrorDateTimeField" : "\Date(1398174338000)\/" ,
                "lockErrorDateTimeFieldSpecified" : false ,
                "lockErrorModeField" : "Lock" ,
                "lockErrorTransactionField" : "Bank User not found in Lock List"
            } ,
            {
                "lockErrorDateTimeField" : "\Date(1393356631000)\/" ,
                "lockErrorDateTimeFieldSpecified" : false ,
                "lockErrorModeField" : "Lock" ,
                "lockErrorTransactionField" : "Key-type mismatch Error"
            } ,
            {
                "lockErrorDateTimeField" : "\Date(1393356620000)\/" ,
                "lockErrorDateTimeFieldSpecified" : false ,
                "lockErrorModeField" : "Lock" ,
                "lockErrorTransactionField" : "Key-type mismatch Error"
            }
        ] ,
        "lockBankModeActivationStatusField" : 1 ,
        "lockFLMModeActivationStatusField" : 3 ,
        "lockOpeningOdometerField" : "119" ,
        "lockRouteModeActivationStatusField" : 1 ,
        "majorVersionField" : "2" ,
        "minorVersionField" : "2" ,
        "productCodeField" : "8" ,
        "productFamilyField" : "2" ,
        "serialNumberField" : "001037890"
    } ,
    "resultRecordField" :

```



```

{
    "descriptionField" :
    [
        "Lock event evaluated from lock successfully."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
} ,
"tTRANSACTION_LOCK_REMOTE_CANCEL_DISPATCHField" :
{
    "communicationsIDField" : "LockSerialNumber:1037890" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "iPAddressField" : null ,
    "lockModeField" : 0 ,
    "lockNameField" : "Gen2 Swingbolt 1037890"
}
}

```

3.10.14 Web Service Remote Lock Management - Input Dispatched Combination to Lock and Lock Prompt for User Key (IPI)

CenTran Programming Reference Manual

This transaction is used to input a currently dispatched combination to the remotely connected lock.

Upon receiving the combination, the lock checks if the specified lock mode is in a closed state. If the lock mode is not closed, if the bolt is retracted or the container door switch indicates open, then an error will be returned by the lock.

If the lock mode is closed and the lock is physically closed, the lock will return a success result and stop accepting further remote serial communications. Please note, a success result from the lock for this operation only means that the combination(s) have been accepted. It does not mean the combination(s) match the lock user key(s) or that the user has successfully opened the lock.

The lock will then prompt IPI for the first matching lock user key. The lock user present at the lock is required to present the matching lock user key to the lock key reader. If the combination matches with the key, the lock will open.

If the lock is in dual access mode, it will first prompt IPI for the first matching lock user key. After the first lock user key has been successfully presented, it will then prompt IP2 for the second lock user key. After the second lock user key has been successfully presented, the lock will compare the first combination with the first lock user key and the second combination with the second lock user key. If both combinations match the appropriate lock user key, the lock will open.

Caution

If the lock is in dual access mode, the lock user keys must be presented in the same order as specified in the dispatch of the users to the lock. If the keys are presented in reverse order to the lock, the comparison of the combinations to the keys will be reversed and the lock will display an error.

If this transaction is used and the lock is dispatched on one or more route sequences, a route sequence must be specified. This is the same as usage of route sequences by lock users dispatched on a route. The route sequence must be dispatched, and must be in the range of 1 to 3.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to input combination to.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to input combination to. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.
- **Lock Name** - This is the lock name of the lock that you are going to input combination to.
- **Lock Mode** - This is the lock mode of the lock that you are going to input combination to.
- **Route Sequence Number** - This is the route sequence number of the dispatch that you are going to input to the lock. This value should be 0 if not dispatched on a route. If dispatched on a route, it can be a value of 1 to 3.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success
- Lock record including dispatch information

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

Once the command to input a combination is successfully accepted by the lock, it will return back a success reply and then halt further remote communications. The lock will then begin prompting the user or users for their lock keys. After the lock has been opened, or the user has failed to successfully present the correct lock user key, the lock will reboot. After the lock has rebooted, it will be available for remote communications again.

Example

This example inputs the dispatched combination for **route sequence 3** of **Route** mode of a lock named **Gen2 Swingbolt 1158563** though a remote CenTran lock agent direct network connection: **10.108.6.104:35005**

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/input-combo-prompt-ipi
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242.domain.local/CenTranService/rest/lock/input-combo-prompt-ipi
```

Example Input Transaction:

```
<TRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPI>
  <IPAddress>10.108.6.104:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <LockName>Gen2 Swingbolt 1158563</LockName>
  <LockMode>R</LockMode>
  <LockSequence>3</LockSequence>
  <DispatcherID></DispatcherID>
</TRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPI>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_INPUT_COMBO_IPI>
  <TRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPI>
    <IPAddress>10.108.6.104:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <LockName>Gen2 Swingbolt 1158563</LockName>
    <LockMode>R</LockMode>
    <LockSequence>3</LockSequence>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPI>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock single user combination input to lock successfully, lock prompting
IPI.</Description>
  </ResultRecord>
  <LockRecord>
    <LockName>Gen2 Swingbolt 1158563</LockName>
    <RecordType>A</RecordType>
    <StartDate>2014-10-03T19:18:53.057Z</StartDate>
    <LastUsedDate>2014-10-06T15:15:09.227Z</LastUsedDate>
    <CustomerNumber>497234</CustomerNumber>
    <LockMode>R</LockMode>
    <IfDualMode>false</IfDualMode>
    <SerialNumber>001158563</SerialNumber>
    <AuditCount>1</AuditCount>
    <IfLockOpen>false</IfLockOpen>
    <IfForcedClosed>false</IfForcedClosed>
    <IfRoute1Issued>true</IfRoute1Issued>
    <IfRoute2Issued>true</IfRoute2Issued>
    <IfRoute3Issued>true</IfRoute3Issued>
    <IfNoAlarm>false</IfNoAlarm>
    <IfSecondLineMaintenanceCall>false</IfSecondLineMaintenanceCall>
    <IfActivationCall>false</IfActivationCall>
    <IfUnassignedOpenCall>false</IfUnassignedOpenCall>
    <Seal>38427</Seal>
    <PreviousSeal>38427</PreviousSeal>
    <RouteSeal1>1345</RouteSeal1>
    <RouteSeal2>30888</RouteSeal2>
    <RouteSeal3>29532</RouteSeal3>
    <PreviousRouteSeal1>0</PreviousRouteSeal1>
    <PreviousRouteSeal2>0</PreviousRouteSeal2>
    <PreviousRouteSeal3>0</PreviousRouteSeal3>
    <OpenTries1>0</OpenTries1>
    <OpenTries2>0</OpenTries2>
    <OpenTries3>0</OpenTries3>
    <TransferReturnCode>0</TransferReturnCode>
    <IssuedComboUser1Seq1>4384</IssuedComboUser1Seq1>
    <IssuedComboUser1Seq2>406117</IssuedComboUser1Seq2>
    <IssuedComboUser1Seq3>737114</IssuedComboUser1Seq3>
    <IssuedComboUser2Seq1>0</IssuedComboUser2Seq1>
    <IssuedComboUser2Seq2>0</IssuedComboUser2Seq2>
    <IssuedComboUser2Seq3>0</IssuedComboUser2Seq3>
    <PreviousComboUser1Seq1>0</PreviousComboUser1Seq1>
    <PreviousComboUser1Seq2>0</PreviousComboUser1Seq2>
    <PreviousComboUser1Seq3>0</PreviousComboUser1Seq3>
    <PreviousComboUser2Seq1>0</PreviousComboUser2Seq1>
    <PreviousComboUser2Seq2>0</PreviousComboUser2Seq2>
    <PreviousComboUser2Seq3>0</PreviousComboUser2Seq3>
    <GroupName/>
    <OriginalSerialNumber>000000</OriginalSerialNumber>
    <Description1>Test Stand</Description1>
    <Description2/>
    <Description3/>
    <Description4/>
    <CustomerID>North Bank</CustomerID>
    <ATMSerialNumber>ATM 1158563</ATMSerialNumber>
    <UserDefined1/>
    <UserDefined2/>
    <UserDefined3/>
    <UserDefined4/>
    <Region>KENTUCKY</Region>
    <IfLastRoute1Issued>true</IfLastRoute1Issued>
    <IfLastRoute2Issued>true</IfLastRoute2Issued>
    <IfLastRoute3Issued>true</IfLastRoute3Issued>
    <User1ID1>Route SHA Key 3</User1ID1>
    <User1ID2>Route SHA Key 3</User1ID2>
    <User1ID3>Route SHA Key 3</User1ID3>
    <User2ID1/>
    <User2ID2/>
    <User2ID3/>
```

```

<RouteName1>TestRoute9</RouteName1>
<RouteName2>TestRoute9</RouteName2>
<RouteName3>TestRoute9</RouteName3>
<DispatcherID1>CentranSS</DispatcherID1>
<DispatcherID2>CentranSS</DispatcherID2>
<DispatcherID3>CentranSS</DispatcherID3>
<OpenTime1>2014-10-06T15:15:07.637Z</OpenTime1>
<OpenTime2>2014-10-06T15:15:08.507Z</OpenTime2>
<OpenTime3>2014-10-06T15:15:09.227Z</OpenTime3>
<CloseTime1/>
<CloseTime2/>
<CloseTime3/>
<IfPreviousRoute1Issued>>false</IfPreviousRoute1Issued>
<IfPreviousRoute2Issued>>false</IfPreviousRoute2Issued>
<IfPreviousRoute3Issued>>false</IfPreviousRoute3Issued>
<PreviousUser1ID1/>
<PreviousUser1ID2/>
<PreviousUser1ID3/>
<PreviousUser2ID1/>
<PreviousUser2ID2/>
<PreviousUser2ID3/>
<PreviousRouteName1/>
<PreviousRouteName2/>
<PreviousRouteName3/>
<PreviousOpenTime1/>
<PreviousOpenTime2/>
<PreviousOpenTime3/>
<PreviousCloseTime1/>
<PreviousCloseTime2/>
<PreviousCloseTime3/>
<ServiceBranch>North Bank Service</ServiceBranch>
<Address1>749 W. Short St.</Address1>
<Address2/>
<City>Lexington</City>
<State>KY</State>
<ZIP>40508</ZIP>
<Country>USA</Country>
<KeyCloseSeal>38427</KeyCloseSeal>
<BankBranchName/>
<BankOpenDelay>0</BankOpenDelay>
<BankOpenWindow>0</BankOpenWindow>
<LockHardwareModel/>
<LockActivationStatus>gen2</LockActivationStatus>
<LockDispatchStatus/>
<TimeZoneID>Eastern Standard Time</TimeZoneID>
<LowBatteryDate/>
<DuressDate/>
<IfLegacyImport>>false</IfLegacyImport>
<NetworkAddress>0.0.0.0</NetworkAddress>
<NetworkPort>0</NetworkPort>
<DisplayIssuedComboUser1Seq1>004384</DisplayIssuedComboUser1Seq1>
<DisplayIssuedComboUser1Seq2>406117</DisplayIssuedComboUser1Seq2>
<DisplayIssuedComboUser1Seq3>737114</DisplayIssuedComboUser1Seq3>
<DisplayIssuedComboUser2Seq1/>
<DisplayIssuedComboUser2Seq2/>
<DisplayIssuedComboUser2Seq3/>
<CloseSealLength>4</CloseSealLength>
</LockRecord>
</RESPONSE_LOCK_REMOTE_INPUT_COMBO_IPI>

```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. This fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran input combination across network and prompt IPI transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

lockModeField - Lock Mode Enumeration:

Value	Enumerated Value	Meaning
0	F	FLM Mode
1	R	Route Mode
2	B	Bank Mode

recordTypeField - Lock Status Type Enumeration:

Value	Enumerated Value	Meaning
0	D	Lock is shelved.
1	A	Lock is active.
2	P	Lock is pending being shelved.
3	I	Lock is inactive, activated but never used.
4	R	Lock is being replaced.

Example

This example inputs the dispatched combination of **FLM** mode of a lock named **Gen2 Swingbolt 1158563** though a remote Centran lock agent persistent network connection: **LockSerialNumber:1158563**

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/input-combo-prompt-ipi
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/input-combo-prompt-ipi
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "LockSerialNumber:1158563" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "iPAddressField" : null ,
  "lockModeField" : 0 ,
  "lockNameField" : "Gen2 Swingbolt 1158563" ,
  "lockSequenceField" : "0"
}
```

Example Output Transaction - JSON:

```
{
  "lockRecordField" :
  {
    "aTMSerialNumberField" : "ATM 1158563" ,
    "address1Field" : "749 W. Short St." ,
    "address2Field" : "" ,
    "auditCountField" : "1" ,
    "bankBranchNameField" : "" ,
    "bankModeUserNameArrayField" : null ,
    "bankOpenDelayField" : "0" ,
    "bankOpenWindowField" : "0" ,
    "cityField" : "Lexington" ,
    "closeSealLengthField" : "4" ,
    "closeTime1Field" : null ,
    "closeTime2Field" : null ,
    "closeTime3Field" : null ,
    "countryField" : "USA" ,
    "customerIDField" : "North Bank" ,
    "customerNumberField" : "965482" ,
    "description1Field" : "Test Stand" ,
    "description2Field" : "" ,
    "description3Field" : "" ,
    "description4Field" : "" ,
    "dispatcherID1Field" : "CentranSS" ,
    "dispatcherID2Field" : "" ,
    "dispatcherID3Field" : "" ,
    "displayIssuedComboUser1Seq1Field" : "672483" ,
    "displayIssuedComboUser1Seq2Field" : "" ,
    "displayIssuedComboUser1Seq3Field" : "" ,
    "displayIssuedComboUser2Seq1Field" : "" ,
    "displayIssuedComboUser2Seq2Field" : "" ,
    "displayIssuedComboUser2Seq3Field" : "" ,
    "duressDateField" : null ,
  }
}
```

```

"groupNameField" : "" ,
"ifActivationCallField" : false ,
"ifDualModeField" : false ,
"ifForcedClosedField" : false ,
"ifLastRoute1IssuedField" : false ,
"ifLastRoute2IssuedField" : false ,
"ifLastRoute3IssuedField" : false ,
"ifLegacyImportField" : false ,
"ifLockOpenField" : true ,
"ifNoAlarmField" : false ,
"ifPreviousRoute1IssuedField" : false ,
"ifPreviousRoute2IssuedField" : false ,
"ifPreviousRoute3IssuedField" : false ,
"ifRoute1IssuedField" : false ,
"ifRoute2IssuedField" : false ,
"ifRoute3IssuedField" : false ,
"ifSecondLineMaintenanceCallField" : false ,
"ifUnassignedOpenCallField" : false ,
"issuedComboUser1Seq1Field" : "672483" ,
"issuedComboUser1Seq2Field" : "0" ,
"issuedComboUser1Seq3Field" : "0" ,
"issuedComboUser2Seq1Field" : "0" ,
"issuedComboUser2Seq2Field" : "0" ,
"issuedComboUser2Seq3Field" : "0" ,
"keyCloseSealField" : "10497" ,
"lastUsedDateField" : "\Date(1412609794767)\" ,
"lockActivationStatusField" : "gen2" ,
"lockDispatchStatusField" : "" ,
"lockHardwareModelField" : "" ,
"lockModeField" : 0 ,
"lockNameField" : "Gen2 Swingbolt 1158563" ,
"lowBatteryDateField" : null ,
"networkAddressField" : "0.0.0.0" ,
"networkPortField" : "0" ,
"openTime1Field" : "\Date(1412609794767)\" ,
"openTime2Field" : null ,
"openTime3Field" : null ,
"openTries1Field" : "0" ,
"openTries2Field" : "0" ,
"openTries3Field" : "0" ,
"originalSerialNumberField" : "000000" ,
"previousCloseTime1Field" : null ,
"previousCloseTime2Field" : null ,
"previousCloseTime3Field" : null ,
"previousComboUser1Seq1Field" : "0" ,
"previousComboUser1Seq2Field" : "0" ,
"previousComboUser1Seq3Field" : "0" ,
"previousComboUser2Seq1Field" : "0" ,
"previousComboUser2Seq2Field" : "0" ,
"previousComboUser2Seq3Field" : "0" ,
"previousOpenTime1Field" : null ,
"previousOpenTime2Field" : null ,
"previousOpenTime3Field" : null ,
"previousRouteName1Field" : "" ,
"previousRouteName2Field" : "" ,
"previousRouteName3Field" : "" ,
"previousRouteSeal1Field" : "0" ,
"previousRouteSeal2Field" : "0" ,
"previousRouteSeal3Field" : "0" ,
"previousSealField" : "10497" ,
"previousUser1ID1Field" : "" ,
"previousUser1ID2Field" : "" ,
"previousUser1ID3Field" : "" ,
"previousUser2ID1Field" : "" ,
"previousUser2ID2Field" : "" ,
"previousUser2ID3Field" : "" ,
"recordTypeField" : 1 ,
"regionField" : "KENTUCKY" ,
"routeName1Field" : "" ,
"routeName2Field" : "" ,
"routeName3Field" : "" ,
"routeSeal1Field" : "29469" ,
"routeSeal2Field" : "0" ,
"routeSeal3Field" : "0" ,
"sealField" : "29469" ,
"serialNumberField" : "001158563" ,
"serviceBranchField" : "North Bank Service" ,
"startDateField" : "\Date(1412360960797)\" ,
"stateField" : "KY" ,
"timeZoneIDField" : "Eastern Standard Time" ,
"transferReturnCodeField" : "0" ,
"user1ID1Field" : "FLM SHA Key 6" ,
"user1ID2Field" : "" ,
"user1ID3Field" : "" ,
"user2ID1Field" : "" ,
"user2ID2Field" : "" ,
"user2ID3Field" : "" ,
"userDefined1Field" : "" ,
"userDefined2Field" : "" ,
"userDefined3Field" : "" ,

```

```

        "userDefined4Field" : "" ,
        "zIPField" : "40508"
    } ,
    "resultRecordField" :
    {
        "descriptionField" :
        [
            "Lock single user combination input to lock successfully, lock prompting IPI."
        ] ,
        "errorCodeField" : "RC_OK" ,
        "ifRetryValidField" : false ,
        "resultField" : 0
    } ,
    "tTRANSACTION_LOCK_REMOTE_INPUT_COMBO_IPIField" :
    {
        "communicationsIDField" : "LockSerialNumber:1158563" ,
        "communicationsMethodField" : 1 ,
        "dispatcherIDField" : "CentranSS" ,
        "iPAddressField" : null ,
        "lockModeField" : 0 ,
        "lockNameField" : "Gen2 Swingbolt 1158563" ,
        "lockSequenceField" : "0"
    }
}

```

3.10.15 Web Service Remote Lock Management - Reboot Lock Across Network

CenTran Programming Reference Manual

This transaction is used to reboot a Cencon Gen 2 or higher lock that is connected to a network IP address.

The network connection to the lock can be through an ATM computer running the Cencon ATM Agent software, or through an ethernet to serial adapter for the Cencon lock.

Transaction information required:

- **Lock IP Address and Port** - Specifies the lock to connect to from CenTran to reboot.
- **Lock Communications ID** - Specifies an alternate identification of a lock to connect to from CenTran to reboot. This is to support alternate methods of handling remote communications with locks for various network topologies.
- **Lock Communications Method** - Specifies the method of communication to be used to communicate with the lock. The default method is by TCP/IP network communications. This is specified by the value 'Tcp'.

Note

Calls to the CenTran web service, whether REST or SOAP based, determine the Dispatcher ID based on your configured method of authentication with the CenTran web service.

Transaction information returned:

Success:

- Result record indicating success

Failure:

- Result record indicating failure

Note

When the Cencon Gen 2 lock starts up, it waits for either remote communications to start or for some form of user input. If some user input begins first, the lock will not respond to remote communications until the user operation at the lock is complete. If remote communications begins first, the lock will enter into communications mode and not exit communications until rebooted remotely or the communications times out without receiving data (around 20 seconds). While the lock is in communications mode, it will not respond to user input.

If you are doing remote communications to the lock and you have completed your operations with the lock, you should then reboot the lock so it is immediately available for user operations. Otherwise, anyone waiting on the lock will have to wait for the communications to time out (20 seconds).

Example

Input Transaction Format: (HTTP Post)

```
https://{host}/CentranService/rest/lock/reboot
```

Example Input Transaction: (HTTP Post)

```
https://kml-3242/CentranService/rest/lock/reboot
```

Example Input Transaction: (HTTP Body)

```
<TRANSACTION_LOCK_REMOTE_REBOOT>
  <IPAddress>10.108.6.121:35005</IPAddress>
  <CommunicationsID/>
  <CommunicationsMethod>Tcp</CommunicationsMethod>
  <DispatcherID/>
</TRANSACTION_LOCK_REMOTE_REBOOT>
```

Output Transaction:

```
<RESPONSE_LOCK_REMOTE_REBOOT>
  <TRANSACTION_LOCK_REMOTE_REBOOT>
    <IPAddress>10.108.6.121:35005</IPAddress>
    <CommunicationsID/>
    <CommunicationsMethod>Tcp</CommunicationsMethod>
    <DispatcherID>CentranSS</DispatcherID>
  </TRANSACTION_LOCK_REMOTE_REBOOT>
  <ResultRecord>
    <Result>Success</Result>
    <ErrorCode>RC_OK</ErrorCode>
    <IfRetryValid>false</IfRetryValid>
    <Description>Lock rebooted successfully.</Description>
  </ResultRecord>
</RESPONSE_LOCK_REMOTE_REBOOT>
```

JSON (Javascript Object Notation) data formatting:

JSON data formatting represents dates as the number of milliseconds in the GMT time zone, regular (non-daylight savings) time

since midnight, January 1, 1970. If present, the following optional value starting with a + indicates the offset for local time conversion.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data results in some additional boolean fields being added. These fields are used to indicate if other fields are valid or not. They will all begin with the field name they indicate, and end with **Specified**.

An example of this would be the **creationDateField** field followed by **creationDateFieldSpecified** field to indicate if it is valid.

The Microsoft Windows Communication Foundation (WCF) support for serializing and deserializing JSON data also results in hexadecimal array data being sent as decimal integers. The key serial number data byte values are represented by a decimal value for each byte instead of a hexadecimal value for each byte.

JSON data formatting converts any enumerated values from the CenTran XML schema to numbers rather than passing the enumerated value name. The following enumerated values are present in the CenTran reboot lock across network transaction:

resultField - Transaction Result Enumeration:

Value	Enumerated Value	Meaning
0	Success	The transaction completed successfully.
1	PartialSuccess	The transaction completed successfully for some of the affected items. Some affected items failed. The individual items should have result fields describing each individual result.
2	Failure	The transaction failed. The errorCodeField indicates the reason for the failure.

communicationsMethodField - Network Communications Method Enumeration:

Value	Enumerated Value	Meaning
0	Tcp	Indicates that the iPAddressField contains a valid IP address for a direct network connection to either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
1	TcpClient	Indicates that the communicationsIDField contains a unique identifier for an existing persistent network connection from either a Centran Agent or Cencon KeyBox Agent software, to be used for communications for the command.
2	invalid	Indicates that the value is not set.

Example

This example reboots a lock through a remote CenTran lock agent persistent network connection:
LockSerialNumber:1037890

Input Transaction Format (HTTP Post) - JSON:

```
https://{host}/CentranServiceJSON/rest/lock/reboot
```

Example Input Transaction (HTTP Post) - JSON:

```
https://kml-3242.domain.local/CentranServiceJSON/rest/lock/reboot
```

Example Input Transaction (HTTP Body) - JSON:

```
{
  "communicationsIDField" : "LockSerialNumber:1037890" ,
  "communicationsMethodField" : 1 ,
  "dispatcherIDField" : null ,
  "iPAddressField" : null
}
```

Example Output Transaction - JSON:

```
{
  "resultRecordField" :
  {
    "descriptionField" :
    [
      "Lock rebooted successfully."
    ] ,
    "errorCodeField" : "RC_OK" ,
    "ifRetryValidField" : false ,
    "resultField" : 0
  } ,
  "tTRANSACTION_LOCK_REMOTE_REBOOTField" :
  {
    "communicationsIDField" : "LockSerialNumber:1037890" ,
    "communicationsMethodField" : 1 ,
    "dispatcherIDField" : "CentranSS" ,
    "iPAddressField" : null
  }
}
```


5.1 Web RSS Feeds - Help

CenTran Programming Reference Manual

This transaction is used to read the CenTran RSS feeds help.

Transaction information required:

- No information required.

Transaction information returned:

Success:

An HTML based help page listing available information for the CenTran web service transactions.

Failure:

There should not be a failed return of data unless an internal error or connectivity error with CenTran has occurred.

Example

Input Transaction:

```
https://{host}/CentranFeedsService/help
```

Output Transaction:

Operations at <https://kml-3242.domain.local/CenTranFeedsService/>

This page describes the service operations at this endpoint.

Uri	Method	Description
event-html/{eventid}	GET	Returns the audit HTML description for the indicated event id.
lock-errors	GET	Returns an RSS feed formatted as text of lock errors that have occurred within the last month.
lock-events/{serialnumber}	GET	Returns an RSS feed formatted as text of lock events that have occurred within the last month.

5.2 Web RSS Feeds - Lock Errors RSS Feed

CenTran Programming Reference Manual

This is a subscription RSS feed of lock errors queried from the Cencon database that have occurred within the last month. It is accessible from any major web browser or news subscription application. This feed is intended of being one way of being alerted to lock errors in a timely manner as they occur.

You can subscribe to this RSS feed in order to be notified of lock errors. This can be done using Internet Explorer, Firefox, or any of a number of specialized RSS feed subscription applications.

How rapidly you are notified of an error occurring is dependent on the rate that your RSS feed subscription application is polling for updates from CenTran. The default rate for Internet Explorer is every 15 minutes. The default rate for Firefox is every 60 minutes. You can adjust the default rate that your RSS feed subscription application polls for updates.

For this feed to be effective, it requires the Cencon locks to be monitored by CenTran Agent software on the ATM consoles they are connected to. When a lock has an event occur, the CenTran Agent software receives the alert message for the event from the lock. The CenTran Agent software uses the CenTran Web Service transaction to evaluate the lock event across the network, and receives information about what event has occurred and what the current status of the lock is.

As part of evaluating the event at the lock, CenTran also updates the Cencon database audit table with any lock audit records that have occurred. The lock audit records in the Cencon database audit table can be used to be notified of lock errors that have occurred, either through the RSS feed from CenTran or by your own custom solution using direct access to the Cencon database audit table.

RSS Feed subscription information required:

- None

Example

RSS Feed URL format:

```
https://{host}/CentranFeedsService/lock-errors
```

Example RSS Feed URL:

```
https://kml-3242.domain.local/CenTranFeedsService/lock-errors
```

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5.3 Web RSS Feeds - Lock Events By Serial Number RSS Feed

CenTran Programming Reference Manual

This is a subscription RSS feed of lock events for a queried from the Cencon database that have occurred within the last month. It is accessible from any major web browser or news subscription application. This feed is intended of being one way of being alerted to lock errors in a timely manner as they occur.

You can subscribe to this RSS feed in order to be notified of lock errors. This can be done using Internet Explorer, Firefox, or any of a number of specialized RSS feed subscription applications.

How rapidly you are notified of an error occurring is dependent on the rate that your RSS feed subscription application is polling for updates from CenTran. The default rate for Internet Explorer is every 15 minutes. The default rate for Firefox is every 60 minutes. You can adjust the default rate that your RSS feed subscription application polls for updates.

For this feed to be effective, it requires the Cencon locks to be monitored by CenTran Agent software on the ATM consoles they are connected to. When a lock has an event occur, the CenTran Agent software receives the alert message for the event from the lock. The CenTran Agent software uses the CenTran Web Service transaction to evaluate the lock event across the network, and receives information about what event has occurred and what the current status of the lock is.

As part of evaluating the event at the lock, CenTran also updates the Cencon database audit table with any lock audit records that have occurred. The lock audit records in the Cencon database audit table can be used to be notified of lock errors that have occurred, either through the RSS feed from CenTran or by your own custom solution using direct access to the Cencon database audit table.

RSS Feed subscription information required:

- None

Example

RSS Feed URL format:

```
https://{host}/CentranFeedsService/lock-events/{SERIALNUMBER}
```

Example RSS Feed URL:

```
https://kml-3242.domain.local/CenTranFeedsService/lock-events/1000107
```

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6.1 Web Service CenTran Agent Service Endpoint - Summary

CenTran Programming Reference Manual

The CenTran web service exposes a lower security endpoint for support of the CenTran Agent ATM operations. The transactions available on this endpoint either provide some information without changing data, or update the Cencon database depending on the status of a Cencon Gen 2 lock. None of the transactions involve actually introducing new external data into the Cencon database.

The CenTran Agent Service Endpoint is at the following encrypted URL by default:

```
https://{host}/CentranAgentService/rest/
```

The CenTran Agent Service Endpoint is also at the following unencrypted URL by default:

```
http://{host}/CentranAgentService/rest/
```

The unencrypted URL is available for use, but is not recommended. It is preferable to set up the certificates for your CenTran server on any client systems, and use the encrypted URL.

It is required to use encryption with the main CenTran endpoint because authentication is in use. Since the CenTran Agent transactions only allow updating data from locks, no authentication is required. Encryption is still recommended, however.

The transactions exposed off of this endpoint do not require external authentication of the call to the web service. The default authentication for CenTran is automatically used. This is to avoid having to support independent authentication for the transactions occurring in an automated fashion from ATMs that the CenTran Agent Service is installed on.

The following transactions are made available on this endpoint. These transactions operate in exactly the same manner as if being called from the normal CenTran web service endpoint, with the exception of authentication.

- [Query Lock Status Across Network](#)
- [Query Lock Audits Across Network](#)
- [Evaluate Lock Event Across Network](#)
- [Version](#)

6.2 Web Service CenTran Agent Service Endpoint - Help

CenTran Programming Reference Manual

This transaction is used to read the Web Service CenTran Agent Service Endpoint help.

Transaction information required:

- No information required.

Transaction information returned:

Success:

An HTML based help page listing available information for the Web Service CenTran Agent Service Endpoint transactions.

Failure:

There should not be a failed return of data unless an internal error or connectivity error with CenTran has occurred.

Example

Input Transaction:

```
https://{host}/CentranAgentService/rest/help
```

Output Transaction:

Operations at <https://kml-3242.domain.local/CenTranAgentService/rest/>

This page describes the service operations at this endpoint.

Uri	Method	Description
lock/audits	POST	Returns audits by remotely accessing the lock at the given IP address
lock/evaluate	POST	Evaluates and returns event and status information by remotely accessing the lock at the given IP address
lock/status	POST	Returns status information by remotely accessing the lock at the given IP address
version	GET	Returns the product version information and server time for the web service

Appendix A - Error Codes

CenTran Programming Reference Manual

The following is an extensive list of error codes (with description) that CenTran could return when the incoming transaction file format is XML:

Message Name	Message Description
RC_OK	Success.
RC_PARTIAL_OK	Partial Success
RC_NOT_OK	Failure
RC_ERR_FAILED_VALIDATE_FILE	Failed to validate file against the given XML schema
RC_ERR_DISPATCHER_NOT_FOUND	Failed to find the dispatcher or logon user in the database user table. The dispatcher ID is not in the database user table
RC_ERR_DISPATCHER_NOT_SET	Dispatcher ID has not been set
RC_ERR_FAILED_READ_CONFIG_SETTINGS	Failed to read configuration settings from database
RC_ERR_LOCK_NOT_FOUND	Lock not found in lock table
RC_ERR_INVALID_LOCK_REC_LOCKNAME	Invalid lock record. The lock name is blank or contains unprintable characters
RC_ERR_FAILED_GET_DISPATCHER_REGION	Failed to get assigned region for dispatcher authorization
RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_LOCK_REGION	Dispatcher belongs to a local region. The dispatcher's region does not match the lock's region
RC_ERR_INVALID_LOCK_REC_RECTYPE	Invalid lock record. The lock record type is not set to either active, being installed, pending shelve, shelved, or being replaced
RC_ERR_LOCK_ALREADY_OPEN	Lock already opened
RC_ERR_LOCK_NOT_OPEN	Lock not open
RC_ERR_FLM1_BLANK	First RSP/FLM ID is blank
RC_ERR_FLM2_BLANK	Second RSP/FLM ID is blank
RC_ERR_FLM1_AND_FLM2_ARE_THE_SAME	Dual mode lock - The first and second user are the same user I.D.
RC_ERR_PCIO	PCIO Card error
RC_ERR_INVALID_LOCK_MODE	Invalid lock mode
RC_ERR_NOT_AUTHORIZED_TO_DO_OPERATION	Logon User ID Authorization Role does not authorize this operation
RC_ERR_DATABASE_CLOSED	Database connection is closed
RC_ERR_FAILED_BEGIN_TRANS	Failed to begin database transaction
RC_ERR_FAILED_COMMIT_TRANS	Failed to commit database transaction
RC_ERR_DISPATCH_LOCK_ROUTE_REGION_MISMATCH	Lock being dispatched on route does not have the same region as the route
RC_ERR_DISPATCH_LOCK_INVALID_SEQ	Failed to dispatch lock. Route sequence number is out of range
RC_ERR_DISPATCH_LOCK_PENDING_SHELVE	Lock pending shelve and cancelled by user
RC_ERR_LOCK_NOT_ACTIVE	Lock not active
RC_ERR_FAILED_TO_ENCRYPT_DATA	Failed to encrypt data. The data may have been corrupted, or the Cencon USB Key Box encryption data may be in error
RC_ERR_FAILED_TO_DECRYPT_DATA	Failed to decrypt data. The data may have been corrupted, or the Cencon USB Key Box encryption data may be in error
RC_ERR_CANT_SERVICE_LOCK_FLM1	First RSP/FLM ID may not service the lock
RC_ERR_CANT_SERVICE_LOCK_FLM2	Second RSP/FLM ID may not service the lock
RC_ERR_CANT_SERVICE_LOCK_FLMBOTH	Neither RSP/FLM ID may service the lock
RC_ERR_ALREADY_HAS_ANOTHER_LOCK_OPEN_FLM1	flm1 has active service call and is an FLM type user
RC_ERR_ALREADY_HAS_ANOTHER_LOCK_OPEN_FLM2	flm2 has active service call and is an FLM type user
RC_ERR_FLM1_NOT_FOUND	RSP/FLM ID 1 not found in database
RC_ERR_FLM2_NOT_FOUND	RSP/FLM ID 2 not found in database
RC_ERR_FLMBOTH_NOT_FOUND	Both RSP/FLM ID not found in database
RC_ERR_FLMBOTH_BLANK	Both RSP/FLM ID are blank
RC_ERR_LOCK_DUALMODE_ONLY_ONE_FLM	Dual mode lock but 1 FLM entered
RC_ERR_FLM1_NOT_FIELD_ID	RSP/FLM ID 1 is not a field ID (i.e. ID is a Dispatcher, Supervisor, etc.)
RC_ERR_FLM2_NOT_FIELD_ID	RSP/FLM ID 2 is not a field ID (i.e. ID is a Dispatcher, Supervisor, etc.)
RC_ERR_FLM1_NOT_SAME_MODE_AS_LOCK	RSP/FLM ID 1 is not the same mode as the lock
RC_ERR_FLM2_NOT_SAME_MODE_AS_LOCK	RSP/FLM ID 2 is not the same mode as the lock
RC_ERR_DUAL_MODE_USER_TIME_WINDOW_MISMATCH	Dual mode - user time window mismatch (one user has time windows, one user does not)
RC_ERR_FLMBOTH_NOT_SAME_MODE_AS_LOCK	Dual mode - Both IDs are not the same mode as the lock
RC_ERR_FLM1_AND_FLM2_ARE_THE_SAME	Dual mode - the user IDs are the same
RC_ERR_FLMID_REGION_DOES_NOT_MATCH_LOCK_REGION	One or both users don't match lock region, and region control is active
RC_ERR_LOCK_DUALMODE_ONLY_ONE_FLM	Lock is dual mode but only 1 FLM entered

RC_ERR_NEW_FLM1_NOT_FOUND	Failed to find new first RSP/FLM I.D. record in user database table
RC_ERR_NEW_FLM2_NOT_FOUND	Failed to find new second RSP/FLM I.D. record in user database table
RC_ERR_NEW_FLMBOTH_NOT_FOUND	Failed to find either new RSP/FLM I.D. record in user database table
RC_ERR_NEW_FLMBOTH_BLANK	Both RSP/FLM I.D. are blank
RC_ERR_FAILED_INSERT_LOG_ENTRY	Log file could not be obtained
RC_ERR_FAILED_UPDATE_LOCK_ENTRY	Failed to update lock entry in lock table
RC_ERR_FAILED_UPDATE_LOG_ENTRY	Failed to update log entry for lock
RC_ERR_FAILED_UPDATE_FLM1	Failed to update first RSP/FLM I.D. record in user database table
RC_ERR_FAILED_UPDATE_FLM2	Failed to update second RSP/FLM I.D. record in user database table
RC_ERR_FAILED_UPDATE_NEW_FLM1	Failed to update new first RSP/FLM I.D. record in user database table
RC_ERR_FAILED_UPDATE_NEW_FLM2	Failed to update new second RSP/FLM I.D. record in user database table
RC_ERR_LOG_ENTRY_NOT_FOUND	Lock dispatch record not found in lock log database table
RC_ERR_ASSIGN_LOCK_NOT_UNASSIGNED	Failed to assign lock. Lock is open but not unassigned
RC_ERR_LOCK_ALREADY_UNASSIGNED	Lock is already unassigned
RC_ERR_FORCE_CLOSE_FAILED_NOT_SKIPPED_SEQUENCE	Failed to force close lock. Force close can only be applied to locks open on a skipped route sequence
RC_ERR_CLOSE_LOCK_TOO_MANY_ATTEMPTS	Lock has been attempted to be closed more than the authorized number of times. Insufficient authority for further attempts
RC_ERR_LOCK_OPEN_BUT_UNASSIGNED	Lock is open but unassigned to a user
RC_ERR_CLOSE_ROUTE_NO_SEAL	Lock on route does not have close seal
RC_ERR_CLOSE_LOCK_NO_SEAL	Failed to close lock. No close seal given for close
RC_ERR_CLOSE_LOCK_SEAL_MISMATCH	Seal numbers do not match for lock close
RC_ERR_FORCE_CLOSE_OF_LAST_ROUTE_LOCK_SEQ	Failed to force close route lock for sequence. Sequence is last combination issued to lock
RC_ERR_FAILED_DELETE_LOG_ENTRY	Failed to remove log record from lock log database table
RC_ERR_FAILED_INSERT_LOGHIST_ENTRY	Failed to insert log record into log history database table
RC_ERR_INVALID_GROUP_BLANK	Lock group name contains embedded blanks or is blank
RC_ERR_CHANGE_REGION_REGION_INVALID_DATA	Data for region being changed is not valid
RC_ERR_CHANGE_REGION_DOESNT_EXIST	Region being changed doesn't exist
RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_LOCK_NEW_REGION	Dispatcher belongs to a local region. The dispatcher's region does not match the lock's new region
RC_ERR_CUSTOMER_NOT_FOUND	Failed to find the customer in the database customer table. The customer ID is not in the database customer table
RC_ERR_INVALID_NEW_LOCKNAME	The new lock name is blank
RC_ERR_RENAME_LOCK_NEW_NAME_MODE_ALREADY_EXISTS	Another lock already exists with the new name and mode
RC_ERR_RENAME_FAILED_UPDATE_LOCK_FOR_RENAME	Failed to update the lock record for renaming lock
RC_ERR_RENAME_FAILED_UPDATE_LOG_FOR_RENAME	Failed to update the lock log entries for renaming open lock
RC_ERR_FAILED_OPEN_TABLE	Failed to open table. A database error occurred
RC_ERR_FAILED_GET_RECORD_COUNT	Failed to get record count for current table given search parameter. A database error occurred
RC_ERR_INVALID_ROUTE_NAME_BLANK	Invalid route name. Route name is blank
RC_ERR_FAILED_ADD_ROUTE_ALREADY_EXISTS	Failed to add route. Route name already exists
RC_ERR_REGION_INVALID_DATA	Data for region is not valid. Region is blank
RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_ROUTE_REGION	Dispatcher belongs to a local region. The dispatcher's region does not match the route's region
RC_ERR_ROUTE_FAILED_INSERT	Failed to insert record into route table
RC_ERR_ROUTE_FAILED_UPDATE	Failed to update record in route table
RC_ERR_ROUTE_LOCK_FAILED_UPDATE	Failed to update record in route lock table
RC_ERR_ROUTE_LOCK_FAILED_INSERT	Failed to insert record into route lock table
RC_ERR_ROUTE_NOT_FOUND	Failed to find route name entry in route table
RC_ERR_ROUTE_FAILED_OPEN_ROUTE_LOCK_TABLE	Failed to open route lock table
RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_ROUTE_NEW_REGION	Dispatcher belongs to a local region. The dispatcher's region does not match the route's new region
RC_ERR_ROUTE_FAILED_UPDATE	Failed to update record in route table
RC_ERR_ROUTE_FAILED_DELETE	Failed to delete record from route table
RC_ERR_INPUT_FILE_NO_ROUTE_LOCKS	The input transaction file does not contain any route locks
RC_ERR_INVALID_LOCKNAME	Invalid lock name. The lock name is blank
RC_ERR_FAILED_ADD_ROUTE_LOCK_ALREADY_EXISTS	Error adding route lock record. Route lock already exists
RC_ERR_LOCK_ROUTE_REGION_MISMATCH	Lock does not have the same region as the route

RC_ERR_ROUTE_NO_LOCKS_ASSIGNED	The route has no locks assigned to it
RC_ERR_INVALID_ROUTE_SUPPORT_SETTING	Invalid Route Support Setting
RC_ERR_ROUTE_LOCK_NOT_FOUND	Route lock not found in route lock table
RC_ERR_ROUTE_LOCK_FAILED_DELETE	Failed to delete record in route lock table
RC_ERR_DISPATCH_ROUTE_FAILED_READ_ROUTE_FILE	Failed to read route from file
RC_ERR_DISPATCH_ROUTE_FAILED_READ_ROUTE_DATABASE	Failed to read route from database
RC_ERR_DISPATCH_ROUTE_ALREADY_EXISTS_DIFF_REGION_CONTROL	Failed to dispatch route. The route name is already in use in a different region, and region control is active
RC_ERR_FILL_ROUTE_LOCK_LIST_SOME_LOCKS_FAILED	Fill route lock list some locks failed
RC_ERR_FILL_ROUTE_LOCK_LIST_ALL_LOCKS_FAILED	Fill route lock list all locks failed
RC_ERR_DISPATCH_ROUTE_FAILED_FLMS_LOCKS_ROUTE	Incompatibility or error encountered between locks and users for route from database
RC_ERR_DISPATCH_ROUTE_REGION_DOES_NOT_MATCH_LOCKS_REGION	Failed to dispatch route. The region assigned to the route does not match the region assigned to one or more of the locks on the route
RC_ERR_DISPATCH_ROUTE_SOME_LOCKS_FAILED	Not all locks were successfully dispatched
RC_ERR_DISPATCH_ROUTE_ALL_LOCKS_FAILED	No locks were successfully dispatched
RC_ERR_REASSIGN_ROUTE_SOME_NOT_REASSIGNED	Some locks were not reassigned
RC_ERR_REASSIGN_ROUTE_NONE_REASSIGNED	No locks were reassigned
RC_ERR_CLOSE_ROUTE_INVALID_FORCE_CLOSE	Invalid force close found in locks given for route close
RC_ERR_CLOSE_ROUTE_NOT_ALL_CLOSED	Errors closing some locks
RC_ERR_FAILED_RENAME_OLD_USER_ID_BLANK	Failed to rename user. The old user ID is blank
RC_ERR_FAILED_RENAME_NEW_USER_ID_BLANK	Failed to rename user. The new user ID is blank
RC_ERR_FAILED_RENAME_USER_ID_NOT_FOUND	Failed to rename user. The old user ID to be renamed was not found in the user table
RC_ERR_FAILED_RENAME_USER_NOT_SAME_REGION	Failed to rename user. The user's region does not match the dispatcher's region
RC_ERR_FAILED_RENAME_USER_ID_NEW_USER_ID_ALREADY_EXISTS	Failed to rename user. The new user ID already exists. A user can not be renamed to an already existing user ID
RC_ERR_FAILED_RENAME_USER_ID_IS_WINDOWS_LOGON_USER	Failed to rename user. The user is a Windows authentication logon user, and the user name must be the same as the Windows logon name to allow the user to be identified
RC_ERR_FAILED_RENAME_USER_ERROR_ENCRYPTING_NEW_PASSWORD	Failed to rename user. An error occurred while attempting to encrypt the new password for the user. The password contains invalid characters
RC_ERR_FAILED_RENAME_USER_ERROR_GENERATING_TEMP_USER_ID	Failed to rename user. Failed to generate a temporary user ID to associate with references to the old user while renaming the original user
RC_ERR_FAILED_RENAME_USER_ERROR_GENERATING_TEMP_USER_KEY	Failed to rename user. Failed to generate a temporary user Key SN to associate with references to the old user while renaming the original user
RC_ERR_FAILED_RENAME_USER_ERROR_INSERT_TEMP_USER	Failed to rename user. Failed to insert a temporary user to associate with references to the old user while renaming the original user
RC_ERR_FAILED_RENAME_USER_ERROR_INSERT_PWDHISTORY	Failed to rename user. A database error occurred while attempting to insert the old user record into the user history table
RC_ERR_FAILED_RENAME_USER_ERROR_INSERT_NEW_RECORD	Failed to rename user. A database error occurred while attempting to insert the new user record into the user table
RC_ERR_FAILED_RENAME_USER_ERROR_DELETE_TEMP_RECORD	Failed to rename user. Failed to delete the temporary user associated with references to the old user while renaming the original user
RC_ERR_INVALID_PWD_REC_USER_ID	Invalid user record. The User ID has not been set
RC_ERR_USER_NOT_FOUND	User not found in user database
RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_USER_REGION	Dispatcher belongs to a local region. The dispatcher's region does not match the user's region
RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_USER_NEW_REGION	Dispatcher belongs to a local region. The dispatcher's region does not match the user's new region
RC_ERR_BANK_BRANCH_NAME_INVALID_DATA	Data for bank branch name is not valid
RC_ERR_BANK_BRANCH_DOESNT_EXIST	Bank branch doesn't exist in the database
RC_ERR_INVALID_CUSTOMERID_BLANK	Invalid customer ID Customer ID is blank
RC_ERR_FAILED_UPDATE_CUSTOMER_ENTRY	Failed to update customer entry in customer table
RC_ERR_FAILED_ADD_CUSTOMER_ID_ALREADY_EXISTS	Failed to add/rename customer. The requested customer ID already exists
RC_ERR_FAILED_ADD_CUSTOMER_ERROR_INSERT_CUSTOMER_TABLE	Failed to add new customer. A database error occurred while inserting the new customer record into the customer table
RC_ERR_FAILED_RENAME_CUSTOMER_ERROR_LOCK_TABLE	Failed to rename customer. A database error occurred while changing the original customer ID references in the lock table

RC_ERR_FAILED_RENAME_CUSTOMER_ERROR_LOG_TABLE	Failed to rename customer. A database error occurred while changing the original customer ID references in the log table
RC_ERR_FAILED_RENAME_CUSTOMER_ERROR_BANK_BRANCH_TABLE	Failed to rename customer. A database error occurred while changing the original customer ID references in the bank branch table
RC_ERR_FAILED_RENAME_CUSTOMER_ERROR_ROUTE_TABLE	Failed to rename customer. A database error occurred while changing the original customer ID references in the route table
RC_ERR_FAILED_UPDATE_CUSTOMER_ENTRY	Failed to update customer entry in customer table
RC_ERR_FAILED_ADD_CUSTOMER_ALREADY_EXISTS	Failed to add customer. The customer ID already exists
RC_ERR_DELETE_CUSTOMER_FAILED_TO_GET_COUNT_USERS_WITH_CUSTOMER	Failed to delete customer. Failed to get count of users, locks, routes, and/or bank branches assigned to the customer
RC_ERR_DELETE_CUSTOMER_STILL_HAS_ASSIGNED_USERS	The selected customer may not be deleted because it is assigned to a user, lock, route, and/or bank branch
RC_ERR_FAILED_DELETE_CUSTOMER_ENTRY	Failed to delete the customer entry from the database customer table. A database error occurred while deleting the customer record
RC_ERR_FAILED_RENAME_BANK_BRANCH_NEW_NAME_ALREADY_EXISTS	Failed to rename bank branch! The new bank branch name already exists in the bank branch table.
RC_ERR_FAILED_RENAME_BANK_BRANCH_FAILED_FIND_ORIGINAL_RECORD	Failed to rename bank branch! Failed to find the original bank branch name in the bank branch table.
RC_ERR_FAILED_RENAME_BANK_BRANCH_FAILED_INSERT_NEW_RECORD	Failed to rename bank branch! A database error occurred while inserting the new bank branch record into the bank branch table.
RC_ERR_FAILED_RENAME_BANK_BRANCH_ERROR_LOCK_TABLE	Failed to rename bank branch! A database error occurred while changing the original bank branch references in the lock table.
RC_ERR_FAILED_RENAME_BANK_BRANCH_ERROR_PWD_TABLE	Failed to rename bank branch! A database error occurred while changing the original bank branch references in the user table.
RC_ERR_FAILED_RENAME_BANK_BRANCH_ERROR_DELETE_OLD_RECORD	Failed to rename bank branch! Failed to delete the original bank branch record from the bank branch table.
RC_ERR_ACTIVATE_LOCK_BANK_INSUFFICIENT_USERS_SET	Failed to activate bank mode lock! The bank mode lock does not have enough users set up for access to the lock.
RC_ERR_SHELVES_LOCK_NO_DISPATCH_MODE_FOR_LOCK	Failed to shelve locks! The Open Mode is not one of the modes being shelved for at least one of the specified lock serial numbers.
RC_ERR_ACTIVATE_LOCK_NO_DISPATCH_MODE_FOR_LOCK	Failed to activate locks! One or more modes of a lock did not have one of the modes set for dispatch to activate the lock.
RC_ERR_FAILED_DELETE_LOCK_INSERT_INTO_HISTORY_TABLE	Failed to delete shelved lock! A database error occurred while inserting the lock into the lock history table.
RC_ERR_SHELVES_LOCK_FAILED_DELETE_BANK_USERS	Failed to shelve lock! A database error occurred while deleting the bank mode users for the lock from the user lock table.
RC_ERR_LOCK_BANK_BRANCH_NAME_NOT_FOUND	Failed to find bank branch name for lock! The bank branch name does not exist in the bank branch table. Unable to determine bank branch ID.
RC_ERR_FAILED_ADD_USERS_INVALID_LOCK_MODE	Failed to add users to the lock! An invalid lock mode was encountered.
RC_ERR_FAILED_REMOVE_USERS_INVALID_LOCK_MODE	Failed to remove users from the lock! An invalid lock mode was encountered.
RC_ERR_ADD_USERS_LOCKS_ALL_PROCESSED_NO_USERS_ADDED	All locks processed in list but no locks had users added
RC_ERR_REMOVE_USERS_LOCKS_ALL_PROCESSED_NO_USERS_REMOVED	All locks processed in list but no locks had users removed
RC_ERR_ADD_USERS_LOCKS_SOME_NO_USERS_ADDED	Some locks did not have users added in the list
RC_ERR_REMOVE_USERS_LOCKS_SOME_NO_USERS_REMOVED	Some locks did not have users removed in the list.
RC_ERR_FAILED_ADD_USERS_LOCKS_NONE_SPECIFIED_TO_ADD	Failed to add users to the lock! No users are specified to add to the lock.
RC_ERR_FAILED_REMOVE_USERS_LOCKS_NONE_SPECIFIED_TO_REMOVE	Failed to remove users from the lock! No users are specified to remove from the lock.
RC_ERR_ADD_USERS_LOCKS_DATA_CORRUPT	Failed to add users to the lock! Data passed for adding users to the lock is corrupt or invalid.
RC_ERR_ADD_USERS_LOCKS_LOCK_DOES_NOT_EXIST	Failed to add users to the lock! Lock does not exist.
RC_ERR_ADD_USERS_LOCKS_LOCK_NOT_ACTIVE	Failed to add users to the lock! Lock is not active.
RC_ERR_ADD_USERS_LOCKS_NOT_AUTHORIZED_LOCK_REGION	Failed to add users to the lock! The current authorization does not have access to locks in other regions.
RC_ERR_ADD_USERS_LOCKS_FAILED_TO_GET_LOCK_CURRENT_USERS	Failed to add users to the lock! Failed to get the current users for the lock.
RC_ERR_REMOVE_USERS_LOCKS_DATA_CORRUPT	Failed to remove users from the lock! Data passed for removing users from the lock is corrupt or invalid.
RC_ERR_REMOVE_USERS_LOCKS_LOCK_DOES_NOT_EXIST	Failed to remove users from the lock! Lock does not exist.

RC_ERR_REMOVE_USERS_LOCKS_LOCK_NOT_ACTIVE	Failed to remove users from the lock! Lock is not active.
RC_ERR_REMOVE_USERS_LOCKS_NOT_AUTHORIZED_LOCK_REGION	Failed to remove users from the lock! The current authorization does not have access to locks in other regions.
RC_ERR_REMOVE_USERS_LOCKS_FAILED_TO_GET_LOCK_CURRENT_USERS	Failed to remove users from the lock! Failed to get the current users for the lock.
RC_ERR_ACTIVATE_LOCK_BANK_TOO_MANY_USERS_SET	Failed to activate bank mode lock! Too many users have been set up for access to the lock.
RC_ERR_ADD_USERS_LOCKS_USER_ALREADY_ASSIGNED_TO_LOCK	Failed to add users to the lock! User being added is already assigned to the lock.
RC_ERR_ADD_USERS_LOCKS_TOO_MANY_USERS	Failed to add users to the lock! Too many users are being assigned to the lock.
RC_ERR_ADD_USERS_LOCKS_NOT_SAME_BANK_BRANCH	Failed to add users to the lock! The user's bank branch name does not match the lock bank branch name.
RC_ERR_FAILED_GET_DISPATCHER_REGION	Failed to get assigned region for dispatcher authorization!
RC_ERR_ADD_USERS_LOCKS_NOT_SAME_REGION	Failed to add users to the lock! The user's region does not match the lock's region.
RC_ERR_ADD_USERS_LOCKS_BANK_BRANCH_NAME_NOT_SET	Failed to add users to the lock! The lock bank branch name is not set.
RC_ERR_ADD_USERS_LOCKS_BANK_NO_USERS_SET	Failed to add users to the lock! No users have been set to add to the lock.
RC_ERR_FAILED_ADD_USERS_NO_KEY_FOUND_IN_READER	Failed to add users to the lock! Unable to locate a key in the key reader. A supervisor audit key is needed.
RC_ERR_FAILED_ADD_USERS_INCORRECT_KEY_TYPE	Failed to add users to the lock! The key in the key reader is not the correct type of key. A supervisor audit key is needed.
RC_ERR_FAILED_REMOVE_USERS_NO_KEY_FOUND_IN_READER	Failed to remove users from the lock! Unable to locate a key in the key reader. A supervisor audit key is needed.
RC_ERR_FAILED_REMOVE_USERS_INCORRECT_KEY_TYPE	Failed to remove users from the lock! The key in the key reader is not the correct type of key. A supervisor audit key is needed.
RC_ERR_REMOVE_USERS_LOCKS_USER_NOT_ASSIGNED_TO_LOCK	Failed to remove users from the lock! The user being removed is not assigned to the lock.
RC_ERR_REMOVE_USERS_LOCKS_TOO_FEW_USERS_REMAINING	Failed to remove users from the lock! The lock will have too few users remaining at the lock if the specified users are removed.
RC_ERR_REMOVE_USERS_LOCKS_BANK_BRANCH_NAME_NOT_SET	Failed to remove users from the lock! The lock bank branch name is not set.
RC_ERR_REMOVE_USERS_LOCKS_BANK_NO_USERS_SET	Failed to remove users from the lock! No users have been set to remove from the lock.
RC_ERR_FAILED_DELETE_USER_LOCK_ENTRY	Failed to delete user lock entry for bank mode user assigned to lock! A database error occurred while deleting the user lock entry.
RC_ERR_ACTIVATE_LOCK_BANK_USER_NOT_SAME_REGION	Failed to activate bank mode lock! The bank mode user's region does not match the lock's region.
RC_ERR_ADD_USERS_LOCKS_NOT_BANK_MODE_USER	Failed to add users to the lock! The lock user being added is not a bank mode user.
RC_ERR_ACTIVATE_LOCK_NOT_BANK_MODE_USER	Failed to activate bank mode lock! The lock user being added for lock activation is not a bank mode user.
RC_ERR_FORCE_DELETE_LOCK_FAILED_DELETE_BANK_USERS	Failed to shelve lock! A database error occurred while deleting the bank mode users for the lock from the user lock table.
RC_ERR_FAILED_RENAME_USER_NOT_SAME_REGION	Failed to rename user! The user's region does not match the dispatcher's region.
RC_ERR_INVALID_USER_LOCK_HISTORY_DATE_VALUE	Invalid user lock history record for bank mode users. The date value is not set.
RC_ERR_FAILED_ADD_CUSTOMER_ALREADY_EXISTS	Failed to add customer! The customer ID already exists!
RC_ERR_INVALID_LOCK_REC_LOCKNAME	Invalid lock record. The lock name is blank or contains unprintable characters.
RC_ERR_INVALID_LOCK_REC_SERIALNUM	Invalid lock record. The lock serial number is not set.
RC_ERR_INVALID_LOCK_REC_LOCKMODE	Invalid lock record. The lock mode is not set to either FLM, Route, or Bank mode.
RC_ERR_INVALID_LOCK_REC_RECTYPE	Invalid lock record. The lock record type is not set to either active, being installed, pending shelve, shelved, or being replaced.
RC_ERR_INVALID_LOCK_REC_FLM_ROUTE	Invalid lock record. The lock record indicates an flm lock set for route dispatch.
RC_ERR_INVALID_LOCK_REC_SLMCALL_ROUTE	Invalid lock record. The lock record indicates a route lock set for second line maint call.
RC_ERR_INVALID_LOCK_REC_UNASSIGNEDCALL	Invalid lock record. The lock record indicates an invalid unassigned call.
RC_ERR_INVALID_LOCK_REC_OPENS_ROUTEISS	Invalid lock record. The lock record indicates an invalid single open with route dispatch.
RC_ERR_FAILED_ADD_USER_CUSTOMER_ID_DOES_NOT_EXIST	Failed to add user. The customer ID specified for the user does not exist in the customer table.

RC_ERR_FAILED_ADD_USER_BANK_BRANCH_DOES_NOT_EXIST	Failed to add user. The bank branch name specified for the user does not exist in the bank branch table.
RC_ERR_FAILED_ADD_USER_BANK_MODE_USER_ID_FOR_BRANCH_ALREADY_EXISTS	Failed to add user. The bank mode user ID and bank branch name specified for the user already exists.
RC_ERR_ROLE_DELETE_FAILED_ROLE_IN_USE	Can't delete role - users are assigned to it
RC_ERR_DELETE_CUSTOMER_FAILED_TO_GET_COUNT_USERS_WITH_CUSTOMER	Failed to delete customer. Failed to get count of users/locks/routes/bank branches still assigned to customer.
RC_ERR_DELETE_CUSTOMER_STILL_HAS_ASSIGNED_USERS	Customer being deleted still has assigned users/locks/routes/bank branches.
RC_ERR_FAILED_RENAME_USER_ID_IS_WINDOWS_LOGON_USER	Failed to rename user. The user is a Windows authentication logon user, and the user name must be the same as the Windows logon name to allow the user to be identified.
RC_ERR_FAILED_RENAME_USER_ERROR_GENERATING_TEMP_USER_ID	Failed to rename user. Failed to generate a temporary user ID to associate with references to the old user while renaming the original user.
RC_ERR_FAILED_RENAME_USER_ERROR_GENERATING_TEMP_USER_KEY	Failed to rename user. Failed to generate a temporary user Key SN to associate with references to the old user while renaming the original user.
RC_ERR_FAILED_RENAME_USER_ERROR_INSERT_TEMP_USER	Failed to rename user. Failed to insert a temporary user to associate with references to the old user while renaming the original user.
RC_ERR_FAILED_RENAME_USER_ERROR_DELETE_TEMP_RECORD	Failed to rename user. Failed to delete the temporary user associated with references to the old user while renaming the original user.
RC_ERR_DELETE_LOCK_FAILED_DELETE_COLLECTION_LOCK_ENTRIES	Failed to delete lock. A database error occurred while removing entries for the lock from the collection lock table.
RC_ERR_INVALID_CUSTOMERID_BLANK	Invalid customer ID. Customer ID is blank.
RC_ERR_FAILED_OPEN_TABLE	Failed to open table. A database error occurred.
RC_ERR_FAILED_GET_RECORD_COUNT	Failed to get record count for current table given search parameter. A database error occurred.
RC_ERR_DISPATCHER_NOT_FOUND	Failed to find the dispatcher or logon user in the database user table! The dispatcher ID is not in the database user table.
RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_LOCK_REGION	Dispatcher belongs to a local region. The dispatcher's region does not match the lock's region.
RC_ERR_FLM1_BLANK	First RSP/FLM ID is blank
RC_ERR_FLM2_BLANK	Second RSP/FLM ID is blank
RC_ERR_LOCK_INVALID_SEQ	Lock route sequence number is out of range.
RC_ERR_FORCE_CLOSE_FAILED_NOT_SKIPPED_SEQUENCE	Failed to force close lock. Force close can only be applied to locks open on a skipped route sequence.
RC_ERR_INVALID_GROUP_BLANK	Lock group name contains embedded blanks or is blank.
RC_ERR_INVALID_GROUP_NUMBER_CHARACTERS	Lock group name does not contain 2, 4, or 6 characters
RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_LOCK_NEW_REGION	Dispatcher belongs to a local region. The dispatcher's region does not match the lock's new region.
RC_ERR_INVALID_NEW_LOCKNAME	The new lock name is blank.
RC_ERR_FAILED_RENAME_OLD_USER_ID_BLANK	Failed to rename user. The old user ID is blank.
RC_ERR_FAILED_RENAME_NEW_USER_ID_BLANK	Failed to rename user. The new user ID is blank.
RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_USER_REGION	Dispatcher belongs to a local region. The dispatcher's region does not match the user's region.
RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_USER_NEW_REGION	Dispatcher belongs to a local region. The dispatcher's region does not match the user's new region.
RC_ERR_BANK_BRANCH_NAME_INVALID_DATA	Data for bank branch name is not valid.
RC_ERR_BANK_BRANCH_DOESNT_EXIST	Bank branch doesn't exist in the database.
RC_ERR_INVALID_ROUTE_NAME_BLANK	Invalid route name. Route name is blank.
RC_ERR_FAILED_ADD_ROUTE_ALREADY_EXISTS	Failed to add route! Route name already exists
RC_ERR_REGION_INVALID_DATA	Data for region is not valid. Region is blank.
RC_ERR_REGION_DOESNT_EXIST	Region does not exist in the database.
RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_ROUTE_REGION	Dispatcher belongs to a local region. The dispatcher's region does not match the route's region.
RC_ERR_DISPATCHER_REGION_DOES_NOT_MATCH_ROUTE_NEW_REGION	Dispatcher belongs to a local region. The dispatcher's region does not match the route's new region.
RC_ERR_INPUT_FILE_NO_ROUTE_LOCKS	The input transaction file does not contain any route locks.
RC_ERR_INVALID_LOCKNAME	Invalid lock name. The lock name is blank.
RC_ERR_FAILED_ADD_ROUTE_LOCK_ALREADY_EXISTS	Error adding route lock record. Route lock already exists.

RC_ERR_LOCK_ROUTE_REGION_MISMATCH	Lock does not have the same region as the route.
RC_PARTIAL_OK	Partial Success
RC_NOT_OK	Failure
RC_ERR_ROUTE_LOCK_NOT_FOUND	Route lock not found in route lock table
RC_ERR_ROUTE_LOCK_FAILED_DELETE	Failed to delete record in route lock table
RC_ERR_INVALID_ROUTE_SUPPORT_SETTING	Invalid Route Support Setting.
RC_ERR_CLOSE_ROUTE_INVALID_FORCE_CLOSE	Invalid force close found in locks given for route close.
RC_ERR_FAILED_VALIDATE_FILE	Failed to validate file against the given XML schema.
RC_ERR_UNABLE_TO_ACTIVATE_GEN2_LOCK_LEGACY_PCIO	Unable to activate Cencon Gen 2 locks with serial numbers above 999999 using a legacy Cencon PCIO device. A Cencon USB Key Box is needed.
RC_ERR_UNABLE_TO_SHELVES_GEN2_LOCK_LEGACY_PCIO	Unable to shelve Cencon Gen 2 locks that have been fully activated with Gen 2 security data using a legacy Cencon PCIO device. A Cencon USB Key Box is needed.
RC_ERR_UNABLE_TO_ADD_DELETE_USERS_GEN2_LOCK_LEGACY_PCIO	Unable to add users to or delete users from Cencon Gen 2 locks that have been fully activated with Gen 2 security data using a legacy Cencon PCIO device. A Cencon USB Key Box is needed.
RC_ERR_FAILED_TO_GET_SYSTEM_NETWORK_ADDRESS_INFORMATION	Failed to get the host system network address information!
RC_ERR_FAILED_TO_DECRYPT_DATA	Failed to decrypt data! The data may have been corrupted, or the Cencon USB Key Box encryption data may be in error.
RC_ERR_FAILED_TO_ENCRYPT_DATA	Failed to encrypt data! The data may have been corrupted, or the Cencon USB Key Box encryption data may be in error.
RC_ERR_DISPATCH_ROUTE_FAILED_READ_ROUTE_DATABASE	Failed to read route from database.
RC_ERR_READ_SAKEY_INIT_ADD_INVALID_DATA_NUMBER_USERS	Failed to read bank mode activate / add users key entry! An invalid number of bank mode users was indicated on the key.
RC_ERR_READ_SAKEY_INVALID_DATA_DID_NOT_VALIDATE	Data read from SA key did not validate! The data is invalid, corrupt, or has been tampered with.
RC_ERR_RETRIEVE_BANK_USERS_INVALID_KEY	The key was not initialized for retrieving bank users.
RC_ERR_RETRIEVE_BANK_USERS_KEY_NOT_USED	The key was initialized for retrieving bank users but does not contain any user info.
RC_ERR_GEN2_UPDATE_ACTIVATE_LOCK_NOT_ACTIVE	The Gen 2 lock being updated from Gen 1 to Gen 2 activation is not an active lock.
RC_ERR_GEN2_UPDATE_ACTIVATE_NOT_GEN2_LOCK	The Gen 2 lock being updated from Gen 1 to Gen 2 activation is not a Gen 2 lock.
RC_ERR_GEN2_UPDATE_ACTIVATE_ALREADY_ACTIVATED_AS_GEN2	The Gen 2 lock being updated from Gen 1 to Gen 2 activation has already been activated as a Gen 2 lock.
RC_ERR_GEN2_UPDATE_ACTIVATE_LOCK_FAILED_INSERT_INTO_HISTORY_TABLE	The Gen 2 lock being updated from Gen 1 to Gen 2 activation failed to insert into the lock history table.
RC_ERR_GEN2_UPDATE_ACTIVATE_LOCK_FAILED_INSERT_INTO_USER_LOCK_HISTORY_TABLE	The Gen 2 lock being updated from Gen 1 to Gen 2 activation failed to insert users into the user lock history table.
RC_ERR_GEN2_UPDATE_ACTIVATE_IS_DISPATCHED_MUST_BE_CLOSED	The Gen 2 lock being updated from Gen 1 to Gen 2 activation is dispatched. The lock needs to be closed to update the activation.
RC_ERR_GEN2_LOCK_NOT_SUPPORTED_BY_CURRENT_PCIO_DEVICE	The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.
RC_ERR_BANK_USER_ID_OUT_OF_RANGE_FOR_GEN1_LOCK	The assigned bank user ID for the user being added is out of range for a Cencon Gen 1 lock. The Cencon Gen 1 lock can support a range of 01 - 79 for bank mode user ids.
RC_ERR_GEN2_LOCK_PCIO_SUPPORT_NOT_AVAILABLE_HIGHER_BANK_USER_IDS	The current Cencon PCIO device does not support the Cencon Gen 2 lock wider range of bank user IDs. The Cencon Gen 1 lock can support a range of 01 - 79 for bank mode user ids.
RC_ERR_WRITING_CLOCK_SET_HEADER	Error writing the 1922 Clock Set Key header data.
RC_ERR_READ_USER_KEY_INVALID_DATA_DID_NOT_VALIDATE	Data read from user key did not validate! The data is invalid, corrupt, or has been tampered with.
RC_ERR_READ_USER_KEY_INVALID_DATA_DID_NOT_VALIDATE_AUDITS	Data read from user key audits did not validate! The audit data is invalid, corrupt, or has been tampered with.
RC_ERR_READ_USER_KEY_INVALID_DATA_AUDITS_BAD_CRC	Data read from user key audits is corrupt! The audit data is invalid, corrupt, or has been tampered with.
RC_ERR_DISPATCH_LOCK_RESYNC_IN_PROGRESS	Failed to dispatch lock! The lock is currently being resynchronized with the PC. You will need to complete or cancel the resynchronization operation before doing dispatching the lock.
RC_ERR_ACTIVATE_LOCK_SERIAL_NOT_GEN_2_LOCK	Failed to activate lock by serial connection! The indicated lock serial number to activate is not a Cencon Gen 2 lock.

RC_ERR_ACTIVATE_LOCK_SERIAL_PCIO_DEVICE_CANT_SUPPORT_GEN2	Failed to activate lock by serial connection! The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.
RC_ERR_ACTIVATE_LOCK_SERIAL_LOCK_NOT_RESPONDING	Failed to activate lock by serial connection! The lock is not responding across the serial connection.
RC_ERR_ACTIVATE_LOCK_SERIAL_FAILED_TO_GET_SERIAL_NUMBER	Failed to activate lock by serial connection! Failed to get the lock serial number from across the serial connection.
RC_ERR_ACTIVATE_LOCK_SERIAL_CONNECTED_LOCK_DOESNT_MATCH_LOCK_TO_BE_ACTIVATED	Failed to activate lock by serial connection! The connected lock is not the one expected for activation. A different lock is connected than the serial number set up to be activated.
RC_ERR_SHELVING_LOCK_SERIAL_NOT_GEN_2_LOCK	Failed to shelve lock by serial connection! The indicated lock serial number to shelve is not a Cencon Gen 2 lock.
RC_ERR_SHELVING_LOCK_SERIAL_PCIO_DEVICE_CANT_SUPPORT_GEN2	Failed to shelve lock by serial connection! The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.
RC_ERR_SHELVING_LOCK_SERIAL_LOCK_NOT_RESPONDING	Failed to shelve lock by serial connection! The lock is not responding across the serial connection.
RC_ERR_SHELVING_LOCK_SERIAL_FAILED_TO_GET_SERIAL_NUMBER	Failed to shelve lock by serial connection! Failed to get the lock serial number from across the serial connection.
RC_ERR_SHELVING_LOCK_SERIAL_CONNECTED_LOCK_DOESNT_MATCH_LOCK_TO_BE_SHELVED	Failed to shelve lock by serial connection! The connected lock is not the one expected for being shelved. A different lock is connected than the serial number set up to be shelved.
RC_ERR_ADD_USERS_LOCK_SERIAL_NOT_GEN_2_LOCK	Failed to add users to lock by serial connection! The indicated lock serial number to shelve is not a Cencon Gen 2 lock.
RC_ERR_ADD_USERS_LOCK_SERIAL_PCIO_DEVICE_CANT_SUPPORT_GEN2	Failed to add users to lock by serial connection! The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.
RC_ERR_ADD_USERS_LOCK_SERIAL_LOCK_NOT_RESPONDING	Failed to add users to lock by serial connection! The lock is not responding across the serial connection.
RC_ERR_ADD_USERS_LOCK_SERIAL_FAILED_TO_GET_SERIAL_NUMBER	Failed to add users to lock by serial connection! Failed to get the lock serial number from across the serial connection.
RC_ERR_ADD_USERS_LOCK_SERIAL_CONNECTED_LOCK_DOESNT_MATCH_LOCK	Failed to add users to lock by serial connection! The connected lock is not the one expected for having users added. A different lock is connected than the serial number set up to have users added.
RC_ERR_REMOVE_USERS_LOCK_SERIAL_NOT_GEN_2_LOCK	Failed to remove users from lock by serial connection! The indicated lock serial number to shelve is not a Cencon Gen 2 lock.
RC_ERR_REMOVE_USERS_LOCK_SERIAL_PCIO_DEVICE_CANT_SUPPORT_GEN2	Failed to remove users from lock by serial connection! The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.
RC_ERR_REMOVE_USERS_LOCK_SERIAL_LOCK_NOT_RESPONDING	Failed to remove users from lock by serial connection! The lock is not responding across the serial connection.
RC_ERR_REMOVE_USERS_LOCK_SERIAL_FAILED_TO_GET_SERIAL_NUMBER	Failed to remove users from lock by serial connection! Failed to get the lock serial number from across the serial connection.
RC_ERR_REMOVE_USERS_LOCK_SERIAL_CONNECTED_LOCK_DOESNT_MATCH_LOCK	Failed to remove users from lock by serial connection! The connected lock is not the one expected for having users removed. A different lock is connected than the serial number set up to have users removed.
RC_ERR_ADD_USERS_LOCK_SERIAL_OPERATION_FAILED_AT_LOCK	Failed to add users to lock by serial connection! All of the add user operations failed at the lock.
RC_ERR_REMOVE_USERS_LOCK_SERIAL_OPERATION_FAILED_AT_LOCK	Failed to remove users from lock by serial connection! All of the remove user operations failed at the lock.
RC_ERR_FAILED_DELETE_ASSIGNED_TO_BANK_LOCK	User cannot be deleted from password table. User is assigned to bank lock(s).
RC_ERR_SET_TZDSTTABLE_LOCK_DATA_CORRUPT	Failed to set time zone / daylight savings time transition table at lock by serial connection! Data given for lock to be updated is corrupt or invalid.
RC_ERR_SET_TZDSTTABLE_LOCK_SERIAL_NOT_GEN_2_LOCK	Failed to set time zone / daylight savings time transition table at lock by serial connection! The indicated lock serial number is not a Cencon Gen 2 lock.
RC_ERR_SET_TZDSTTABLE_LOCK_SERIAL_PCIO_DEVICE_CANT_SUPPORT_GEN2	Failed to set time zone / daylight savings time transition table at lock by serial connection! The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.

RC_ERR_SET_TZDSTTABLE_LOCK_SERIAL_LOCK_NOT_RESPONDING	Failed to set time zone / daylight savings time transition table at lock by serial connection! The lock is not responding across the serial connection.
RC_ERR_SET_TZDSTTABLE_LOCK_SERIAL_FAILED_TO_GET_SERIAL_NUMBER	Failed to set time zone / daylight savings time transition table at lock by serial connection! Failed to get the lock serial number from across the serial connection.
RC_ERR_SET_TZDSTTABLE_LOCK_SERIAL_CONNECTED_LOCK_DOESNT_MATCH_LOCK_TO_BE_UPDATED	Failed to set time zone / daylight savings time transition table at lock by serial connection! The connected lock is not the one expected to be updated. A different lock is connected than the serial number set up to update the TZ/DST table.
RC_ERR_SET_ACCESS_LOCK_DATA_CORRUPT	Failed to set access configuration at lock by serial connection! Data given for lock to be updated is corrupt or invalid.
RC_ERR_SET_ACCESS_LOCK_SERIAL_NOT_GEN_2_LOCK	Failed to set access configuration at lock by serial connection! The indicated lock serial number is not a Cencon Gen 2 lock.
RC_ERR_SET_ACCESS_LOCK_SERIAL_PCIO_DEVICE_CANT_SUPPORT_GEN2	Failed to set access configuration at lock by serial connection! The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.
RC_ERR_SET_ACCESS_LOCK_SERIAL_LOCK_NOT_RESPONDING	Failed to set access configuration at lock by serial connection! The lock is not responding across the serial connection.
RC_ERR_SET_ACCESS_LOCK_SERIAL_FAILED_TO_GET_SERIAL_NUMBER	Failed to set access configuration at lock by serial connection! Failed to get the lock serial number from across the serial connection.
RC_ERR_SET_ACCESS_LOCK_SERIAL_CONNECTED_LOCK_DOESNT_MATCH_LOCK_TO_BE_UPDATED	Failed to set access configuration at lock by serial connection! The connected lock is not the one expected to be updated. A different lock is connected than the serial number set up to update the access configuration.
RC_ERR_SET_ACCESS_LOCK_SERIAL_LOCK_IS_DISPATCHED	Failed to set access configuration at lock by serial connection! The lock is currently dispatched in the Cencon database. Changing between single and dual mode will invalidate the dispatch. Close the dispatched call to the lock first.
RC_ERR_SET_OPEN_DELAY_LOCK_DATA_CORRUPT	Failed to set open delay and window duration at lock by serial connection! Data given for lock to be updated is corrupt or invalid.
RC_ERR_SET_OPEN_DELAY_LOCK_SERIAL_NOT_GEN_2_LOCK	Failed to set open delay and window duration at lock by serial connection! The indicated lock serial number is not a Cencon Gen 2 lock.
RC_ERR_SET_OPEN_DELAY_LOCK_SERIAL_PCIO_DEVICE_CANT_SUPPORT_GEN2	Failed to set open delay and window duration at lock by serial connection! The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.
RC_ERR_SET_OPEN_DELAY_LOCK_SERIAL_LOCK_NOT_RESPONDING	Failed to set open delay and window duration at lock by serial connection! The lock is not responding across the serial connection.
RC_ERR_SET_OPEN_DELAY_LOCK_SERIAL_FAILED_TO_GET_SERIAL_NUMBER	Failed to set open delay and window duration at lock by serial connection! Failed to get the lock serial number from across the serial connection.
RC_ERR_SET_OPEN_DELAY_LOCK_SERIAL_CONNECTED_LOCK_DOESNT_MATCH_LOCK_TO_BE_UPDATED	Failed to set open delay and window duration at lock by serial connection! The connected lock is not the one expected to be updated. A different lock is connected than the serial number set up to update the open delay and window duration.
RC_ERR_SHELVE_LOCK_ALREADY_SHELVED	Failed to shelve lock! The lock is already shelved.
RC_ERR_FORCE_SHELVE_OPEN_LOCK_FAILED_FIND_FLM1	Failed to force shelve of open lock! Failed to find user 1 from active log record.
RC_ERR_FORCE_SHELVE_OPEN_LOCK_FAILED_UPDATE_FLM1	Failed to force shelve of open lock! Failed to update user 1 from active log record.
RC_ERR_FORCE_SHELVE_OPEN_LOCK_FAILED_FIND_FLM2	Failed to force shelve of open lock! Failed to find user 2 from active log record.
RC_ERR_FORCE_SHELVE_OPEN_LOCK_FAILED_UPDATE_FLM2	Failed to force shelve of open lock! Failed to update user 2 from active log record.
RC_ERR_FORCE_SHELVE_LOCK_FAILED_CLOSE_OUT_LOCK	Failed to force shelve of open lock! Failed to close out lock.
RC_ERR_SET_ACCESS_LOCK_SERIAL_FAILED_UPDATE_LOCK_IN_DATABASE	Failed to set access configuration at lock by serial connection! Failed to update lock record in Cencon database.
RC_ERR_SET_OPEN_DELAY_LOCK_SERIAL_FAILED_UPDATE_LOCK_IN_DATABASE	Failed to set open delay and window duration at lock by serial connection! Failed to update lock record in Cencon database.
RC_ERR_RESYNC_DISPATCHING_LOCK_DATA_CORRUPT	Failed to resynchronize dispatching of Cencon database lock entry by serial connection! Data given for lock to be updated is corrupt or invalid.

RC_ERR_RESYNC_DISPATCHING_LOCK_SERIAL_NOT_GEN_2_LOCK	Failed to resynchronize dispatching of Cencon database lock entry by serial connection! The indicated lock serial number is not a Cencon Gen 2 lock.
RC_ERR_RESYNC_DISPATCHING_LOCK_SERIAL_PCIO_DEVICE_CANT_SUPPORT_GEN2	Failed to resynchronize dispatching of Cencon database lock entry by serial connection! The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.
RC_ERR_RESYNC_DISPATCHING_LOCK_SERIAL_LOCK_NOT_RESPONDING	Failed to resynchronize dispatching of Cencon database lock entry by serial connection! The lock is not responding across the serial connection.
RC_ERR_RESYNC_DISPATCHING_LOCK_SERIAL_FAILED_TO_GET_SERIAL_NUMBER	Failed to resynchronize dispatching of Cencon database lock entry by serial connection! Failed to get the lock serial number from across the serial connection.
RC_ERR_RESYNC_DISPATCHING_LOCK_SERIAL_CONNECTED_LOCK_DOESNT_MATCH_LOCK_TO_UPDATE	Failed to resynchronize dispatching of Cencon database lock entry by serial connection! The connected lock is not the one expected to be updated. A different lock is connected than the serial number set up to resynchronize dispatching with.
RC_ERR_RESYNC_DISPATCHING_LOCK_SERIAL_LOCK_IS_DISPATCHED	Failed to resynchronize dispatching of Cencon database lock entry by serial connection! The lock is dispatched in the database. Resynchronizing the dispatching while a call is dispatched will invalidate the dispatched call.
RC_ERR_RESYNC_DISPATCHING_LOCK_SERIAL_LOCK_IS_NOT_ACTIVATED_AS_GEN2	Failed to resynchronize dispatching of Cencon database lock entry by serial connection! The lock is not activated as a Cencon Gen 2 lock. It is activated in compatibility mode for Gen 1, or is not a Gen 2 lock.
RC_ERR_RESYNC_DISPATCHING_LOCK_SERIAL_LOCK_IS_NOT_ACTIVE_IN_DATABASE	Failed to resynchronize dispatching of Cencon database lock entry by serial connection! The lock is not active (shelved) in the Cencon database.
RC_ERR_RESYNC_DISPATCHING_LOCK_SERIAL_FAILED_UPDATE_LOCK_IN_DATABASE	Failed to resynchronize dispatching of Cencon database lock entry by serial connection! Failed to update lock record in Cencon database.
RC_ERR_READ_USER_KEY_INVALID_DATA_TIME_WINDOWS_BAD_CRC	Data read from user key time window configuration is corrupt! The user key time window data is invalid, corrupt, or has been tampered with.
RC_ERR_RESYNC_BANK_USERS_LOCK_DATA_CORRUPT	Failed to resynchronize bank mode user table of Cencon database lock entry! Data given for lock to be updated is corrupt or invalid.
RC_ERR_RESYNC_BANK_USERS_LOCK_SERIAL_NOT_GEN_2_LOCK	Failed to resynchronize bank mode user table of Cencon database lock entry! The indicated lock serial number is not a Cencon Gen 2 lock.
RC_ERR_RESYNC_BANK_USERS_LOCK_SERIAL_LOCK_IS_NOT_ACTIVATED_AS_GEN2	Failed to resynchronize bank mode user table of Cencon database lock entry! The lock is not activated as a Cencon Gen 2 lock. It is activated in compatibility mode for Gen 1, or is not a Gen 2 lock.
RC_ERR_RESYNC_BANK_USERS_LOCK_SERIAL_LOCK_IS_NOT_ACTIVE_IN_DATABASE	Failed to resynchronize bank mode user table of Cencon database lock entry! The lock is not active (shelved) in the Cencon database.
RC_ERR_RESYNC_BANK_USERS_LOCK_SERIAL_LOCK_FAILED_READ_CURRENT_BANK_USERS	Failed to resynchronize bank mode user table of Cencon database lock entry! An error occurred trying to read the current user table for the bank mode lock from the Cencon database.
RC_ERR_RESYNC_BANK_USERS_LOCK_SERIAL_LOCK_FAILED_READ_USERS_FOR_LOCK	Failed to resynchronize bank mode user table of Cencon database lock entry! An error occurred trying to look up data from the Cencon database on the users read from the lock.
RC_ERR_FAILED_FIND_BANK_MODE_USER	Failed to find bank mode user in Cencon database.
RC_ERR_USER_FOUND_IS_NOT_BANK_MODE_USER	Failed to find bank mode user. The matching user found is not a bank mode user.
RC_ERR_CLOSE_LOCK_DATA_CORRUPT	Failed to close dispatched call to Cencon lock by serial connection! Data given for lock to be closed is corrupt or invalid.
RC_ERR_CLOSE_LOCK_SERIAL_NOT_GEN_2_LOCK	Failed to close dispatched call to Cencon lock by serial connection! The indicated lock serial number is not a Cencon Gen 2 lock.
RC_ERR_CLOSE_LOCK_SERIAL_PCIO_DEVICE_CANT_SUPPORT_GEN2	Failed to close dispatched call to Cencon lock by serial connection! The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_NOT_RESPONDING	Failed to close dispatched call to Cencon lock by serial connection! The lock is not responding across the serial connection.

RC_ERR_CLOSE_LOCK_SERIAL_FAILED_TO_GET_SERIAL_NUMBER	Failed to close dispatched call to Cencon lock by serial connection! Failed to get the lock serial number from across the serial connection.
RC_ERR_CLOSE_LOCK_SERIAL_CONNECTED_LOCK_DOESNT_MATCH_LOCK_TO_BE_CLOSED	Failed to close dispatched call to Cencon lock by serial connection! The connected lock is not the one expected to be closed. A different lock is connected than the serial number set up to be closed.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_IS_NOT_DISPATCHED	Failed to close dispatched call to Cencon lock by serial connection! The lock is not currently dispatched in the Cencon database.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_DISPATCHED_CALL_NOT_OPENED_LOCK_YET	Failed to close dispatched call to Cencon lock by serial connection! The call dispatched to open the lock has not been used to open the lock yet.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_BOLT_RETRACTED	Failed to close dispatched call to Cencon lock by serial connection! The lock bolt is currently retracted.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_MODE_NOT_ACTIVE	Failed to close dispatched call to Cencon lock by serial connection! The lock mode being closed is not active on the lock.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_MODE_DUAL_ACCESS_SETTING_MISMATCH	Failed to close dispatched call to Cencon lock by serial connection! The lock single/dual user access configuration is mismatched with the Cencon database lock entry.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_DOOR_SENSOR_INDICATES_CONTAINER_OPEN	Failed to close dispatched call to Cencon lock by serial connection! The connected door sensor indicates the container door is open.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_CHANGE_KEY_INSERTED	Failed to close dispatched call to Cencon lock by serial connection! The change key is inserted in the back of the lock.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_SEAL_COUNT_BEHIND_HOST_SYSTEM	Failed to close dispatched call to Cencon lock by serial connection! The lock seal count is behind the host system. The Cencon database and the lock are out of synchronization for dispatching.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_SEAL_COUNT_AHEAD_OF_HOST_SYSTEM	Failed to close dispatched call to Cencon lock by serial connection! The lock seal count is ahead the host system. The Cencon database and the lock are out of synchronization for dispatching.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_FAILED_OPEN_QUERY_LOG_TABLE	Failed to close dispatched call to Cencon lock by serial connection! Failed to open query of the active lock log table for dispatches to the lock being closed.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_NO_ACTIVE_LOG_RECORDS_FOUND_FOR_DISPATCH	Failed to close dispatched call to Cencon lock by serial connection! No active lock log records for dispatches to the lock being closed were found. There is possible data corruption with the Cencon database active log table data.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_TOO_MANY_ACTIVE_LOG_RECORDS_FOUND_FOR_DISPATCH	Failed to close dispatched call to Cencon lock by serial connection! Too many active lock log records for dispatches to the lock being closed were found. There is possible data corruption with the Cencon database active log table data.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_TOO_FEW_ACTIVE_LOG_RECORDS_FOUND_FOR_DISPATCH	Failed to close dispatched call to Cencon lock by serial connection! Too few active lock log records for dispatches to the lock being closed were found. There is possible data corruption with the Cencon database active log table data.
RC_ERR_CLOSE_LOCK_SERIAL_OPENING_FLM1_NOT_FOUND	Failed to close dispatched call to Cencon lock by serial connection! Failed to find the first user who opened the lock in the Cencon database.
RC_ERR_CLOSE_LOCK_SERIAL_OPENING_FLMBOTH_NOT_FOUND	Failed to close dispatched call to Cencon lock by serial connection! Failed to find both users who opened the lock in the Cencon database.
RC_ERR_CLOSE_LOCK_SERIAL_OPENING_FLM2_NOT_FOUND	Failed to close dispatched call to Cencon lock by serial connection! Failed to find the second user who opened the lock in the Cencon database.
RC_ERR_CLOSE_LOCK_SERIAL_DISPATCHED_FLM1_NOT_FOUND	Failed to close dispatched call to Cencon lock by serial connection! Failed to find the first user who was dispatched to the lock in the Cencon database.
RC_ERR_CLOSE_LOCK_SERIAL_DISPATCHED_FLMBOTH_NOT_FOUND	Failed to close dispatched call to Cencon lock by serial connection! Failed to find both users who were dispatched to the lock in the Cencon database.
RC_ERR_CLOSE_LOCK_SERIAL_DISPATCHED_FLM2_NOT_FOUND	Failed to close dispatched call to Cencon lock by serial connection! Failed to find the second user who was dispatched to the lock in the Cencon database.
RC_ERR_CLOSE_LOCK_SERIAL_USER_DISPATCHED_DOESNT_MATCH_USER_OPENED	Failed to close dispatched call to Cencon lock by serial connection! The user(s) who opened the lock do not match the users dispatched to the lock.

RC_ERR_CLOSE_LOCK_SERIAL_ROUTE_DISPATCHED_FLM1_NOT_FOUND	Failed to close dispatched call to Cencon lock by serial connection! Failed to find the first user who was dispatched on a route to the lock in the Cencon database.
RC_ERR_CLOSE_LOCK_SERIAL_ROUTE_DISPATCHED_FLMBOTH_NOT_FOUND	Failed to close dispatched call to Cencon lock by serial connection! Failed to find both users who were dispatched on a route to the lock in the Cencon database.
RC_ERR_CLOSE_LOCK_SERIAL_ROUTE_DISPATCHED_FLM2_NOT_FOUND	Failed to close dispatched call to Cencon lock by serial connection! Failed to find the second user who was dispatched on a route to the lock in the Cencon database.
RC_ERR_CLOSE_LOCK_SERIAL_ROUTE_USER_DISPATCHED_DOESNT_MATCH_USER_OPENED	Failed to close dispatched call to Cencon lock by serial connection! The user(s) who opened the lock do not match the users dispatched on a route to the lock.
RC_ERR_IMPORT_FAILED_SYSTEM_CHECK	The import lock XML file's system identifier does not match the current system. The locks cannot be imported.
RC_ERR_FAILED_UPDATE_LOCK_NETWORK_ADDRESS	Failed to update the network address for all modes of the lock serial number! A database error occurred.
RC_ERR_ACTIVATE_LOCK_DATA_CORRUPT_NAME_NOT_SET	Failed to activate lock! The lock name has not been set.
RC_ERR_ACTIVATE_LOCK_DATA_CORRUPT_MODE_NOT_SET	Failed to activate lock! The lock mode has not been set.
RC_ERR_ACTIVATE_LOCK_DATA_CORRUPT_SERIALNUM_NOT_SET	Failed to activate lock! The lock serial number has not been set, or is out of range.
RC_ERR_ACTIVATE_LOCK_DATA_CORRUPT_CUSTOMERNUM_NOT_SET	Failed to activate lock! The lock customer number has not been set, or is out of range.
RC_ERR_FLM1_KEY_TYPE_REQUIRES_GEN2_ACTIVATED_LOCK	User FLM 1 key is a DS1963 model key. It can only be dispatched/reassigned to a Cencon Gen 2 lock activated in Gen 2 mode.
RC_ERR_FLM2_KEY_TYPE_REQUIRES_GEN2_ACTIVATED_LOCK	User FLM 2 key is a DS1963 model key. It can only be dispatched/reassigned to a Cencon Gen 2 lock activated in Gen 2 mode.
RC_ERR_FLMBOTH_KEY_TYPE_REQUIRES_GEN2_ACTIVATED_LOCK	Both User FLM 1 and FLM 2 keys are DS1963 model keys. They can only be dispatched/reassigned to a Cencon Gen 2 lock activated in Gen 2 mode.
RC_ERR_DELETE_LOCK_FAILED_DELETE_ROUTE_LOCK_ENTRIES	Failed to delete lock. A database error occurred while removing entries for the lock from the collection lock table.
RC_ERR_FAILED_UPDATE_USER	Failed to update user record in Cencon database. A database error occurred while updating the record.
RC_ERR_FAILED_UPDATE_MULTIPLE_USER_DESCRIPTORIAL_DATA	Failed to update descriptive data for multiple user records in Cencon database. A database error occurred while updating the multiple user records.
RC_ERR_FAILED_RENAME_CUSTOMER_ERROR_EXCEPTION	Failed to rename customer! An application exception occurred while updating the Cencon database.
RC_ERR_FAILED_RENAME_BANK_BRANCH_ERROR_EXCEPTION	Failed to rename bank branch! An application exception occurred while updating the Cencon database.
RC_ERR_FAILED_DETERMINE_DISPATCHER_REGION_AUTHORIZATION	Failed to determine dispatcher region authorization! The dispatcher region information was not found.
RC_ERR_NOT_AUTHORIZED_OPERATION_DUE_TO_REGION	The current dispatcher is not authorized to do the operation due to their region restriction. The operation affects data that is assigned to another region.
RC_ERR_FAILED_FIND_ROUTE	Failed to find route record entry in the Cencon database! The route may have been renamed or deleted.
RC_ERR_RESTORE_DELETED_LOCK_ALREADY_EXISTS_NAME_MODE	Failed to restore deleted lock! The lock name and mode already exist in the active lock table.
RC_ERR_RESTORE_DELETED_LOCK_ALREADY_EXISTS_SERIAL_NUMBER_MODE	Failed to restore deleted lock! The lock serial number and mode already exist in the active lock table.
RC_ERR_RESTORE_DELETED_LOCK_FAILED_INSERT_LOCK_TABLE	Failed to restore deleted lock! A database error occurred while inserting the deleted lock record back into the active lock table.
RC_ERR_RESTORE_DELETED_LOCK_FAILED_GET_BANK_MODE_USERS	Failed to restore deleted lock! Failed to get bank mode users for the restored lock from user lock history table. A database error occurred while querying the user lock history table.
RC_ERR_RESTORE_DELETED_LOCK_FAILED_RESTORE_ONE_OR_MORE_BANK_MODE_USERS	Failed to restore deleted lock! Failed to restore one or more bank mode users for the restored lock.
RC_ERR_RESTORE_DELETED_LOCK_BANK_MODE_BRANCH_NAME_DOESNT_EXIST	Failed to restore deleted lock! The bank mode branch name assigned to the lock does not exist.
RC_ERR_RESTORE_DELETED_LOCK_REGION_DOES_NOT_EXIST	Failed to restore deleted lock! The deleted lock's region does not exist, and region control is active.
RC_ERR_FORCE_DELETE_LOCK_FAILED_INSERT_BANK_USERS_INTO_HISTORY	Failed to force delete bank mode lock! A database error occurred while inserting the bank user records assigned to the lock into the user lock history table.

RC_ERR_FORCE_DELETE_LOCK_FAILED_GET_BANK_USERS	Failed to force delete bank mode lock! A database error occurred while querying the user lock table for the bank mode users assigned to the lock.
RC_ERR_REPLACE_LOCK_FAILED_INSERT_OLD_LOCK_INTO_LOCK_HISTORY_TABLE	Failed to replace lock! Failed to insert the old lock into the lock history table.
RC_ERR_REPLACE_LOCK_FAILED_OPEN_OLD_LOCK_USER_LOCK_TABLE_QUERY	Failed to replace lock! Failed to open query of the old lock's bank mode users from the user lock table.
RC_ERR_REPLACE_LOCK_FAILED_INSERT_OLD_LOCK_USER_LOCK_HISTORY_TABLE_ENTRIES	Failed to replace lock! Failed to insert the old lock's bank mode users into the user lock history table.
RC_ERR_REPLACE_LOCK_FAILED_DELETE_OLD_LOCK_USER_LOCK_TABLE_ENTRIES	Failed to replace lock! Failed to remove the old lock's bank mode users from the user lock table.
RC_ERR_REPLACE_LOCK_FAILED_DELETE_OLD_LOCK_FROM_LOCK_TABLE	Failed to replace lock! Failed to delete the old lock from the active lock table.
RC_ERR_UNDO_REPLACE_LOCK_FAILED_FIND_OLD_BANK_REPLACED_LOCK	Undo replace lock: Failed to find the record for the original Bank mode lock that had been replaced.
RC_ERR_UNDO_REPLACE_LOCK_BANK_LOCK_NOT_BEEN_REPLACED	Undo replace lock: Bank mode lock to undo replace is not a lock that has been replaced.
RC_ERR_UNDO_REPLACE_LOCK_FAILED_DELETE_REPLACEMENT_LOCK_USER_LOCK_TABLE_ENTRIES	Undo replace lock: Failed to delete the user lock table entries for the replacement lock.
RC_ERR_REPLACE_LOCK_FAILED_READ_DELETE_OLD_COLLECTION_RECORDS	Failed to replace lock! Failed to read and delete the references from the lock collections to the old lock.
RC_ERR_REPLACE_LOCK_FAILED_INSERT_UPDATED_COLLECTION_RECORDS	Failed to replace lock! Failed to insert updated references to the lock collections for the new lock.
RC_ERR_UNDO_REPLACE_LOCK_FAILED_READ_DELETE_COLLECTION_RECORDS	Undo replace lock: Failed to read and delete the references from the lock collections to the replacement lock.
RC_ERR_UNDO_REPLACE_LOCK_FAILED_INSERT_UPDATED_COLLECTION_RECORDS	Undo replace lock: Failed to insert updated references to the lock collections for the old lock.
RC_ERR_ACTIVATE_LOCK_REGION_NOT_SET_REGION_CONTROL_ACTIVE	Failed to activate lock! The lock being activated does not have a region set, and region control is active for using regions to restrict users to locks in the same region.
RC_ERR_SET_OPEN_DELAY_LOCK_OPEN_DELAY_WINDOW_OUT_OF_RANGE	Failed to set bank mode time delay and open window on lock! The values for the time delay and open window are out of range. They must both be within 1-99, or both be set to zero.
RC_ERR_RESYNC_DISPATCHING_INIT_KEY_PCIO_DEVICE_CANT_SUPPORT_GEN2	Failed to initialize key to resynchronize lock dispatching! The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.
RC_ERR_RESYNC_DISPATCHING_INIT_KEY_NOT_GEN2_LOCK	Failed to initialize key to resynchronize lock dispatching! The current lock is not a Cencon Gen 2 lock. The older Cencon Gen1 lock does not support this operation.
RC_ERR_RESYNC_DISPATCHING_INIT_KEY_INVALID_MODE	Failed to initialize key to resynchronize lock dispatching! The lock mode of the current lock is invalid. The lock must be either FLM or Route mode to resynchronize dispatching.
RC_ERR_RESYNC_DISPATCHING_INIT_KEY_LOCK_NOT_FOUND	Failed to initialize key to resynchronize lock dispatching! The specified lock does not exist in the database.
RC_ERR_RESYNC_DISPATCHING_INIT_KEY_LOCK_IS_DISPATCHED	Failed to initialize key to resynchronize lock dispatching! The specified lock is currently dispatched. You will need to close or use the Manager Force close the lock in the Cencon database.
RC_ERR_RESYNC_DISPATCHING_INIT_KEY_LOCK_IS_NOT_ACTIVATED_AS_GEN2	Failed to initialize key to resynchronize lock dispatching! The specified lock is not activated as Gen 2. It is currently in compatibility mode with Cencon Gen1 for use with older software. You will need to update the activation of the lock as Gen 2.
RC_ERR_RESYNC_DISPATCHING_INIT_KEY_LOCK_IS_NOT_ACTIVE_IN_DATABASE	Failed to initialize key to resynchronize lock dispatching! The specified lock is not active in the Cencon database. The lock must be active, it can not be shelved.
RC_ERR_RESYNC_DISPATCHING_INIT_KEY_INVALID_KEY_MODEL	Failed to initialize key to resynchronize lock dispatching! The model of key in the key reader is invalid. A DS1963 key model is required to set up a lock dispatch resynchronization key.
RC_ERR_RESYNC_DISPATCHING_INIT_KEY_IS_ASSIGNED_TO_USER	Failed to initialize key to resynchronize lock dispatching! The key in the key reader is currently assigned to an active user in the Cencon database. The key is already being used.
RC_ERR_RESYNC_DISPATCHING_INIT_KEY_IS_INSTALL_KEY	Failed to initialize key to resynchronize lock dispatching! The key in the key reader is an install key for the Cencon USB Key Box. It is not permitted for install keys to be overwritten.
RC_ERR_RESYNC_DISPATCHING_READ_KEY_PCIO_DEVICE_CANT_SUPPORT_GEN2	Failed to read key to resynchronize lock dispatching! The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.

RC_ERR_RESYNC_DISPATCHING_READ_KEY_INVALID_KEY_MODEL	Failed to read key to resynchronize lock dispatching! The model of key in the key reader is invalid. A DS1963 key model is required for a lock dispatch resynchronization key.
RC_ERR_RESYNC_DISPATCHING_READ_KEY_INCORRECT_KEY_MODE	Failed to read key to resynchronize lock dispatching! The lock mode specified by the key is invalid. The lock must be either FLM or Route mode to resynchronize dispatching.
RC_ERR_RESYNC_DISPATCHING_READ_KEY_DATA_READ_ERROR	Failed to read key to resynchronize lock dispatching! An error occurred while reading the data from the key. The key data did not validate properly.
RC_ERR_RESYNC_DISPATCHING_READ_KEY_RESYNC_KEY_NOT_USED	Failed to read key to resynchronize lock dispatching! The lock dispatch resynchronization key has not been used at the lock.
RC_ERR_RESYNC_DISPATCHING_READ_KEY_LOCK_NOT_FOUND	Failed to read key to resynchronize lock dispatching! The lock specified by the lock dispatch resynchronization key could not be found in the Cencon database.
RC_ERR_RESYNC_DISPATCHING_READ_KEY_NOT_GEN2_LOCK	Failed to read key to resynchronize lock dispatching! The lock specified by the lock dispatch resynchronization key is not a Cencon Gen 2 lock.
RC_ERR_RESYNC_DISPATCHING_READ_KEY_UNABLE_TO_VERIFY_AS_VALID_KEY	Failed to read key to resynchronize lock dispatching! The lock dispatch resynchronization key data could not be validated against the lock security data.
RC_ERR_RESYNC_DISPATCHING_READ_KEY_LOCK_NOT_IN_RESYNC_MODE	Failed to read key to resynchronize lock dispatching! The lock specified by the lock dispatch resynchronization key is not currently in the process of being resynchronized.
RC_ERR_RESYNC_DISPATCHING_READ_KEY_FAILED_INSERT_INTO_HISTORY	Failed to read key to resynchronize lock dispatching! A database error occurred while inserting the original lock record into the Cencon database lock history table.
RC_ERR_RESYNC_DISPATCHING_READ_KEY_FAILED_UPDATE_LOCK_RECORD	Failed to read key to resynchronize lock dispatching! A database error occurred while updating the lock record in the Cencon database lock table.
RC_ERR_RESYNC_DISPATCHING_READ_KEY_INCORRECT_KEY_TYPE	Failed to read key to resynchronize lock dispatching! The key being read is not a lock dispatch resynchronization key.
RC_ERR_FAILED_UPDATE_AUDIT_EVENT_NAMES	Failed to update audit event names for database table! A database error occurred while updating the table.
RC_ERR_FAILED_UPDATE_LOCK_DESCRIPTOR_DATA	Failed to update lock descriptive data! A database error occurred while updating the lock table.
RC_ERR_FAILED_UPDATE_LOG_DESCRIPTOR_DATA	Failed to update log descriptive data! A database error occurred while updating the log table.
RC_ERR_UPDATE_COMMON_FIELDS_FOR_TABLES_FIELD_COUNT_MISMATCH	Failed to update common fields in a database table! The primary and secondary table field counts did not match.
RC_ERR_FAILED_UPDATE_COMMON_FIELDS_FOR_TABLES	Failed to update common fields in a database table! A database error occurred while updating the table.
RC_ERR_DATABASE_CONNECTION_INVALID	Database operation failed! The database connection is invalid.
RC_ERR_DATABASE_OPERATION_RECORD_DATA_MISSING	Database operation failed! The record data is missing.
RC_ERR_DATABASE_OPERATION_RECORD_DATA_INVALID	Database operation failed! The record data is invalid.
RC_ERR_DATABASE_OPERATION_RECORD_NOT_FOUND_IN_DATABASE	Database operation failed! The record data was not found in the database.
RC_ERR_DATABASE_OPERATION_NO_PRIMARY_KEY_DEFINED_FOR_TABLE	Database operation failed! No primary key is defined for the affected table.
RC_ERR_DATABASE_OPERATION_NO_ROWS_AFFECTED	Database operation failed! No database table rows were affected by the operation.
RC_ERR_DATABASE_OPERATION_EXCEPTION_OCCURRED	Database operation failed! An internal application exception occurred while attempting the operation.
RC_ERR_DATABASE_OPERATION_FAILED_WITH_ERROR_FROM_DBMS	Database operation failed! An error was returned by the database management system for the attempted operation.
RC_ERR_FAILED_INSERT_AUDIT	Database operation failed! Failed to insert audit record into database table.
RC_ERR_FAILED_RENAME_USER_ERROR_CALL_STORED_PROCEDURE	Failed to rename user. A database error occurred during the call to the database stored procedure for changing the user ID.
RC_ERR_QUERY_USER_TABLE_NOT_AUTHORIZED_ON_SPECIFIED_ROLES	Logon User ID Authorization Role does not authorize performing a user table query on the specified roles.
RC_ERR_QUERY_USER_TABLE_HISTORY_NOT_AUTHORIZED_ON_SPECIFIED_ROLES	Logon User ID Authorization Role does not authorize performing a user history table query on the specified roles.
RC_ERR_QUERY_USER_TABLE_ARCHIVE_NOT_AUTHORIZED_ON_SPECIFIED_ROLES	Logon User ID Authorization Role does not authorize performing a user archive table query on the specified roles.
RC_ERR_FAILED_WRITE_OUTPUT_FILE	Failed to write the output file to disk! A disk operations error or conflict with another process occurred while writing the file.

RC_ERR_GET_STATUS_LOCK_SERIAL_PCIO_DEVICE_CANT_SUPPORT_GEN2	Failed to get lock status by serial connection! The current Cencon PCIO device does not support the Cencon Gen 2 Lock. You will need a Cencon USB Key Box to support the Cencon Gen 2 Lock.
RC_ERR_FAILED_OPEN_AUDIT_TABLE	Failed to open audit table! A database error occurred.
RC_ERR_AUDIT_NOT_FOUND	Failed to find audit primary key within audit table! The audit primary key value does not exist.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_BOLT_NOT_EXTENDED	Failed to close dispatched call to Cencon lock by serial connection. The lock bolt is not extended.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_BOLT_WORKS_NOT_EXTENDED	Failed to close dispatched call to Cencon lock by serial connection. The lock bolt works is not extended.
RC_ERR_CLOSE_LOCK_SERIAL_LOCK_ALTERNATE_CHANGE_KEY_INSERTED	Failed to close dispatched call to Cencon lock by serial connection. The lock alternate change key is inserted.
RC_ERR_RESYNC_DISPATCHING_LOCK_SERIAL_LOCK_MODE_NOT_ACTIVE	Failed to resynchronize dispatching of Cencon database lock entry by serial connection! The lock mode is not activated, but it is indicated as activated in the Cencon database. The lock mode has been shelved.
RC_ERR_FAILED_OPEN_DATABASE_CONNECTION	Failed to open the connection to the Cencon database! The database may be down or the database connection information may be invalid.
RC_ERR_FAILED_OPEN_AUTH_DEFINITION_TABLE	Failed to open the Cencon database authorization definition table! A database error occurred.
RC_ERR_NOT_AUTHORIZED_OPERATION_DUE_TO_MODE	The current dispatcher is not authorized to do the operation due to their lock mode restriction. The operation affects data that is assigned to a lock mode that the dispatcher is not authorized to access.
RC_ERR_INVALID_PWD_REC_KEY_TYPE_IS_ONLY_APPROPRIATE_FOR_CENCON_BANK	Invalid user record. The key type is only appropriate for Cencon lock Bank mode user keys.
RC_ERR_INVALID_PWD_REC_KEY_TYPE_IS_ONLY_APPROPRIATE_FOR_CENCON_FLM_ROUTE	Invalid user record. The key type is only appropriate for Cencon lock FLM and Route mode user keys.
RC_ERR_INVALID_PWD_REC_KEY_TYPE_IS_ONLY_APPROPRIATE_FOR_CENCON_LOGON	Invalid user record. The key type is only appropriate for Cencon software logon keys.
RC_ERR_FAILED_ADD_USER_KEY_UNKNOWN_OR_UNSUPPORTED_USER_ROLE	Failed to add user key. Unknown or unsupported user role.
RC_ERR_FAILED_ADD_USER_KEY_NOT_PERMITTED_OVERWRITE_INSTALL_KEY	Failed to add user key. It is not permitted to overwrite an install key with another key type.
RC_ERR_FAILED_ADD_USER_KEY_REGION_CONTROL_ACTIVE_BUT_REGION_NOT_SET	Failed to add user key. Region control is active, but the region for the new user key is not set.
RC_ERR_FAILED_ADD_USER_KEY_USER_ID_NOT_SET	Failed to add user key. User ID is not set.
RC_ERR_FAILED_ADD_USER_KEY_BANK_BRANCH_NAME_NOT_SET	Failed to add user key. Bank Branch Name is not set.
RC_ERR_FAILED_ADD_USER_KEY_BANK_USER_ID_NOT_SET	Failed to add user key. Bank User ID number is not set.
RC_ERR_INVALID_PWD_REC_NUMBER_TIME_WINDOWS_OUT_OF_RANGE	Invalid user record. The number of access time windows is out of range. This value can be 0 to 3 time windows.
RC_ERR_INVALID_PWD_REC_TIME_WINDOW_DURATION_NOT_SET	Invalid user record. An access time window duration is not set, where the number of time windows for the user has been set to one or more.
RC_ERR_FAILED_UPDATE_USER_KEY_UNKNOWN_OR_UNSUPPORTED_USER_ROLE	Failed to update user key. Unknown or unsupported user role.
RC_ERR_FAILED_READ_USER_KEY_UNKNOWN_OR_UNSUPPORTED_USER_ROLE	Failed to read user key. Unknown or unsupported user role.
RC_ERR_NOT_AUTHORIZED_TO_LOG_ON	The current dispatcher is not authorized to log onto Cencon or CenTran. Log On authorization is required to have access to Cencon operations or CenTran transactions.
RC_ERR_NOT_AUTHORIZED_USER_ACCESS_DISABLED	The current dispatcher is not authorized due to access being disabled. The user has been marked as having their access disabled and is restricted from Cencon operations or CenTran transactions.
RC_ERR_NOT_AUTHORIZED_BEFORE_ENABLED_START_DATE	The current dispatcher is not authorized due to the current time being before their enabled start date for access. User access can be restricted by start and end date.
RC_ERR_NOT_AUTHORIZED_AFTER_ENABLED_END_DATE	The current dispatcher is not authorized due to the current time being after their enabled end date for access. User access can be restricted by start and end date.
RC_ERR_SHELVE_LOCK_SERIAL_CHANGE_KEY_NOT_PRESENT	The lock mode could not be shelved across remote communications because a change key is not present in the lock and the Remote Shelve Change Key Control feature is enabled in the Cencon configuration settings.
RC_ERR_REGION_NOT_FOUND	Failed to find the region in the database region table. The region name is not in the database region table.

RC_ERR_BANK_BRANCH_NOT_FOUND	Failed to find the bank branch in the database bank branch table. The bank branch name is not in the database bank branch table.
RC_ERR_FAILED_DELETE_BANK_BRANCH_STILL_IN_USE	Failed to delete the bank branch from the database bank branch table. The bank branch is still in use by one or more locks or users.
RC_ERR_RENAME_FAILED_UPDATE_ROUTE_LOCK_FOR_RENAME	Failed to update the route lock entries when renaming lock.
RC_ERR_FAILED_OPEN_USER_LOCK_TABLE	Failed to open user lock table for reading bank mode user assignments to locks! A database error with the table query occurred.
RC_ERR_FAILED_QUERY_ROUTE_LOCK_ARCHIVE_TABLE_RESTORE_ROUTE	Failed to open route lock archive table for reading route locks to restore an archived route. A database error with the table query occurred.
RC_ERR_ADD_BANK_BRANCH_CUSTOMER_ID_NOT_FOUND	Failed to add bank branch! The specified associated customer ID doesn't exist.
RC_ERR_BANK_BRANCH_ID_FOR_NON1963_KEY_EXCEEDS_9999	ID of the bank branch assigned to a non DS1963 key exceeds 9999 which is not valid.
RC_ERR_BANK_BRANCH_ID_SEARCH_RANGE_EXCEEDS_MAX	Bank branch ID search failed. Specified range exceeded 2147483647.
RC_ERR_ADD_BANK_BRANCH_ZERO_BRANCH_ID	Bank branch ID of zero is not allowed.
RC_ERR_MODE_CANCEL_DISPATCH_ADVANCE_COMBO_INVALID_MODE	Failed to cancel dispatch and advance to next combination of Cencon lock by serial connection! The lock mode of the current lock is invalid. The lock mode must be either FLM or Route mode to cancel a dispatch at the lock and advance the lock mode to the next combination.
RC_ERR_FAILED_UPDATE_AUDIT	Database operation failed! Failed to update audit record in database table.
RC_ERR_CLOSE_LOCK_SERIAL_CORRUPT_LOCK_AUDIT_BAD_CRC	Failed to close dispatched call to Cencon lock by serial connection! One or more lock audits did not have a good CRC (Cyclic Redundancy Check).
RC_ERR_LOCK_SERIAL_CORRUPT_LOCK_AUDIT_BAD_CRC	Failed to read audits from lock by serial communications! One or more of the lock audits did not have a good CRC (Cyclic Redundancy Check).
RC_ERR_FAILED_DETERMINE_DATABASE_ODBC_DRIVER_VERSION	Failed to determine the database connection ODBC Driver Version!
RC_ERR_ODBC_DRIVER_VERSION_OUT_OF_DATE	The database connection configured Microsoft SQL ODBC Driver is out of date! Please install an updated Microsoft SQL ODBC Driver 2008 R2 or higher, and update your database connection with that ODBC driver.
RC_ERR_ADD_BANK_BRANCH_OUT_OF_RANGE_BRANCH_ID	Failed to add bank branch! Bank branch ID must be in the range of 1 to 2147483647.
RC_ERR_SET_TZDSTTABLE_LOCK_SERIAL_LOCK_MODE_NOT_ACTIVE	Failed to set time zone / daylight savings time transition table at lock by serial connection! The specified lock mode is not active.
RC_ERR_CHANGE_USER_COMBINATION_INVALID_VALUE	Failed to set the user bank mode combination. The new combination value is out of range. It must be in the range of 000000 to 999999, or set to -1 to indicate not set.
RC_ERR_CHANGE_USER_COMBINATION_FAILED_UPDATE_RECORD	Failed to set the user bank mode combination. A database error occurred while attempting to update the user record in the database.
RC_ERR_CHANGE_USER_COMBINATION_INVALID_USER_TYPE	Failed to set the user bank mode combination. The user type is not a bank mode lock user.
RC_ERR_FAILED_OPEN_CUSTOMER_TABLE	Failed to open customer table. The Cencon database connection may have been lost or the table may be missing.
RC_ERR_IMPORT_BANK_BRANCH_CONFLICTING_BRANCH_ID	Failed to create bank branch with information specified in import file. The bank branch already exists in the system with a different bank branch ID.
RC_ERR_IMPORT_LOCKS_FAILED_QUERY_BANK_BRANCH_TABLE	Failed to import lock. Unable to query the bank branch table.
RC_ERR_IMPORT_USER_CONFLICTING_BANK_MODE_INFORMATION	Failed to add user with information specified in import file. The key serial number already exists in the system with different bank mode information.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_LOCK_DATA_CORRUPT	Failed to input combo to Cencon lock by serial connection and prompt IPI! Data given for lock is corrupt or invalid.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_NOT_GEN_2_LOCK	Failed to input combo to Cencon lock by serial connection and prompt IPI! The indicated lock serial number is not a Cencon Gen 2 lock.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_LOCK_NOT_RESPONDING	Failed to input combo to Cencon lock by serial connection and prompt IPI! The lock is not responding across the serial connection.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_FAILED_TO_GET_SERIAL_NUMBER	Failed to input combo to Cencon lock by serial connection and prompt IPI! Failed to get the lock serial number from across the serial connection.

RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_LOCK_FIRMWARE_OUT_OF_DATE	Failed to input combo to Cencon lock by serial connection and prompt IPI! The lock firmware version is out of date and does not support the operation to advance the combination for a mode. The lock firmware can be updated remotely from dormakaba across a network connection.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_CONNECTED_LOCK_SERIAL_NUM_DOESNT_MATCH	Failed to input combo to Cencon lock by serial connection and prompt IPI! The connected lock is not the one expected to advance a mode combination of. A different lock is connected than the serial number set up to advance a mode combination.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_LOCK_IS_OPEN	Failed to input combo to Cencon lock by serial connection and prompt IPI! The connected lock is currently open.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_GEN_2_LOCK_IN_COMPATIBILITY_MODE	Failed to input combo to Cencon lock by serial connection and prompt IPI! The connected lock is operating in Cencon Gen 1 compatibility mode.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_LOCK_MODE_NOT_ACTIVE	Failed to input combo to Cencon lock by serial connection and prompt IPI! The specified lock mode to advance the next combination of at the connected lock is not active.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_LOCK_BOLT_RETRACTED	Failed to input combo to Cencon lock by serial connection and prompt IPI! The lock bolt is currently retracted.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_LOCK_BOLT_NOT_EXTENDED	Failed to input combo to Cencon lock by serial connection and prompt IPI! The lock bolt is not extended.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_LOCK_BOLT_WORKS_NOT_EXTENDED	Failed to input combo to Cencon lock by serial connection and prompt IPI! The lock bolt works is not extended.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_LOCK_IS_NOT_DISPATCHED	Failed to input combo to Cencon lock by serial connection and prompt IPI! The lock is not dispatched in the Cencon database.
RC_ERR_LOCK_SERIAL_INPUT_COMBO_IPI_INVALID_ROUTE_SEQUENCE	Failed to input combo to Cencon lock by serial connection and prompt IPI! The specified route sequence is not valid or is not dispatched.
RC_ERR_INIT_TIME_SET_KEY_INVALID_KEY_MODEL	Failed to initialize clock set key! The key is not a DS1922 clock set key.
RC_ERR_INIT_TIME_SET_KEY_FAILED_SET_KEY_PASSWORD	Failed to initialize clock set key! Failed to set the DS1922 key password.
RC_ERR_INIT_TIME_SET_KEY_FAILED_WRITE_CLOCK	Failed to initialize clock set key! Failed to write to the DS1922 key clock.
RC_ERR_INIT_TIME_SET_KEY_FAILED_WRITE_TIME_ZONE_ID	Failed to initialize clock set key! Failed to write the time zone ID to the DS1922 key memory.
RC_ERR_INIT_TIME_SET_KEY_FAILED_WRITE_DAYLIGHT_SAVINGS_TABLE	Failed to initialize clock set key! Failed to write the daylight savings time transition table to the DS1922 key memory.
RC_ERR_INIT_TIME_SET_KEY_FAILED_WRITE_VALIDATION_RECORD	Failed to initialize clock set key! Failed to write the validation record to the DS1922 key memory.
RC_ERR_INIT_TIME_SET_KEY_INVALID_TIME_ZONE_DATA	Failed to initialize clock set key! The specified time zone data is invalid.
RC_ERR_READ_TIME_SET_KEY_INVALID_KEY_MODEL	Failed to read clock set key! The key is not a DS1922 clock set key.
RC_ERR_READ_TIME_SET_KEY_FAILED_READ_CLOCK	Failed to read clock set key! Failed to read the DS1922 clock.
RC_ERR_READ_TIME_SET_KEY_FAILED_READ_TIME_ZONE_ID	Failed to read clock set key! Failed to read the time zone id.
RC_ERR_READ_TIME_SET_KEY_FAILED_READ_DST_TABLE_PAGE	Failed to read clock set key! Failed to read a page of the daylight savings time transition table from the DS1922 key memory.
RC_ERR_READ_TIME_SET_KEY_FAILED_READ_VALIDATION_RECORD	Failed to read clock set key! Failed to read the validation record from the DS1922 key memory.
RC_ERR_READ_TIME_SET_KEY_FAILED_READ_HEADER_RECORD	Failed to read clock set key! Failed to read the key header record.
RC_ERR_READ_TIME_SET_KEY_HEADER_RECORD_DATA_CORRUPT	Failed to read clock set key! The header record data is corrupt. The header record CRC is invalid.
RC_ERR_READ_TIME_SET_KEY_DATA_CORRUPT_SHA_HASH_INVALID	Failed to read clock set key! The clock set key data is corrupt. The SHA hash for the key data is invalid.
RC_ERR_READ_TIME_SET_KEY_DST_TABLE_PAGE_DATA_CORRUPT	Failed to read clock set key! A daylight savings table record data is corrupt. The daylight savings table record CRC is invalid.
RC_ERR_READ_RESYNC_KEY_INCORRECT_KEY_TYPE	Failed to read lock dispatch resynchronization key! The key is not initialized as a lock dispatch resynchronization key.
RC_ERR_READ_RESYNC_KEY_INVALID_LOCK_MODE	Failed to read lock dispatch resynchronization key! The lock mode indicated on the key is invalid.
RC_ERR_READ_RESYNC_KEY_FAILED_READ_LOCK_USER_DATA	Failed to read lock dispatch resynchronization key! Failed to read the lock dispatch resynchronization key user data.

RC_ERR_RESYNC_DISPATCHING_CANCEL_NOT_GEN2_LOCK	Failed to cancel resynchronize lock dispatching! The current lock is not a Cencon Gen 2 lock. The older Cencon Gen1 lock does not support this operation.
RC_ERR_RESYNC_DISPATCHING_CANCEL_INVALID_MODE	Failed to cancel resynchronize lock dispatching! The lock mode of the current lock is invalid. The lock must be either FLM or Route mode to resynchronize dispatching.
RC_ERR_RESYNC_DISPATCHING_CANCEL_LOCK_NOT_FOUND	Failed to cancel resynchronize lock dispatching! The specified lock does not exist in the database.
RC_ERR_RESYNC_DISPATCHING_CANCEL_LOCK_IS_NOT_ACTIVATED_AS_GEN2	Failed to cancel resynchronize lock dispatching! The specified lock is not activated as Gen 2. It is currently in compatibility mode with Cencon Gen1 for use with older software. You will need to update the activation of the lock as Gen 2.
RC_ERR_RESYNC_DISPATCHING_CANCEL_LOCK_IS_NOT_ACTIVE_IN_DATABASE	Failed to cancel resynchronize lock dispatching! The specified lock is not active in the Cencon database. The lock must be active, it can not be resynchronized dispatching.
RC_ERR_RESYNC_DISPATCHING_CANCEL_LOCK_IS_NOT_BEING_RESYNCD	Failed to cancel resynchronize lock dispatching! The specified lock is not being resynchronized dispatching.
RC_ERR_RESYNC_DISPATCHING_CANCEL_LOCK_IN_OTHER_DISPATCH_STATUS	Failed to cancel resynchronize lock dispatching! The specified lock has some other administrative dispatch status set.
RC_ERR_RESYNC_DISPATCHING_INIT_KEY_LOCK_IS_ALREADY_BEING_RESYNCD	Failed to initialize key to resynchronize lock dispatching! The specified lock already has a resynchronization operation started, and a matching resynchronization key has already been initialized.
RC_ERR_RESYNC_DISPATCHING_INIT_KEY_LOCK_ALREADY_IN_OTHER_DISPATCH_STATUS	Failed to initialize key to resynchronize lock dispatching! The specified lock has some other administrative dispatch status set.
RC_ERR_FAILED_XML_IMPORT_FILE_NOT_FOUND	Failed to parse XML data from resource file for import. Resource file not found.
RC_ERR_ACTIVATE_G1_LOCK_BANK_1963_KEY_NOT_SUPPORTED	A bank mode user with a DS1963 key cannot be assigned to a Gen 1 lock.
RC_ERR_ACTIVATE_G1_LOCK_BANK_TOO_FEW_1427_KEYS	Gen 1 bank mode requires 2 or more users with DS1427 bank keys.
RC_ERR_NOT_AUTHORIZED_OPERATION_DUE_TO_RESTRICTED_REGION	The current dispatcher is not authorized to do the operation due to their region restriction.
RC_ERR_FAILED_UTC_DATE_TIME_RETRIEVAL	Failed to retrieve UTC date and time from database management system.

The following is a list of error codes (with description) that CenTran could return related to the Cencon PCIO PCI card when the incoming transaction file format is XML:

Message Name	Message Description
RC_ERR_PCIO_BAD_KEY_CRC	PCIO Data from key is corrupt
RC_ERR_PCIO_NAK	PCIO NAK returned
RC_ERR_PCIO_INVCMD	PCIO command was in error
RC_ERR_PCIO_PCIO_ID_BAD	PCIO invalid key for card
RC_ERR_PCIO_NOKEY	PCIO no key inserted
RC_ERR_PCIO_INVKEY	PCIO invalid key
RC_ERR_PCIO_TIMEOUT	PCIO timeout
RC_ERR_PCIO_KEYREADERR	PCIO key read error
RC_ERR_PCIO_UNKNOWN	PCIO unknown error
RC_ERR_PCIO_FAIL_OPEN_WINDRIVER_DEVICE	PCIO Driver Failed opening WinDriver device
RC_ERR_PCIO_INCORRECT_WINDRIVER_VERSION	PCIO Driver WinDriver is incorrect version
RC_ERR_PCIO_NO_DEVICES_FOUND	PCIO Driver Could not find PCIO Card
RC_ERR_PCIO_CARD_ID_OUT_OF_RANGE	PCIO Driver Card address not in range of valid addresses
RC_ERR_PCIO_FAILED_LOCKING_DEVICE	PCIO Driver Card failed to lock device
RC_ERR_PCIO_CARD_INCOMPLETE_FUNCTION	PCIO Driver Card does not have complete identification items
RC_ERR_PCIO_CARD_FUNCTION_UNRESPONSIVE	PCIO Driver Card does not respond
RC_ERR_PCIO_INVALID_VENDOR_ID	PCIO Driver Card Vendor I.D. is not correct
RC_ERR_PCIO_FAIL_OPEN_ALREADY_OPEN	PCIO Driver Card is already open
RC_ERR_PCIO_FAIL_SET_ADDRESS_ALREADY_OPEN	PCIO Driver Card with this address is already open
RC_ERR_PCIO_FAIL_OPEN_INVALID_ADDR	PCIO Driver Card has invalid address
RC_ERR_PCIO_FAIL_DATA_SEND_RECEIVE	PCIO Driver Card data transmission error
RC_ERR_PCIO_FAIL_DEVICE_NOT_OPEN	PCIO Driver Card is not open
RC_ERR_PCIO_FAIL_INVALID_DATA	PCIO Driver WinDriver function called incorrectly
RC_ERR_PCIO_MEMORY_ALLOCATION_ERROR	PCIO Driver WinDriver memory allocation error
RC_ERR_PCIO_EXCEPTION_OCCURRED	PCIO Driver Exception occurred during PCIO processing
RC_ERR_PCIO_UNKNOWN_DRIVER_ERROR	PCIO Driver Unknown Error code
RC_ERR_PCIO_FAILED_COUNT_PCI_CARDS	PCIO Driver Failed to get count of PCI cards in system
RC_ERR_PCIO_NO_PCIO_DEVICES_IN_SYSTEM	PCIO Driver No PCIO devices found in system
RC_ERR_PCIO_FAIL_REGISTER_WINDRIVER	PCIO Driver Failed to register with driver. Driver not installed or incompatible version.
RC_ERR_PCIO_FAIL_GET_PCIO_DEVICE_SERIAL_NUMBER	Failed to get Cencon PCIO Serial Number
RC_ERR_PCIO_FUNCTION_NOT_SUPPORTED_ON_PCIO_DEVICE_VERSION	The attempted operation is not supported on this version of Cencon PCIO device.

RC_ERR_PCIO_FAILED_RESCAN_SYSTEM_DEVICE_CHANGES	Configuration Manager Operation Error: Failed to rescan system configuration for device changes
RC_ERR_PCIO_FAILED_SET_WD_DRIVER_NAME	Failed to set WinDriver Driver name. A driver internal error occurred.
RC_ERR_PCIO_BAD_KEY_LOCK_RECORD_COUNT	Key lock record count does not match key header information.

The following is a list of error codes (with description) that CenTran could return related to the Cencon USB Key Box or the Cencon Gen 2 Lock serial communications when the incoming transaction file format is XML:

Message Name	Message Description
RC_ERR_PCIO_COMMS_FAILED_FIND_START_OF_FRAME	Communications Error - failed to find start of frame
RC_ERR_PCIO_COMMS_FAILED_FIND_END_OF_FRAME	Communications Error - failed to find end of frame
RC_ERR_PCIO_COMMS_FAILED_TO_SEND	Communications Error - failure sending data
RC_ERR_PCIO_COMMS_FAILED_TO_SEND_NOT_OPEN	Communications Error - failure sending data - connection is not open
RC_ERR_PCIO_COMMS_FAILED_TO_SETUP_FOR_RECEIVE	Communications Error - failure setting up to read data
RC_ERR_PCIO_COMMS_FAILED_TO_READ_RECEIVED_DATA	Communications Error - failure reading data
RC_ERR_PCIO_COMMS_FAILED_TO_READ_TIMEOUT	Communications Error - failure reading data timed out waiting
RC_ERR_PCIO_COMMS_FAILED_TO_READ_BAD_CRC	Communications Error - failure reading crc was incorrect
RC_ERR_PCIO_COMMS_FAILED_TO_READ_NOT_OPEN	Communications Error - failure reading data - connection is not open
RC_ERR_PCIO_COMMS_RECEIVED_SOURCE_END_POINT_MISMATCHED	Communications Error - indicated source end point in response does not match what was sent
RC_ERR_PCIO_COMMS_RECEIVED_DESTINATION_END_POINT_MISMATCHED	Communications Error - indicated destination end point in response does not match what was sent
RC_ERR_PCIO_COMMS_RECEIVED_FRAME_ID_MISMATCHED	Communications Error - indicated frame id in response does not match what was sent
RC_ERR_PCIO_COMMS_RECEIVED_DATA_EMPTY	Communications Error - data received in response is empty
RC_ERR_PCIO_COMMS_RECEIVED_DATA_UNEXPECTED_SIZE	Communications Error - data received in response is not size as expected
RC_ERR_PCIO_COMMS_RECEIVED_COMMAND_RESPONSE_MISMATCHED	Communications Error - command in response does not match what was sent
RC_ERR_PCIO_COMMS_FAILED_TO_OPEN_CONNECTION	Communications Error - failed to open connection
RC_ERR_PCIO_COMMS_FAILED_TO_GET_COMM_STATE	Communications Error - failed to get communications state
RC_ERR_PCIO_COMMS_FAILED_TO_SET_COMM_STATE	Communications Error - failed to set communications state
RC_ERR_PCIO_COMMS_FAILED_TO_GET_COMM_TIMEOUTS	Communications Error - failed to get communications timeouts
RC_ERR_PCIO_COMMS_FAILED_TO_SET_COMM_TIMEOUTS	Communications Error - failed to set communications timeouts
RC_ERR_PCIO_COMMS_FAILED_TO_SEND_ARG_NULL	Communications Error - failed to send - argument is null
RC_ERR_PCIO_COMMS_FAILED_TO_SEND_ARG_OUT_OF_RANGE	Communications Error - failed to send - argument is out of range
RC_ERR_PCIO_COMMS_FAILED_TO_SEND_ARG_EXCEPTION	Communications Error - failed to send - argument exception occurred
RC_ERR_PCIO_COMMS_FAILED_TO_SEND_TIMEOUT	Communications Error - failed to send due to time out
RC_ERR_PCIO_COMMS_FAILED_TO_OPEN_ACCESS_DENIED	Communications Error - failed to open connection, access denied to port
RC_ERR_PCIO_COMMS_FAILED_TO_OPEN_INVALID_STATE	Communications Error - failed to open connection, port is in invalid state
RC_ERR_PCIO_COMMS_FAILED_TO_OPEN_INVALID_SETTINGS	Communications Error - failed to open connection, port settings are invalid
RC_ERR_PCIO_COMMS_FAILED_TO_OPEN_ALREADY_OPEN	Communications Error - failed to open connection, port is already open
RC_ERR_PCIO_COMMS_FAILED_TO_OPEN_ARG_EXCEPTION	Communications Error - failed to open connection, argument exception occurred
RC_ERR_PCIO_COMMS_INVALID_COMMAND	Received invalid command. The command received is unknown.
RC_ERR_PCIO_COMMS_INVALID_PARAMETER	Received invalid parameter. One or more parameters received is out of range or invalid.
RC_ERR_PCIO_COMMS_LOCKED	Received command not processed. Communications are locked, and must be unlocked before any commands will be accepted.
RC_ERR_PCIO_COMMS_COMMAND_NOT_IMPLEMENTED	Command not implemented. The command refers to an operation that this model of device does not support.
RC_ERR_PCIO_COMMS_TM_KEY_NOT_PRESENT	TM Key not present. The key operation can not be completed because there is no key in the indicated key reader slot.
RC_ERR_PCIO_COMMS_TM_KEY_INVALID_TYPE	TM Key is an invalid type. The key operation can not be completed because the key in the reader is the wrong type of key.
RC_ERR_PCIO_COMMS_TM_KEY_OPERATION_ERROR	TM Key operation error. The key operation failed at the key. Either communications failed with the key or there was a problem with the operation.
RC_ERR_PCIO_COMMS_INTERNAL_ERROR	Internal Error. An internal error with the operation of the USB Key Box occurred. Data stored by the USB Key Box may have been corrupted.
RC_ERR_PCIO_COMMS_UNKNOWN_STATUS_ERROR_CODE	The key box returned an unexpected unknown error code. An unknown type of error has occurred with the USB Key Box.
RC_ERR_PCIO_COMMS_COMMS_RESPONSE_NO_ERROR	Communications layer error response received - No error indicated.

RC_ERR_PCIO_COMMS_COMMS_RESPONSE_ERR_INVALID_ENDPOINT	Communications layer error response received - Command was sent to invalid device functionality endpoint.
RC_ERR_PCIO_COMMS_COMMS_RESPONSE_ERR_INVALID_CRC	Communications layer error response received - Command sent had invalid CRC. Data was corrupt.
RC_ERR_PCIO_COMMS_COMMS_RESPONSE_ERR_TIMEOUT	Communications layer error response received - Timed out waiting on remainder of command. Data was lost or interrupted.
RC_ERR_PCIO_COMMS_COMMS_RESPONSE_ERR_BUFFER_OVERFLOW	Communications layer error response received - Buffer overflow. The command sent was too large for the device.
RC_ERR_PCIO_COMMS_COMMS_RESPONSE_ERR_UNKNOWN_ERR_CODE	Communications layer error response received - The key box returned an unexpected error code for communications. An unknown type of error has occurred with the USB Key Box communications.
RC_ERR_PCIO_COMMS_COMMS_RESPONSE_ERR_INVALID_COMMAND	Communications layer error response received - Received invalid command. The command sent to the communication layer is not supported at the communications layer.
RC_ERR_PCIO_COMMS_FAILED_TO_SEND_OBJ_DISPOSED_EXCEPTION	Communications Error - failed to send - connection has closed.
RC_ERR_PCIO_COMMS_FAILED_TO_SEND_IO_EXCEPTION	Communications Error - failed to send - a driver IO exception occurred.
RC_ERR_PCIO_COMMS_FAILED_TO_READ_OBJ_DISPOSED_EXCEPTION	Communications Error - failed to read - connection has closed.
RC_ERR_PCIO_COMMS_FAILED_TO_READ_IO_EXCEPTION	Communications Error - failed to read - a driver IO exception occurred.
RC_ERR_PCIO_COMMS_FAILED_TO_RECONNECT	Failed to reconnect to Cencon Key Box. A error occurred while trying to reopen the device.
RC_ERR_PCIO_COMMS_COMMS_RESPONSE_ERR_INVALID_END_OF_FRAME	Communications layer error response received - Received invalid end of frame. An end of frame communications marker was not received when one was expected to end a frame of data. Data was lost or corrupted.
RC_ERR_PCIO_COMMS_COMMS_RESPONSE_ENCRYPT_LAYER_INVALID_COMMAND	Communications layer error response received - Encryption layer invalid command received.
RC_ERR_PCIO_COMMS_COMMS_RESPONSE_ENCRYPT_LAYER_INVALID_PARAMETER	Communications layer error response received - Encryption layer invalid parameter received.
RC_ERR_PCIO_COMMS_COMMS_RESPONSE_ENCRYPT_LAYER_INTERNAL_ERROR	Communications layer error response received - Encryption layer internal error occurred. An internal error with the operation of the USB Key Box occurred. Data stored by the USB Key Box may have been corrupted.
RC_ERR_PCIO_COMMS_READ_TM_TIME_KEY_INVALID_CLOCK_VALUE	An invalid or corrupt clock time value was read from the TM Key.
RC_ERR_PCIO_COMMS_FAILED_DATA_SENT_IN_COMMAND_MISMATCHED_WITH_REPLY	Communications Error - The data received back in reply to a command did not match what was sent.
RC_ERR_PCIO_COMMS_FAILED_DETERMINE_SYSTEM_COMM_PORTS	Failed to determine the system USB serial comm ports.
RC_ERR_PCIO_COMMS_FAILED_FIND_CENCON_KEYBOX_CONNECTED_TO_SYSTEM	Failed to find the Cencon USB Key Box as being connected to the system.
RC_ERR_PCIO_COMMS_DEVICE_UNRESPONSIVE_ON_CONNECT	Device is not responsive after opening a connection to it.
RC_ERR_PCIO_COMMS_RECEIVED_DATA_INCOMPLETE	Communications Error - data received in response is incomplete.
RC_ERR_PCIO_COMMS_FAILED_TO_OPEN_SOCKET_EXCEPTION	Communications Error - A TCP communications exception occurred while trying to open the TCP connection.
RC_ERR_PCIO_COMMS_FAILED_TO_SEND_CONNECTION_NOT_CONFIGURED	Communications Error - Failed to send data. Communications connection has not been configured or opened.
RC_ERR_PCIO_COMMS_FAILED_TO_READ_CONNECTION_NOT_CONFIGURED	Communications Error - Failed to read data. Communications connection has not been configured or opened.
RC_ERR_PCIO_COMMS_FAILED_TO_OPEN_AUTHENTICATION_EXCEPTION	Communications Error - An authentication exception occurred while trying to open the TCP secure socket layer connection.
RC_ERR_PCIO_COMMS_FAILED_TO_OPEN_CONNECTION_NOT_CONFIGURED	Communications Error - Failed to open connection. Communications settings have not been configured for connection.
RC_ERR_PCIO_COMMS_ENCRYPTION_REQUIRED	Communications Error - The operation at the device requires the matching encryption to be used to authenticate the operation.
RC_ERR_PCIO_COMMS_DECRYPTION_FAILED	Communications Error - The command sent did not decrypt properly. The wrong encryption is being used for the device operation.
RC_ERR_PCIO_COMMS_UNSUPPORTED_ENCRYPTION_MODE	Communications Error - An unsupported form of encryption was specified with the command. The device does not support the encryption used.
RC_ERR_PCIO_COMMS_ERR_CHANGE_KEY_REQUIRED	The serial communications command received by the lock requires that a change key be inserted into the lock for the command to be executed, to verify access to the container.
RC_ERR_PCIO_COMMS_ERR_DOOR_CLOSED	The serial communications command received by the lock requires that the container door be open for the command to be executed, to verify access to the container.
RC_ERR_PCIO_DRIVER_IS_NOT_OPEN	The WinDriver connection for the Cencon USB Key Box is not open.
RC_ERR_PCIO_NO_ACTIVE_DEVICE_CONNECTED	There is no active device for the Cencon USB Key Box connected to the system.
RC_ERR_PCIO_COMMS_INVALID_NETWORK_ADDRESS	Communications Error - Invalid Network Address. Failed to set up IP address.
RC_ERR_PCIO_COMMS_FAILED_GET_COMMS_STATUS	Communications Error - Failed to query communications status.

RC_ERR_PCIO_COMMS_FAILED_GET_OPERATIONS_STATUS	Communications Error - Failed to query operations status.
RC_ERR_PCIO_COMMS_DEVICE_FIRMWARE_OUT_OF_DATE	Device firmware level is out of date to support current level of remote communications.
RC_ERR_PCIO_COMMS_FAILED_GET_PRODUCT_VERSION_INFO	Communications Error - Failed to query product version information.
RC_ERR_PCIO_COMMS_FAILED_GET_PRODUCT_SERIAL_NUMBER	Communications Error - Failed to query product serial number.
RC_ERR_PCIO_COMMS_FAILED_GET_PRODUCT_STATUS_INFO	Communications Error - Failed to query product status information.
RC_ERR_PCIO_COMMS_FAILED_GET_PRODUCT_HARDWARE_DIAG_INFO	Communications Error - Failed to query product hardware diagnostic information.
RC_ERR_PCIO_COMMS_FAILED_GET_PRODUCT_CLOCK_TIME	Communications Error - Failed to query product onboard clock time.
RC_ERR_PCIO_COMMS_FAILED_GET_LOCK_FLM_MODE_STATUS	Communications Error - Failed to query lock FLM mode status.
RC_ERR_PCIO_COMMS_FAILED_GET_LOCK_ROUTE_MODE_STATUS	Communications Error - Failed to query lock route mode status.
RC_ERR_PCIO_COMMS_FAILED_GET_LOCK_BANK_MODE_STATUS	Communications Error - Failed to query lock bank mode status.
RC_ERR_PCIO_COMMS_FAILED_SETUP_GET_LOCK_AUDIT_TRAIL	Communications Error - Failed to query lock for buffer information to setup for getting lock audit trail.
RC_ERR_PCIO_COMMS_FAILED_GET_LOCK_AUDIT_TRAIL	Communications Error - Failed to query lock for lock audit trail.
RC_ERR_PCIO_COMMS_APP_INTERNAL_EXCEPTION	Internal Application Exception - An internal application exception has occurred. Please contact dormakaba with the details of the unhandled application exception.
RC_ERR_PCIO_COMMS_FAILED_WRITE_LED_INDICATOR_LIGHTS	Communications Error - Failed to write LED indicator light status.
RC_ERR_PCIO_COMMS_FAILED_CONFIGURE_DEFAULT_COMMUNICATIONS_SECURITY	Communications Error - Failed to configure product default communications security.
RC_ERR_PCIO_COMMS_FAILED_CONFIGURE_ACTIVATED_COMMUNICATIONS_SECURITY	Communications Error - Failed to configure product activated communications security.
RC_ERR_PCIO_COMMS_FAILED_READ_LAST_INSTALL_INFO	Communications Error - Failed to read product last install information.
RC_ERR_PCIO_COMMS_KEY_BOX_NUM_INSTALLS_EXCEEDS_INSTALL_RESTRICTION_ON_KEY	The number of times this Cencon USB Key Box has been installed exceeds the install limit restriction on the install key. You will need to contact dormakaba concerning the options chosen when purchasing the Cencon installation.
RC_ERR_PCIO_COMMS_KEY_BOX_FAILED_WRITE_UPDATED_RESTRICTIONS	An error occurred while writing updated restrictions information to the Cencon USB Key Box.
RC_ERR_PCIO_COMMS_KEY_BOX_FAILED_READ_AUDIT_COUNT	An error occurred while reading the audit count from the Cencon USB Key Box.
RC_ERR_PCIO_COMMS_KEY_BOX_FAILED_WRITE_AUDIT_TO_KEY_BOX	An error occurred while writing an audit to the Cencon USB Key Box.
RC_ERR_PCIO_COMMS_KEY_BOX_FAILED_WRITE_LAST_INSTALL	An error occurred while updating the previous install information to the Cencon USB Key Box.
RC_ERR_PCIO_COMMS_INVALID_COMMUNICATIONS_ID	Communications Error - Invalid Communications ID. Failed to find specified TCP/IP connection.
RC_ERR_PCIO_COMMS_UNAVAILABLE_COMMUNICATIONS_ID	Communications Error - Unavailable Communications ID. The specified TCP/IP connection is already in use.
RC_ERR_PCIO_COMMS_OPEN_LOCK_CONNECTION_COMMS_NOT_OPEN	Communications Setup Error - Communications connection for lock is not open.
RC_ERR_PCIO_COMMS_ERR_MODE_CURRENTLY_OPEN_TO_ADVANCE_COMBO_STATE	The serial communications command received by the lock requires that the specified lock mode be closed for the command to be executed, to allow the lock mode combination state to be advanced forward.

The following is a list of error codes (with description) that CenTran could return related to the CenTran internal setup or operations.

Message Name	Message Description
RC_ERR_CENTRAN_FAILED_TO_INIT_KEYBOX_COMMS	CenTran Error - Failed to initialize USB KeyBox secure communications. The USB KeyBox install key may not have been used or did not match the device.
RC_ERR_CENTRAN_FAILED_DATABASE_CHECK_VALID	CenTran Error - The Cencon database validity check failed! The database is either missing data or tables or the database version is incompatible with this version of CenTran.
RC_ERR_CENTRAN_FAILED_DATABASE_CHECK_VERSION_NEWER_THAN_CENTRAN	CenTran Error - The Cencon database version check failed! The database version is newer than this version of CenTran.
RC_ERR_CENTRAN_FAILED_DATABASE_CHECK_VERSION_OLDER_THAN_CENTRAN	CenTran Error - The Cencon database version check failed! The database version is older than this version of CenTran.
RC_ERR_CENTRAN_FAILED_SECURITY_INFO_CHECK_KEYBOX_NOT_PRESENT	CenTran Error - Failed security information check! The USB KeyBox is not present.
RC_ERR_CENTRAN_FAILED_SECURITY_INFO_CHECK_KEYBOX_FIRMWARE_OUT_OF_DATE	CenTran Error - Failed security information check! The USB KeyBox firmware level is out of date.
RC_ERR_CENTRAN_FAILED_SECURITY_INFO_CHECK_KEYBOX_NOT_INSTALLED	CenTran Error - Failed security information check! The USB KeyBox is not set up. The USB KeyBox install key may not have been used or did not match the device.
RC_ERR_CENTRAN_FAILED_SECURITY_INFO_CHECK_DATABASE_CONNECTION_NOT_SET	CenTran Error - Failed security information check! The Cencon database connection is not set.

RC_ERR_CENTRAN_FAILED_SECURITY_INFO_CHECK_COMPANY_NUMBER_NOT_SET	CenTran Error - Failed security information check! The company number is not set.
RC_ERR_CENTRAN_FAILED_SECURITY_INFO_CHECK_DATABASE_CONFIG_NOT_PRESENT	CenTran Error - Failed security information check! The Cencon database configuration information is missing.
RC_ERR_CENTRAN_FAILED_SECURITY_INFO_CHECK_KEYBOX_NOT_MATCH_DATABASE	CenTran Error - Failed security information check! The USB KeyBox security information does not match the Cencon database.
RC_ERR_CENTRAN_FAILED_SECURITY_INFO_CHECK_COMPANY_NUMBER_NOT_MATCH_DATABASE	CenTran Error - Failed security information check! The company number does not match the Cencon database.
RC_ERR_CENTRAN_FAILED_SECURITY_INFO_CHECK	CenTran Error - Failed security information check!
RC_ERR_CENTRAN_FAILED_READ_CENCON_DATABASE_CONFIG	CenTran Error - Failed to read the Cencon database configuration settings!
RC_ERR_CENTRAN_INPUT_FILE_LOCATION_NOT_SET	CenTran Error - Transaction Input file location not set!
RC_ERR_CENTRAN_OUTPUT_FILE_LOCATION_NOT_SET	CenTran Error - Transaction Output file location not set!
RC_ERR_CENTRAN_INPUT_OUTPUT_FILE_SETTINGS_ARE_THE_SAME	CenTran Error - Transaction Input and Output file settings are the same!
RC_ERR_CENTRAN_DEFAULT_DISPATCHER_IS_NOT_SET	CenTran Error - Default dispatcher ID is not set!
RC_ERR_CENTRAN_DEFAULT_DISPATCHER_NOT_FOUND_IN_CENCON_DATABASE	CenTran Error - Default dispatcher ID is not found in the Cencon database! You need to add the ID for the default dispatcher to be used by CenTran.
RC_ERR_CENTRAN_DEFAULT_DISPATCHER_NOT_AUTHORIZED	CenTran Error - Default dispatcher ID is not authorized! The default dispatcher ID is not a logon type user and is not authorized for any transactions.
RC_ERR_CENTRAN_SCHEMA_FILE_NOT_FOUND	CenTran Error - The CenTran XML Schema file is not found! The CenTran XML schema file is missing from the CenTran application directory.
RC_ERR_CENTRAN_FAILED_TO_PARSE_SCHEMA_FILE	CenTran Error - Failed to parse the CenTran XML Schema file! The schema file format could not be read.
RC_ERR_CENTRAN_FAILED_TO_PARSE_SCHEMA_FILE_NET	CenTran Error - Failed to parse the CenTran XML Schema file for .Net! The schema file format could not be read.
RC_ERR_CENTRAN_UNABLE_CHANGE_SETTINGS_CURRENTLY_PROCESSING_TRANSACTIONS	CenTran Error - Unable to change CenTran settings. CenTran is currently processing transactions. To change CenTran settings, you must stop processing transactions and restart processing when the settings changes are complete.
RC_ERR_CENTRAN_UNABLE_CHANGE_SETTINGS_KEYBOX_NOT_SETUP	CenTran Error - Unable to change CenTran settings. The USB KeyBox is not set up. The USB KeyBox install key may not have been used or did not match the device.
RC_ERR_CENTRAN_INVALID_ODBC_DATA_SOURCE_NAME	CenTran Error - Invalid ODBC data source name. The ODBC data source name given does not exist or is invalid.
RC_ERR_CENTRAN_FAILED_DETERMINE_DATABASE_SCHEMA	CenTran Error - Failed to determine Cencon database schema from database connection. A database error occurred.
RC_ERR_CENTRAN_FAILED_DETERMINE_DATABASE_SCHEMA_NONE_FOUND	CenTran Error - Failed to determine Cencon database schema from database connection. No Cencon database was found under any schema.
RC_ERR_CENTRAN_FAILED_DETERMINE_DATABASE_SCHEMA_TOO_MANY_FOUND	CenTran Error - Failed to determine Cencon database schema from database connection. Multiple Cencon databases were found under different schema.
RC_ERR_CENTRAN_INVALID_INPUT_FILE_DIRECTORY	CenTran Error - Failed to set file settings! The specified input file directory is invalid.
RC_ERR_CENTRAN_INVALID_OUTPUT_FILE_DIRECTORY	CenTran Error - Failed to set file settings! The specified output file directory is invalid.
RC_ERR_CENTRAN_INPUT_FILE_DIRECTORY_DOES_NOT_EXIST	CenTran Error - Failed to set file settings! The specified input file directory does not exist.
RC_ERR_CENTRAN_OUTPUT_FILE_DIRECTORY_DOES_NOT_EXIST	CenTran Error - Failed to set file settings! The specified output file directory does not exist.
RC_ERR_CENTRAN_INPUT_OUTPUT_FILE_SETTINGS_THE_SAME	CenTran Error - Failed to set file settings! The specified input and output file settings match. There is no way to identify input files from output files.
RC_ERR_CENTRAN_EMPTY_COMPANY_NUMBER	CenTran Error - Failed to set company number! The specified company number is empty.
RC_ERR_CENTRAN_INVALID_COMPANY_NUMBER	CenTran Error - Failed to set company number! The specified company number is invalid.
RC_ERR_CENTRAN_FAILED_READ_COMPANY_NUMBER_INFO_FROM_DATABASE	CenTran Error - Failed to read company number information from the Cencon database! The Cencon database may not have been completely set up from a Cencon installation.
RC_ERR_CENTRAN_FAILED_COMPANY_NUMBER_INFO_FROM_DATABASE_INVALID	CenTran Error - The company number information from the Cencon database is invalid! The Cencon database may not have been set up from a Cencon installation, or your security device does not match the Cencon database installation.
RC_ERR_CENTRAN_FAILED_READ_SECURITY_DEVICE_INFO_FROM_DATABASE	CenTran Error - Failed to read the security device information from the Cencon database! The Cencon database may not have been completely set up from a Cencon installation.
RC_ERR_CENTRAN_FAILED_SECURITY_DEVICE_INFO_FROM_DATABASE_INVALID	CenTran Error - The security device information from the Cencon database is invalid! The Cencon database may not have been set up from a Cencon installation, or your security device does not match the Cencon database installation.

RC_ERR_CENTRAN_FAILED_COMPANY_NUMBER_INFO_FROM_DATABASE_DOESNT_MATCH	CenTran Error - The specified company number does not match the Cencon database! You have either entered the company number incorrectly for your Cencon database or are incorrectly accessing another customer Cencon database installation.
RC_ERR_CENTRAN_FAILED_SECURITY_DEVICE_INFO_FROM_DATABASE_DOESNT_MATCH	CenTran Error - The security device information does not match the Cencon database! Your security device does not match the security set up for the connected Cencon database. You may be incorrectly accessing another customer Cencon database installation, or have an incorrectly set up security device.
RC_ERR_CENTRAN_INVALID_DEFAULT_DISPATCHER_ID	CenTran Error - Failed to set default dispatcher ID settings! The specified default dispatcher ID is invalid.
RC_ERR_CENTRAN_DATABASE_CONNECTION_USER_INVALID_NOT_MEMBER_CENCON_ROLE	CenTran Error - The database connection is invalid. The database user specified for the connection is not a member of the Cencon database role.
RC_ERR_CENTRAN_MISSING_INPUT_RECORD_FOR_TRANSACTION	CenTran Error - The expected input record for the transaction is invalid or missing. The call to CenTran was not provided the required data.
RC_ERR_CENTRAN_BETA_EXPIRED	CenTran Error - This CenTran Beta installation has expired. Transactions halted. Contact dormakaba Technical Support.
RC_ERR_CENTRAN_BETA_EXPIRE_WARNING	CenTran Error - This CenTran Beta installation will soon expire. Transactions will halt upon expiration.
RC_ERR_CENTRAN_RECEIVED_INVALID_XML_TRANSACTION	Centran Error - Received transaction with invalid XML formatting or data. Transaction can't be parsed into valid data to be processed.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_SERVICE_MODEL_CERTIFICATE_VALUE_BLANK	Centran Error - Failed to validate CenTran configuration file! One or more values to find the web service credentials certificate are blank in the CenTran configuration file (CenTran.exe.config). Use the CenTran Configuration Manager to set up the CenTran web service certificates.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_EXCEPTION	Centran Error - Failed to validate CenTran configuration file! An exception occurred while validating the CenTran configuration file settings.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_FAILED_OPEN	Centran Error - Failed to validate CenTran configuration file! Unable to open configuration file for validation.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_EXCEPTION_FAILED_OPEN	Centran Error - Failed to validate CenTran configuration file! Unable to open configuration file for validation. An exception occurred while attempting to load the configuration file.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_SYSTEM_SERVICE_MODEL_SECTION_GROUP	Centran Error - Failed to validate CenTran configuration file! Failed to find the 'system.serviceModel' section group in the configuration file.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_BEHAVIORS_SECTION	Centran Error - Failed to validate CenTran configuration file! Failed to find the 'behaviors' section in the 'system.serviceModel' section group in the configuration file.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_NO_SERVICE_BEHAVIORS_DEFINED	Centran Error - Failed to validate CenTran configuration file! No service behaviors defined in the 'behaviors' section in the 'system.serviceModel' section group in the configuration file.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_NO_SERVICE_BEHAVIOR_CERTIFICATE_DEFINED	Centran Error - Failed to validate CenTran configuration file! No certificate defined for service behavior in the 'behaviors' section in the 'system.serviceModel' section group in the configuration file.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_CERTIFICATE_NOT_FOUND_IN_MACHINE_STORE	Centran Error - Failed to validate CenTran configuration file! Server local machine certificate store does not contain a certificate defined for service behavior in the 'behaviors' section in the 'system.serviceModel' section group in the configuration file.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_APP_SETTINGS_SECTION	Centran Error - Failed to validate CenTran configuration file! Failed to find the 'appSettings' section in the configuration file. The application settings configuration section is missing.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_APP_SETTINGS_NO_MANAGEMENT_CERTIFICATE	Centran Error - Failed to validate CenTran configuration file! Failed to find the 'HTTP_Management_Certificate_Thumbprint' entry in the configuration file application settings. The application settings configuration section entry for CenTran web based management security certificate is missing.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_APP_SETTINGS_MANAGEMENT_CERTIFICATE_BLANK	Centran Error - Failed to validate CenTran configuration file! Value for 'HTTP_Management_Certificate_Thumbprint' entry in the configuration file application settings is blank. The application settings configuration section entry for CenTran web based management security certificate has not been set.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_MANAGEMENT_CERTIFICATE_NOT_FOUND	Centran Error - Failed to validate CenTran configuration file! Server local machine certificate store does not contain the certificate defined for the CenTran web based management security certificate in the configuration file.

RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_APP_SETTINGS_NO_MANAGEMENT_URL	Centran Error - Failed to validate Centran configuration file! Failed to find the 'HTTP_Management_URL' entry in the configuration file application settings. The application settings configuration section entry for Centran web based management URL is missing.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_APP_SETTINGS_MANAGEMENT_URL_BLANK	Centran Error - Failed to validate Centran configuration file! Value for 'HTTP_Management_URL' entry in the configuration file application settings is blank. The application settings configuration section entry for Centran web based management URL has not been set.
RC_ERR_CENTRAN_VALIDATE_CONFIG_FILE_APP_SETTINGS_MANAGEMENT_CERTIFICATE_INVALID	Centran Error - Failed to validate Centran configuration file! Value for 'HTTP_Management_Certificate_Thumbprint' entry in the configuration file application settings is not a valid hexadecimal certificate thumb print value. The application settings configuration section entry for Centran web based management security certificate is corrupt.

The following is a list of error codes (with description) that could be returned by the Centran Agent usage of the Centran API. These error codes are mapped from the Centran API error codes.

Message Name	Message Description
RC_ERR_CENTRAN_API_unknown_CentranAPI_error_code	Centran API Error - The Centran API Error result is an unknown code or new code not supported by this software.
RC_ERR_CENTRAN_API_centran_returned_transaction_partially_successful	Centran API Error - The transaction was partially successful. Each of the affected items involved with the transaction will have an error code indicating success or failure.
RC_ERR_CENTRAN_API_centran_returned_transaction_failed	Centran API Error - The transaction failed.
RC_ERR_CENTRAN_API_centran_transaction_not_implemented	Centran API Error - The transaction is not yet implemented by Centran.
RC_ERR_CENTRAN_API_error_schema_file_not_found	Centran API Error - The schema file for Centran was not found.
RC_ERR_CENTRAN_API_error_input_transaction_file_name_invalid	Centran API Error - The transaction input file name for file based transactions is invalid.
RC_ERR_CENTRAN_API_error_input_transaction_uri_invalid	Centran API Error - The transaction input URI for web service based transactions is invalid.
RC_ERR_CENTRAN_API_error_input_directory_invalid	Centran API Error - The transaction input directory for file based transactions is invalid.
RC_ERR_CENTRAN_API_error_output_directory_invalid	Centran API Error - The transaction output directory for file based transactions is invalid.
RC_ERR_CENTRAN_API_error_schema_path_invalid	Centran API Error - The file path for the schema file is invalid.
RC_ERR_CENTRAN_API_error_timeout_value_invalid	Centran API Error - The timeout value for Centran file based transactions is an invalid value.
RC_ERR_CENTRAN_API_error_centran_input_output_file_extensions_and_directories_are_the_same	Centran API Error - The input and output file name extensions and file directories are the same for file based transactions.
RC_ERR_CENTRAN_API_error_centran_api_not_initialized_with_xml_schema	Centran API Error - The Centran API has not been initialized with a valid XML schema for Centran.
RC_ERR_CENTRAN_API_error_exception_during_centran_api_init	Centran API Error - An exception occurred during the Centran API initialization.
RC_ERR_CENTRAN_API_error_exception_during_centran_api_init_invalid_argument	Centran API Error - An exception occurred during the Centran API initialization. An invalid argument was encountered.
RC_ERR_CENTRAN_API_error_timed_out_waiting_for_centran_response	Centran API Error - Timed out waiting for a response from Centran during file based transactions.
RC_ERR_CENTRAN_API_error_failed_to_validate_centran_response_xml	Centran API Error - Failed to validate the Centran response XML data.
RC_ERR_CENTRAN_API_error_exception_while_validating_centran_response_xml	Centran API Error - An exception occurred while attempting to validate the Centran response XML data.
RC_ERR_CENTRAN_API_error_exception_during_communications	Centran API Error - An unknown exception occurred during API communications.
RC_ERR_CENTRAN_API_error_internal_error_centran_response_data_is_null	Centran API Error - The data returned from Centran is NULL. An internal error may have occurred with Centran.
RC_ERR_CENTRAN_API_error_internal_error_expected_centran_response_is_missing	Centran API Error - The expected Centran response is missing. An internal error may have occurred with Centran.
RC_ERR_CENTRAN_API_error_internal_error_centran_result_record_is_missing	Centran API Error - The expected Centran result record is missing from the response. An internal error may have occurred with Centran.
RC_ERR_CENTRAN_API_error_internal_error_failed_to_convert_centran_query_count_response	Centran API Error - Failed to convert the Centran query count response. An internal error may have occurred with Centran.
RC_ERR_CENTRAN_API_error_input_data_to_api_call_is_invalid	Centran API Error - The input data to an API call is invalid.
RC_ERR_CENTRAN_API_web_service_Continue	Centran API Error - HTTP status 100. Continue indicates that the client can continue with its request.
RC_ERR_CENTRAN_API_web_service_SwitchingProtocols	Centran API Error - HTTP status 101. SwitchingProtocols indicates that the protocol version or protocol is being changed.

RC_ERR_CENTRAN_API_web_service_Created	Centran API Error - HTTP status 201. Created indicates that the request resulted in a new resource created before the response was sent.
RC_ERR_CENTRAN_API_web_service_Accepted	Centran API Error - HTTP status 202. Accepted indicates that the request has been accepted for further processing.
RC_ERR_CENTRAN_API_web_service_NonAuthoritativeInformation	Centran API Error - HTTP status 203. NonAuthoritativeInformation indicates that the returned metainformation is from a cached copy instead of the origin server and therefore may be incorrect.
RC_ERR_CENTRAN_API_web_service_NoContent	Centran API Error - HTTP status 204. NoContent indicates that the request has been successfully processed and that the response is intentionally blank.
RC_ERR_CENTRAN_API_web_service_ResetContent	Centran API Error - HTTP status 205. ResetContent indicates that the client should reset (not reload) the current resource.
RC_ERR_CENTRAN_API_web_service_PartialContent	Centran API Error - HTTP status 206. PartialContent indicates that the response is a partial response as requested by a GET request that includes a byte range.
RC_ERR_CENTRAN_API_web_service_MultipleChoices	Centran API Error - HTTP status 300. MultipleChoices indicates that the requested information has multiple representations. The default action is to treat this status as a redirect and follow the contents of the Location header associated with this response. MultipleChoices is a synonym for Ambiguous.
RC_ERR_CENTRAN_API_web_service_Ambiguous	Centran API Error - HTTP status 300. Ambiguous indicates that the requested information has multiple representations. The default action is to treat this status as a redirect and follow the contents of the Location header associated with this response. Ambiguous is a synonym for MultipleChoices.
RC_ERR_CENTRAN_API_web_service_MovedPermanently	Centran API Error - HTTP status 301. MovedPermanently indicates that the requested information has been moved to the URI specified in the Location header. The default action when this status is received is to follow the Location header associated with the response. MovedPermanently is a synonym for Moved.
RC_ERR_CENTRAN_API_web_service_Moved	Centran API Error - HTTP status 301. Moved indicates that the requested information has been moved to the URI specified in the Location header. The default action when this status is received is to follow the Location header associated with the response. When the original request method was POST, the redirected request will use the GET method. Moved is a synonym for MovedPermanently.
RC_ERR_CENTRAN_API_web_service_Found	Centran API Error - HTTP status 302. Found indicates that the requested information is located at the URI specified in the Location header. The default action when this status is received is to follow the Location header associated with the response. When the original request method was POST, the redirected request will use the GET method. Found is a synonym for Redirect.
RC_ERR_CENTRAN_API_web_service_Redirect	Centran API Error - HTTP status 302. Redirect indicates that the requested information is located at the URI specified in the Location header. The default action when this status is received is to follow the Location header associated with the response. When the original request method was POST, the redirected request will use the GET method. Redirect is a synonym for Found.
RC_ERR_CENTRAN_API_web_service_SeeOther	Centran API Error - HTTP status 303. SeeOther automatically redirects the client to the URI specified in the Location header as the result of a POST. The request to the resource specified by the Location header will be made with a GET. SeeOther is a synonym for RedirectMethod.
RC_ERR_CENTRAN_API_web_service_RedirectMethod	Centran API Error - HTTP status 303. RedirectMethod automatically redirects the client to the URI specified in the Location header as the result of a POST. The request to the resource specified by the Location header will be made with a GET. RedirectMethod is a synonym for SeeOther.
RC_ERR_CENTRAN_API_web_service_NotModified	Centran API Error - HTTP status 304. NotModified indicates that the client's cached copy is up to date. The contents of the resource are not transferred.
RC_ERR_CENTRAN_API_web_service_UseProxy	Centran API Error - HTTP status 305. UseProxy indicates that the request should use the proxy server at the URI specified in the Location header.
RC_ERR_CENTRAN_API_web_service_Unused	Centran API Error - HTTP status 306. Unused is a proposed extension to the HTTP/1.1 specification that is not fully specified.
RC_ERR_CENTRAN_API_web_service_TemporaryRedirect	Centran API Error - HTTP status 307. TemporaryRedirect indicates that the request information is located at the URI specified in the Location header. The default action when this status is received is to follow the Location header associated with the response. When the original request method was POST, the redirected request will also use the POST method. TemporaryRedirect is a synonym for RedirectKeepVerb.

RC_ERR_CENTRAN_API_web_service_RedirectKeepVerb	Centran API Error - HTTP status 307. RedirectKeepVerb indicates that the request information is located at the URI specified in the Location header. The default action when this status is received is to follow the Location header associated with the response. When the original request method was POST, the redirected request will also use the POST method. RedirectKeepVerb is a synonym for TemporaryRedirect.
RC_ERR_CENTRAN_API_web_service_BadRequest	Centran API Error - HTTP status 400. BadRequest indicates that the request could not be understood by the server. BadRequest is sent when no other error is applicable, or if the exact error is unknown or does not have its own error code.
RC_ERR_CENTRAN_API_web_service_Unauthorized	Centran API Error - HTTP status 401. Unauthorized indicates that the requested resource requires authentication. The WWW-Authenticate header contains the details of how to perform the authentication.
RC_ERR_CENTRAN_API_web_service_PaymentRequired	Centran API Error - HTTP status 402. PaymentRequired is reserved for future use.
RC_ERR_CENTRAN_API_web_service_Forbidden	Centran API Error - HTTP status 403. Forbidden indicates that the server refuses to fulfill the request.
RC_ERR_CENTRAN_API_web_service_NotFound	Centran API Error - HTTP status 404. NotFound indicates that the requested resource does not exist on the server.
RC_ERR_CENTRAN_API_web_service_MethodNotAllowed	Centran API Error - HTTP status 405. MethodNotAllowed indicates that the request method (POST or GET) is not allowed on the requested resource.
RC_ERR_CENTRAN_API_web_service_NotAcceptable	Centran API Error - HTTP status 406. NotAcceptable indicates that the client has indicated with Accept headers that it will not accept any of the available representations of the resource.
RC_ERR_CENTRAN_API_web_service_ProxyAuthenticationRequired	Centran API Error - HTTP status 407. ProxyAuthenticationRequired indicates that the requested proxy requires authentication. The Proxy-authenticate header contains the details of how to perform the authentication.
RC_ERR_CENTRAN_API_web_service_RequestTimeout	Centran API Error - HTTP status 408. RequestTimeout indicates that the client did not send a request within the time the server was expecting the request.
RC_ERR_CENTRAN_API_web_service_Conflict	Centran API Error - HTTP status 409. Conflict indicates that the request could not be carried out because of a conflict on the server.
RC_ERR_CENTRAN_API_web_service_Gone	Centran API Error - HTTP status 410. Gone indicates that the requested resource is no longer available.
RC_ERR_CENTRAN_API_web_service_LengthRequired	Centran API Error - HTTP status 411. LengthRequired indicates that the required Content-length header is missing.
RC_ERR_CENTRAN_API_web_service_PreconditionFailed	Centran API Error - HTTP status 412. PreconditionFailed indicates that a condition set for this request failed, and the request cannot be carried out. Conditions are set with conditional request headers like If-Match, If-None-Match, or If-Unmodified-Since.
RC_ERR_CENTRAN_API_web_service_RequestEntityTooLarge	Centran API Error - HTTP status 413. RequestEntityTooLarge indicates that the request is too large for the server to process.
RC_ERR_CENTRAN_API_web_service_RequestUriTooLong	Centran API Error - HTTP status 414. RequestUriTooLong indicates that the URI is too long.
RC_ERR_CENTRAN_API_web_service_UnsupportedMediaType	Centran API Error - HTTP status 415. UnsupportedMediaType indicates that the request is an unsupported type.
RC_ERR_CENTRAN_API_web_service_RequestedRangeNotSatisfiable	Centran API Error - HTTP status 416. RequestedRangeNotSatisfiable indicates that the range of data requested from the resource cannot be returned, either because the beginning of the range is before the beginning of the resource, or the end of the range is after the end of the resource.
RC_ERR_CENTRAN_API_web_service_ExpectationFailed	Centran API Error - HTTP status 417. ExpectationFailed indicates that an expectation given in an Expect header could not be met by the server.
RC_ERR_CENTRAN_API_web_service_InternalServerError	Centran API Error - HTTP status 500. InternalServerError indicates that a generic error has occurred on the server.
RC_ERR_CENTRAN_API_web_service_NotImplemented	Centran API Error - HTTP status 501. NotImplemented indicates that the server does not support the requested function.
RC_ERR_CENTRAN_API_web_service_BadGateway	Centran API Error - HTTP status 502. BadGateway indicates that an intermediate proxy server received a bad response from another proxy or the origin server.
RC_ERR_CENTRAN_API_web_service_ServiceUnavailable	Centran API Error - HTTP status 503. ServiceUnavailable indicates that the server is temporarily unavailable, usually due to high load or maintenance.
RC_ERR_CENTRAN_API_web_service_GatewayTimeout	Centran API Error - HTTP status 504. GatewayTimeout indicates that an intermediate proxy server timed out while waiting for a response from another proxy or the origin server.

RC_ERR_CENTRAN_API_web_service_HttpVersionNotSupported	Centran API Error - HTTP status 505. HttpVersionNotSupported indicates that the requested HTTP version is not supported by the server.
RC_ERR_CENTRAN_API_web_service_UnknownErrorType	Centran API Error - An unknown type of HTTP error occurred with the response from the Centran web service.
RC_ERR_CENTRAN_API_soap_no_response	Centran API Error - A call to the SOAP web service did not respond.
RC_ERR_CENTRAN_API_soap_exception	Centran API Error - A call to the SOAP web service resulted in an exception.
RC_ERR_CENTRAN_API_web_exception_NameResolutionFailure	Centran API Error - The name resolver service could not resolve the host name.
RC_ERR_CENTRAN_API_web_exception_ConnectFailure	Centran API Error - The remote service point could not be contacted at the transport level.
RC_ERR_CENTRAN_API_web_exception_ReceiveFailure	Centran API Error - A complete response was not received from the remote server.
RC_ERR_CENTRAN_API_web_exception_SendFailure	Centran API Error - A complete request could not be sent to the remote server.
RC_ERR_CENTRAN_API_web_exception_PipelineFailure	Centran API Error - The request was a pipelined request and the connection was closed before the response was received.
RC_ERR_CENTRAN_API_web_exception_RequestCanceled	Centran API Error - The request was canceled, aborted, or an unclassifiable error occurred. This is the default value for Status.
RC_ERR_CENTRAN_API_web_exception_ProtocolError	Centran API Error - The response received from the server was complete but indicated a protocol-level error. For example, an HTTP protocol error such as 401 Access Denied would use this status.
RC_ERR_CENTRAN_API_web_exception_ConnectionClosed	Centran API Error - The connection was prematurely closed.
RC_ERR_CENTRAN_API_web_exception_TrustFailure	Centran API Error - A server certificate could not be validated.
RC_ERR_CENTRAN_API_web_exception_SecureChannelFailure	Centran API Error - An error occurred while establishing a connection using SSL.
RC_ERR_CENTRAN_API_web_exception_ServerProtocolViolation	Centran API Error - The server response was not a valid HTTP response.
RC_ERR_CENTRAN_API_web_exception_KeepAliveFailure	Centran API Error - The connection for a request that specifies the Keep-alive header was closed unexpectedly.
RC_ERR_CENTRAN_API_web_exception_Pending	Centran API Error - An internal asynchronous request is pending.
RC_ERR_CENTRAN_API_web_exception_Timeout	Centran API Error - No response was received during the time-out period for a request.
RC_ERR_CENTRAN_API_web_exception_ProxyNameResolutionFailure	Centran API Error - The name resolver service could not resolve the proxy host name.
RC_ERR_CENTRAN_API_web_exception_UnknownError	Centran API Error - An exception of unknown type has occurred.
RC_ERR_CENTRAN_API_web_exception_MessageLengthLimitExceeded	Centran API Error - A message was received that exceeded the specified limit when sending a request or receiving a response from the server.
RC_ERR_CENTRAN_API_web_exception_CacheEntryNotFound	Centran API Error - The specified cache entry was not found.
RC_ERR_CENTRAN_API_web_exception_RequestProhibitedByCachePolicy	Centran API Error - The request was not permitted by the cache policy. In general, this occurs when a request is not cacheable and the effective policy prohibits sending the request to the server. You might receive this status if a request method implies the presence of a request body, a request method requires direct interaction with the server, or a request contains a conditional header.
RC_ERR_CENTRAN_API_web_exception_RequestProhibitedByProxy	Centran API Error - This request was not permitted by the proxy.

The following is a list of error codes (with description) that could be returned by commands to the Centran Agent. The Centran Agent programming guide has details on the Centran Agent commands.

Message Name	Message Description
RC_ERR_CENTRAN_AGENT_SET_TCP_TIMEOUT_ERROR	Centran Agent Error - An exception occurred while trying to set a timeout limit on a network connection
RC_ERR_CENTRAN_AGENT_TCP_READ_EXCEPTION	Centran Agent Error - An exception occurred trying to read from a network connection
RC_ERR_CENTRAN_AGENT_TCP_WRITE_EXCEPTION	Centran Agent Error - An exception occurred trying to write to a network connection
RC_ERR_CENTRAN_AGENT_INCOMPLETE_TCP_FRAME	Centran Agent Error - An error occurred reading from a network connection
RC_ERR_CENTRAN_AGENT_INCOMPLETE_LOCK_FRAME	Centran Agent Error - An error occurred reading from the lock
RC_ERR_CENTRAN_AGENT_CONNECTION_TIMEOUT	Centran Agent Error - A network connection timed out
RC_ERR_CENTRAN_AGENT_HEARTBEAT_TIMEOUT	Centran Agent Error - A persistent connection timed out
RC_ERR_CENTRAN_AGENT_UNABLE_TO_OPEN_LOCK_CONNECTION	Centran Agent Error - Unable to open connection to the lock

The following is a list of error codes (with description) that could be returned by Centran related to Windows Sockets network communications.

Message Name	Message Description

RC_ERR_WSA_INVALID_HANDLE	Windows Socket Error - Specified event object handle is invalid. An application attempts to use an event object, but the specified handle is not valid. Note that this error is returned by the operating system, so the error number may change in future releases of Windows.
RC_ERR_WSA_NOT_ENOUGH_MEMORY	Windows Socket Error - Insufficient memory available. An application used a Windows Sockets function that directly maps to a Windows function. The Windows function is indicating a lack of required memory resources. Note that this error is returned by the operating system, so the error number may change in future releases of Windows.
RC_ERR_WSA_INVALID_PARAMETER	Windows Socket Error - One or more parameters are invalid. An application used a Windows Sockets function which directly maps to a Windows function. The Windows function is indicating a problem with one or more parameters. Note that this error is returned by the operating system, so the error number may change in future releases of Windows.
RC_ERR_WSA_OPERATION_ABORTED	Windows Socket Error - Overlapped operation aborted. An overlapped operation was canceled due to the closure of the socket, or the execution of the SIO_FLUSH command in WSAIocctl. Note that this error is returned by the operating system, so the error number may change in future releases of Windows.
RC_ERR_WSA_IO_INCOMPLETE	Windows Socket Error - Overlapped I/O event object not in signaled state. The application has tried to determine the status of an overlapped operation which is not yet completed. Applications that use WSAGetOverlappedResult (with the fWait flag set to FALSE) in a polling mode to determine when an overlapped operation has completed, get this error code until the operation is complete. Note that this error is returned by the operating system, so the error number may change in future releases of Windows.
RC_ERR_WSA_IO_PENDING	Windows Socket Error - Overlapped operations will complete later. The application has initiated an overlapped operation that cannot be completed immediately. A completion indication will be given later when the operation has been completed. Note that this error is returned by the operating system, so the error number may change in future releases of Windows.
RC_ERR_WSAEINTR	Windows Socket Error - Interrupted function call. A blocking operation was interrupted by a call to WSACancelBlockingCall.
RC_ERR_WSAEBADF	Windows Socket Error - File handle is not valid. The file handle supplied is not valid.
RC_ERR_WSAEACCES	Windows Socket Error - Permission denied. An attempt was made to access a socket in a way forbidden by its access permissions. An example is using a broadcast address for sendto without broadcast permission being set using setsockopt(SO_BROADCAST). Another possible reason for the WSAEACCES error is that when the bind function is called (on Windows NT 4.0 with SP4 and later), another application, service, or kernel mode driver is bound to the same address with exclusive access.
RC_ERR_WSAEFAULT	Windows Socket Error - Bad address. The system detected an invalid pointer address in attempting to use a pointer argument of a call. This error occurs if an application passes an invalid pointer value, or if the length of the buffer is too small. For instance, if the length of an argument, which is a sockaddr structure, is smaller than the sizeof(sockaddr).
RC_ERR_WSAEINVAL	Windows Socket Error - Invalid argument. Some invalid argument was supplied (for example, specifying an invalid level to the setsockopt function). In some instances, it also refers to the current state of the socket? for instance, calling accept on a socket that is not listening.
RC_ERR_WSAEMFILE	Windows Socket Error - Too many open files. Too many open sockets. Each implementation may have a maximum number of socket handles available, either globally, per process, or per thread.
RC_ERR_WSAEWOULDBLOCK	Windows Socket Error - Resource temporarily unavailable. This error is returned from operations on nonblocking sockets that cannot be completed immediately, for example recv when no data is queued to be read from the socket. It is a nonfatal error, and the operation should be retried later. It is normal for WSAEWOULDBLOCK to be reported as the result from calling connect on a nonblocking SOCK_STREAM socket, since some time must elapse for the connection to be established.
RC_ERR_WSAEINPROGRESS	Windows Socket Error - Operation now in progress. A blocking operation is currently executing. Windows Sockets only allows a single blocking operation?per- task or thread?to be outstanding, and if any other function call is made (whether or not it references that or any other socket) the function fails with the WSAEINPROGRESS error.
RC_ERR_WSAEALREADY	Windows Socket Error - Operation already in progress. An operation was attempted on a nonblocking socket with an operation already in progress?that is, calling connect a second time on a nonblocking socket that is already connecting, or canceling an asynchronous request (WSAAsyncGetXbyY) that has already been canceled or completed.
RC_ERR_WSAENOTSOCK	Windows Socket Error - Socket operation on nonsocket. An operation was attempted on something that is not a socket. Either the socket handle parameter did not reference a valid socket, or for select, a member of an fd_set was not valid.
RC_ERR_WSAEDESTADDRREQ	Windows Socket Error - Destination address required. A required address was omitted from an operation on a socket. For example, this error is returned if sendto is called with the remote address of ADDR_ANY.
RC_ERR_WSAEMSGSIZE	Windows Socket Error - Message too long. A message sent on a datagram socket was larger than the internal message buffer or some other network limit, or the buffer used to receive a datagram was smaller than the datagram itself.
RC_ERR_WSAEPROTOTYPE	Windows Socket Error - Protocol wrong type for socket. A protocol was specified in the socket function call that does not support the semantics of the socket type requested. For example, the ARPA Internet UDP protocol cannot be specified with a socket type of SOCK_STREAM.
RC_ERR_WSAENOPROTOOPT	Windows Socket Error - Bad protocol option. An unknown, invalid or unsupported option or level was specified in a getsockopt or setsockopt call.
RC_ERR_WSAEPROTONOSUPPORT	Windows Socket Error - Protocol not supported. The requested protocol has not been configured into the system, or no implementation for it exists. For example, a socket call requests a SOCK_DGRAM socket, but specifies a stream protocol.
RC_ERR_WSAESOCKTNOSUPPORT	Windows Socket Error - Socket type not supported. The support for the specified socket type does not exist in this address family. For example, the optional type SOCK_RAW might be selected in a socket call, and the implementation does not support SOCK_RAW sockets at all.
RC_ERR_WSAEOPNOTSUPP	Windows Socket Error - Operation not supported. The attempted operation is not supported for the type of object referenced. Usually this occurs when a socket descriptor to a socket that cannot support this operation is trying to accept a connection on a datagram socket.
RC_ERR_WSAEPFNOSUPPORT	Windows Socket Error - Protocol family not supported. The protocol family has not been configured into the system or no implementation for it exists. This message has a slightly different meaning from WSAEAFNOSUPPORT. However, it is interchangeable in most cases, and all Windows Sockets functions that return one of these messages also specify WSAEAFNOSUPPORT.
RC_ERR_WSAEAFNOSUPPORT	Windows Socket Error - Address family not supported by protocol family. An address incompatible with the requested protocol was used. All sockets are created with an associated address family (that is, AF_INET for Internet Protocols) and a generic protocol type (that is, SOCK_STREAM). This error is returned if an incorrect protocol is explicitly requested in the socket call, or if an address of the wrong family is used for a socket, for example, in sendto.
RC_ERR_WSAEADDRINUSE	Windows Socket Error - Address already in use. Typically, only one usage of each socket address (protocol/IP address/port) is permitted. This error occurs if an application attempts to bind a socket to an IP address/port that has already been used for an existing socket, or a socket that was not closed properly, or one that is still in the process of closing. For server applications that need to bind multiple sockets to the same port number, consider using setsockopt(SO_REUSEADDR). Client applications usually need not call bind at all?connect chooses an unused port automatically. When bind is called with a wildcard address (involving ADDR_ANY), a WSAEADDRINUSE error could be delayed until the specific address is committed. This could happen with a call to another function later, including connect, listen, WSACconnect, or WSAJoinLeaf.

RC_ERR_WSAEADDRNOTAVAIL	Windows Socket Error - Cannot assign requested address. The requested address is not valid in its context. This normally results from an attempt to bind to an address that is not valid for the local computer. This can also result from connect, sendto, WSAConnect, WSAJoinLeaf, or WSAConnectTo when the remote address or port is not valid for a remote computer (for example, address or port 0).
RC_ERR_WSAENETDOWN	Windows Socket Error - Network is down. A socket operation encountered a dead network. This could indicate a serious failure of the network system (that is, the protocol stack that the Windows Sockets DLL runs over), the network interface, or the local network itself.
RC_ERR_WSAENETUNREACH	Windows Socket Error - Network is unreachable. A socket operation was attempted to an unreachable network. This usually means the local software knows no route to reach the remote host.
RC_ERR_WSAENETRESET	Windows Socket Error - Network dropped connection on reset. The connection has been broken due to keep-alive activity detecting a failure while the operation was in progress. It can also be returned by setsockopt if an attempt is made to set SO_KEEPALIVE on a connection that has already failed.
RC_ERR_WSAECONNABORTED	Windows Socket Error - Software caused connection abort. An established connection was aborted by the software in your host computer, possibly due to a data transmission time-out or protocol error.
RC_ERR_WSAECONNRESET	Windows Socket Error - Connection reset by peer. An existing connection was forcibly closed by the remote host. This normally results if the peer application on the remote host is suddenly stopped, the host is rebooted, the host or remote network interface is disabled, or the remote host uses a hard close (see setsockopt for more information on the SO_LINGER option on the remote socket). This error may also result if a connection was broken due to keep-alive activity detecting a failure while one or more operations are in progress. Operations that were in progress fail with WSAENETRESET. Subsequent operations fail with WSAECONNRESET.
RC_ERR_WSAENOBUFS	Windows Socket Error - No buffer space available. An operation on a socket could not be performed because the system lacked sufficient buffer space or because a queue was full.
RC_ERR_WSAEISCONN	Windows Socket Error - Socket is already connected. A connect request was made on an already-connected socket. Some implementations also return this error if sendto is called on a connected SOCK_DGRAM socket (for SOCK_STREAM sockets, the to parameter in sendto is ignored) although other implementations treat this as a legal occurrence.
RC_ERR_WSAENOTCONN	Windows Socket Error - Socket is not connected. A request to send or receive data was disallowed because the socket is not connected and (when sending on a datagram socket using sendto) no address was supplied. Any other type of operation might also return this error?for example, setsockopt setting SO_KEEPALIVE if the connection has been reset.
RC_ERR_WSAESHUTDOWN	Windows Socket Error - Cannot send after socket shutdown. A request to send or receive data was disallowed because the socket had already been shut down in that direction with a previous shutdown call. By calling shutdown a partial close of a socket is requested, which is a signal that sending or receiving, or both have been discontinued.
RC_ERR_WSAETOOMANYREFS	Windows Socket Error - Too many references. Too many references to some kernel object.
RC_ERR_WSAETIMEDOUT	Windows Socket Error - Connection timed out. A connection attempt failed because the connected party did not properly respond after a period of time, or the established connection failed because the connected host has failed to respond.
RC_ERR_WSAECONNREFUSED	Windows Socket Error - Connection refused. No connection could be made because the target computer actively refused it. This usually results from trying to connect to a service that is inactive on the foreign host?that is, one with no server application running.
RC_ERR_WSAELOOP	Windows Socket Error - Cannot translate a name.
RC_ERR_WSAENAMETOOLONG	Windows Socket Error - Name too long. A name component or a name was too long.
RC_ERR_WSAEHOSTDOWN	Windows Socket Error - Host is down. A socket operation failed because the destination host is down. A socket operation encountered a dead host. Networking activity on the local host has not been initiated. These conditions are more likely to be indicated by the error WSAETIMEDOUT.
RC_ERR_WSAEHOSTUNREACH	Windows Socket Error - No route to host. A socket operation was attempted to an unreachable host. See WSAENETUNREACH.
RC_ERR_WSAENOTEMPTY	Windows Socket Error - Directory not empty. Cannot remove a directory that is not empty.
RC_ERR_WSAEPROCLIM	Windows Socket Error - Too many processes. A Windows Sockets implementation may have a limit on the number of applications that can use it simultaneously. WSASStartup may fail with this error if the limit has been reached.
RC_ERR_WSAEUSERS	Windows Socket Error - User quota exceeded. Ran out of user quota.
RC_ERR_WSAEDQUOT	Windows Socket Error - Disk quota exceeded. Ran out of disk quota.
RC_ERR_WSAESTALE	Windows Socket Error - Stale file handle reference. The file handle reference is no longer available.
RC_ERR_WSAEREMOTE	Windows Socket Error - Item is remote. The item is not available locally.
RC_ERR_WSASYSNOTREADY	Windows Socket Error - Network subsystem is unavailable. This error is returned by WSASStartup if the Windows Sockets implementation cannot function at this time because the underlying system it uses to provide network services is currently unavailable.
RC_ERR_WSAVERNOTSUPPORTED	Windows Socket Error - Winsock.dll version out of range. The current Windows Sockets implementation does not support the Windows Sockets specification version requested by the application. Check that no old Windows Sockets DLL files are being accessed.
RC_ERR_WSANOTINITIALISED	Windows Socket Error - Successful WSASStartup not yet performed. Either the application has not called WSASStartup or WSASStartup failed. The application may be accessing a socket that the current active task does not own (that is, trying to share a socket between tasks), or WSACleanup has been called too many times.
RC_ERR_WSAEDISCON	Windows Socket Error - Graceful shutdown in progress. Returned by WSARcv and WSARcvFrom to indicate that the remote party has initiated a graceful shutdown sequence.
RC_ERR_WSAENOMORE	Windows Socket Error - No more results. No more results can be returned by the WSALookupServiceNext function.
RC_ERR_WSAECANCELLED	Windows Socket Error - Call has been canceled. A call to the WSALookupServiceEnd function was made while this call was still processing. The call has been canceled.
RC_ERR_WSAEINVALIDPROCTABLE	Windows Socket Error - Procedure call table is invalid. The service provider procedure call table is invalid. A service provider returned a bogus procedure table to Ws2_32.dll. This is usually caused by one or more of the function pointers being NULL.
RC_ERR_WSAEINVALIDPROVIDER	Windows Socket Error - Service provider is invalid. The requested service provider is invalid. This error is returned by the WSCGetProviderInfo and WSCGetProviderInfo32 functions if the protocol entry specified could not be found. This error is also returned if the service provider returned a version number other than 2.0.
RC_ERR_WSAEPROVIDERFAILEDINIT	Windows Socket Error - Service provider failed to initialize. The requested service provider could not be loaded or initialized. This error is returned if either a service provider's DLL could not be loaded (LoadLibrary failed) or the provider's WSPStartup or NSPStartup function failed.
RC_ERR_WSASYSCALLFAILURE	Windows Socket Error - System call failure. A system call that should never fail has failed. This is a generic error code, returned under various conditions.
RC_ERR_WSASERVICE_NOT_FOUND	Windows Socket Error - Service not found. No such service is known. The service cannot be found in the specified name space.
RC_ERR_WSATYPE_NOT_FOUND	Windows Socket Error - Class type not found. The specified class was not found.
RC_ERR_WSA_E_NO_MORE	Windows Socket Error - No more results. No more results can be returned by the WSALookupServiceNext function.
RC_ERR_WSA_E_CANCELLED	Windows Socket Error - Call was canceled. A call to the WSALookupServiceEnd function was made while this call was still processing. The call has been canceled.

RC_ERR_WSAEREFUSED	Windows Socket Error - Database query was refused. A database query failed because it was actively refused.
RC_ERR_WSAHOST_NOT_FOUND	Windows Socket Error - Host not found. No such host is known. The name is not an official host name or alias, or it cannot be found in the database(s) being queried. This error may also be returned for protocol and service queries, and means that the specified name could not be found in the relevant database.
RC_ERR_WSATRY_AGAIN	Windows Socket Error - Nonauthoritative host not found. This is usually a temporary error during host name resolution and means that the local server did not receive a response from an authoritative server. A retry at some time later may be successful.
RC_ERR_WSANO_RECOVERY	Windows Socket Error - This is a nonrecoverable error. This indicates that some sort of nonrecoverable error occurred during a database lookup. This may be because the database files (for example, BSD-compatible HOSTS, SERVICES, or PROTOCOLS files) could not be found, or a DNS request was returned by the server with a severe error.
RC_ERR_WSANO_DATA	Windows Socket Error - Valid name, no data record of requested type. The requested name is valid and was found in the database, but it does not have the correct associated data being resolved for. The usual example for this is a host name-to-address translation attempt (using gethostbyname or WSAAsyncGetHostByName) which uses the DNS (Domain Name Server). An MX record is returned but no A record?indicating the host itself exists, but is not directly reachable.
RC_ERR_WSA_QOS_RECEIVERS	Windows Socket Error - QoS receivers. At least one QoS reserve has arrived.
RC_ERR_WSA_QOS_SENDERS	Windows Socket Error - QoS senders. At least one QoS send path has arrived.
RC_ERR_WSA_QOS_NO_SENDERS	Windows Socket Error - No QoS senders. There are no QoS senders.
RC_ERR_WSA_QOS_NO_RECEIVERS	Windows Socket Error - QoS no receivers. There are no QoS receivers.
RC_ERR_WSA_QOS_REQUEST_CONFIRMED	Windows Socket Error - QoS request confirmed. The QoS reserve request has been confirmed.
RC_ERR_WSA_QOS_ADMISSION_FAILURE	Windows Socket Error - QoS admission error. A QoS error occurred due to lack of resources.
RC_ERR_WSA_QOS_POLICY_FAILURE	Windows Socket Error - QoS policy failure. The QoS request was rejected because the policy system couldn't allocate the requested resource within the existing policy.
RC_ERR_WSA_QOS_BAD_STYLE	Windows Socket Error - QoS bad style. An unknown or conflicting QoS style was encountered.
RC_ERR_WSA_QOS_BAD_OBJECT	Windows Socket Error - QoS bad object. A problem was encountered with some part of the filterspec or the provider-specific buffer in general.
RC_ERR_WSA_QOS_TRAFFIC_CTRL_ERROR	Windows Socket Error - QoS traffic control error. An error with the underlying traffic control (TC) API as the generic QoS request was converted for local enforcement by the TC API. This could be due to an out of memory error or to an internal QoS provider error.
RC_ERR_WSA_QOS_GENERIC_ERROR	Windows Socket Error - QoS generic error. A general QoS error.
RC_ERR_WSA_QOS_ESERVICETYPE	Windows Socket Error - QoS service type error. An invalid or unrecognized service type was found in the QoS flowspec.
RC_ERR_WSA_QOS_EFLOWSPEC	Windows Socket Error - QoS flowspec error. An invalid or inconsistent flowspec was found in the QoS structure.
RC_ERR_WSA_QOS_EPROVSPECBUF	Windows Socket Error - Invalid QoS provider buffer. An invalid QoS provider-specific buffer.
RC_ERR_WSA_QOS_EFILTERSTYLE	Windows Socket Error - Invalid QoS filter style. An invalid QoS filter style was used.
RC_ERR_WSA_QOS_EFILTERTYPE	Windows Socket Error - Invalid QoS filter type. An invalid QoS filter type was used.
RC_ERR_WSA_QOS_EFILTERCOUNT	Windows Socket Error - Incorrect QoS filter count. An incorrect number of QoS FILTERSPECS were specified in the FLOWDESCRIPTOR.
RC_ERR_WSA_QOS_EOBJLENGTH	Windows Socket Error - Invalid QoS object length. An object with an invalid ObjectLength field was specified in the QoS provider-specific buffer.
RC_ERR_WSA_QOS_EFLOWCOUNT	Windows Socket Error - Incorrect QoS flow count. An incorrect number of flow descriptors was specified in the QoS structure.
RC_ERR_WSA_QOS_EUNKOWNPSOBJ	Windows Socket Error - Unrecognized QoS object. An unrecognized object was found in the QoS provider-specific buffer.
RC_ERR_WSA_QOS_EPOLICYOBJ	Windows Socket Error - Invalid QoS policy object. An invalid policy object was found in the QoS provider-specific buffer.
RC_ERR_WSA_QOS_EFLOWDESC	Windows Socket Error - Invalid QoS flow descriptor. An invalid QoS flow descriptor was found in the flow descriptor list.
RC_ERR_WSA_QOS_EPSFLOWSPEC	Windows Socket Error - Invalid QoS provider-specific flowspec. An invalid or inconsistent flowspec was found in the QoS provider-specific buffer.
RC_ERR_WSA_QOS_EPSFILTERSPEC	Windows Socket Error - Invalid QoS provider-specific filterspec. An invalid FILTERSPEC was found in the QoS provider-specific buffer.
RC_ERR_WSA_QOS_ESDMODEOBJ	Windows Socket Error - Invalid QoS shape discard mode object. An invalid shape discard mode object was found in the QoS provider-specific buffer.
RC_ERR_WSA_QOS_ESHAPERATEOBJ	Windows Socket Error - Invalid QoS shaping rate object. An invalid shaping rate object was found in the QoS provider-specific buffer.
RC_ERR_WSA_QOS_RESERVED_PETYPE	Windows Socket Error - Reserved policy QoS element type. A reserved policy element was found in the QoS provider-specific buffer.

Appendix B - Automatic Retry

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Auto retry for restoring a dropped connection to the transaction directory

The immediate older version of CenTran stops transaction processing when a connection to the input transaction folder is lost, if only for a short duration, due to network failure or other connection issues. CenTran displays a message in the progress report - 'Directory Monitor: Failed to update directory change notification! Stopped transaction processing'.

The current version of CenTran makes repeated attempts to reestablish connection with the input transaction folder and when it succeeds, resumes processing all the transactions stored in the input transaction folder. The attempts to reestablish connection with the input transaction folder are made every two seconds and each failed attempt is displayed in the progress report along with date and time (Example: 'Directory Monitor: Failed to update directory change notification! Another attempt will be made in 2 seconds. Current Date/Time: 2009/2/27 15:36:30').

CenTran's attempts to reestablish connection with the transaction folder can be stopped by simply clicking on the 'Stop' button in the toolbar (also used to stop processing transactions).

When CenTran is able to eventually reestablish a connection to the transaction folder, a message indicating success is displayed in the progress report (Example - 'Directory Monitor: Succeeded in updating directory change notification! Current Date/Time: 2009/2/27 15:36:52'). Then, CenTran resumes processing all the unread transactions in the transaction folder.

Auto retry for restoring a dropped connection to the database

The immediate older version of CenTran stops transaction processing when a remote connection to the database is lost, if only for a short duration, due to network failure. CenTran displays a message box saying that an error occurred while establishing a connection to the server.

The current version of CenTran makes repeated attempts to reestablish connection with the database and when it succeeds, resumes processing all the transactions. The attempts to reestablish connection with the database are made approximately every 15 seconds and each failed attempt is displayed in the progress report along with date and time (Example: 'Database Monitor: Failed to connect to database! Another attempt will be made in a few seconds. Current Date/Time: 2009/2/27 18:6:16').

CenTran's attempts to reestablish connection with the database can be stopped by simply clicking on the 'Stop' button in the toolbar (also used to stop processing transactions).

When the network resumes normal functioning, CenTran reestablishes a connection to the database and a message indicating success is displayed in the progress report (Example - 'Database Monitor: Succeeded in connecting to database! Current Date/Time: 2009/2/27 18:5:31'). Then, CenTran resumes processing all the unread transactions in the transaction folder.

Appendix C - Beta Expiration

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The beta versions of CenTran, the ATM Agents and the Keybox Agents will be assigned an initial expiration date of 180 days after the date of creation by Kaba Mas.

When CenTran or an agent is within 60 days of its expiration date entries will be posted to the database audit log documenting the situation. CenTran and the agents will continue to function.

When CenTran expires an entry will be posted to the database audit log identifying the event. An expired CenTran will not process transaction requests but will return an error condition to the transaction requestor. An entry will be posted to the database audit log documenting the transaction that failed due to an expired CenTran.

In a future Beta release the customer will be provided with the ability to reset the expiration date, and the date on which the warnings begin, for CenTran and the Agents with help from Kaba Mas Technical Support.

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CenTran 5.4.0.4378 XML Programming Reference Manual 28 Jun 2019

Appendix D - Legacy Binary File Transactions with Cencon Gen 2 Locks

CenTran Programming Reference Manual

Warning

Legacy binary file transactions, which were deprecated in CenTran Version 4.1.5, are no longer officially supported as of CenTran Version 5.1.0 and will be removed in a future release. Kaba Mas recommends that any use of the legacy binary file format be migrated to the XML file format as described in the CenTran Version 5 Programming Reference Manual.

CenTran 4.1.5 and higher will support dispatching, reassigning, and closing Cencon Gen 2 Locks using the CenTran legacy binary file format. This is accomplished by truncating strings that do not fit into the fields of the legacy binary file format. Lock serial numbers a million or higher will not fit into the fields of the legacy binary file format and will be replaced by 000000.

See the legacy CenTran Programming Guide for details on using the legacy binary file format with CenTran.

The legacy binary file transactions can be used to dispatch, reassign, and close Cencon Gen 2 locks by lock name as long as the lock name is 10 characters or less and does not contain any international characters.

The legacy binary file transactions can be used to dispatch, reassign, and close Cencon Gen 2 locks by lock serial number as long as the serial number is less than a million. If the lock serial number is a million or greater, then the Cencon Gen 2 lock can not be identified by serial number using the legacy binary file transactions. Cencon Gen 2 locks with a lock serial number a million or higher will have a serial number of 000000 returned in the legacy binary file transactions.

The four digit close seal used by Cencon Gen 2 locks is split between two fields of the legacy binary file transaction format. The first two digits is placed in the **Lock Close Seal Number** field. The second two digits is placed in the **Lock Close Seal Number Expansion** field. Both of these fields are three byte null terminated character fields. The four digit close seal must be formatted as four numeric characters, with two characters placed in the first field and two characters placed in the second field. (00 00 to 99 99)

The legacy binary file format fields vary depending on the operation. The legacy binary file format supports Cencon Gen 2 locks in the following manner for lock operations:

Field Name	Type	Size	Description
Sequence Number	short integer	2 Bytes	Sequence number if used in route
Call Type	short integer	2 Bytes	2 = 2nd line FLM call
Lock Audit Count	short integer	2 Bytes	Lock audit count
Lock Name	character	11 Bytes	Lock name up to 10 characters, null terminated.
Route Name	character	9 Bytes	Route name up to 8 characters, null terminated.
Cover Covert Entry Flag	character	1 Byte	Flag for Cencon lock cover covert entry.
Lock Serial Number	character	7 Bytes	Lock serial number up to 6 characters, null terminated. Serial numbers over a million for Cencon Gen 2 locks will be reported as 000000.
Dispatcher ID	character	21 Bytes	Dispatcher ID up to 20 characters, null terminated, used for authorization and auditing of the transaction.
FLM / Route User ID 1	character	21 Bytes	First FLM / Route user ID up to 20 characters, null terminated, used for lock dispatch and close.
FLM / Route User ID 2	character	21 Bytes	Second FLM / Route user ID up to 20 characters, null terminated, used for lock dispatch and close of dual mode locks.
Lock Combination 1	character	7 Bytes	Lock combination for first FLM / Route user. This will be 6 numeric characters. (000000 - 999999)
Lock Combination 2	character	7 Bytes	Lock combination for second FLM / Route user for dual mode locks. This will be 6 numeric characters. (000000 - 999999)
Lock Close Seal Number	character	3 Bytes	First two numeric characters for the lock close seal, null terminated. The Cencon Gen 1 locks have two digit close seals. The Cencon Gen 2 locks have four digit close seals, continued in the Lock Close Seal Number Expansion Field.
New FLM / Route User ID 1	character	21 Bytes	First FLM / Route user ID up to 20 characters, null terminated, used for lock reassign.
New FLM / Route User ID 2	character	21 Bytes	Second FLM / Route user ID up to 20 characters, null terminated, used for lock reassign of dual mode locks.
Nickname	character	11 Bytes	User nickname up to 10 characters, null terminated.
Absolute Sublock Authorization Data	N/A	16 Bytes	Sublocks are not longer supported by the Cencon system. These fields are ignored.
Lock Close Seal Number Expansion	character	3 Bytes	Second two numeric characters for the lock close seal, null terminated. The Cencon Gen 1 locks have two digit close seals. The Cencon Gen 2 locks have four digit close seals, continued in the Lock Close Seal Number Expansion Field.
Unused	N/A	15 Bytes	Unused space.

Cencon and CenTran support a minimum of 64 characters with internationalization for all string fields in the Cencon database. Any character fields in the legacy binary file transactions will be populated up to their smaller size limit, and any remaining character data will be truncated.

The legacy binary file transactions do not support internationalization. Any international characters can not be converted to single

byte characters for use in the legacy binary file transactions, and will potentially result in unreadable data.

Appendix E - Lock Audit Data

CenTran Programming Reference Manual

The following is an list of the fields used to store Cencon Gen 2 lock audits (with description) that CenTran could return. These values are valid for audits returned from CenTran with an audit event code of **ENV_LOCK_EVENT**. In the case of such audits, the audit data has been downloaded from a Cencon Gen 2 lock.

The Cencon Gen 2 lock audit codes are broken into three pieces of information: The lock transaction category, type, and event.

The fields Lock Transaction Category, Lock Transaction Type, and Lock Transaction Event make up the lock audit code describing the reason for the audit record.

There are additional audit fields that describe the characteristics of event that occurred at the lock.

Audit Record Field	Field Name	Description
EventType	Event Type	This is the identifier for the manner of audit event that occurred. For lock audits, this value will always be ENV_LOCK_EVENT . The specific manner of lock event is described by the fields downloaded from the lock.
EventResult	Event Result	This is the result error code associated with the audit event for an operation with Cencon / CenTran. For lock audits, this value is not applicable and will be 0.
EventDate	Event Date	This is the event date associated with the audit event. For lock audits, this value will be populated from the lock audit open time or close time, as appropriate for the manner of lock event.
PreviousDate	Previous Date	This is the previous date associated with the audit event. It is populated for audit events associated with setting the time on a legacy user key. For lock audits, this value is not applicable and will be blank.
LogonUser1ID	1st Logon User ID	This is the first logon user ID associated with the audit event. For lock audits, this value is not applicable and will be blank.
LogonUser2ID	2nd Logon User ID	This is the second logon user ID associated with the audit event. For lock audits, this value is not applicable and will be blank.
LogonUser3ID	3rd Logon User ID	This is the third logon user ID associated with the audit event. For lock audits, this value is not applicable and will be blank.
User1ID	1st User ID	This is the first user ID associated with the audit event. For lock audits, this value is automatically looked up by Cencon / CenTran based on the first user key serial number, and populated if the matching user record could be found. Not all lock audits have an associated user key serial number, so this field is populated based on the manner of lock audit event that occurred.
User2ID	2nd User ID	This is the second user ID associated with the audit event. For lock audits, this value is automatically looked up by Cencon / CenTran based on the second user key serial number for a dual user operation at the lock, and populated if the matching user record could be found. Not all lock audits have an associated user key serial number, so this field is populated based on the manner of lock audit event that occurred.
LockName	Lock Name	This is the lock name string of the lock associated with the audit event. For lock audits, this value is automatically looked up by Cencon / CenTran, and populated if the matching lock record could be found.
LockMode	Lock Mode	This is the lock mode of the lock associated with the audit event. For lock audits, this value should always be set. It is automatically set by Cencon / CenTran based on parsing the lock audit transaction category, type, and event.
RouteName	Route Name	This is the route name string for a Cencon / CenTran route operation associated with the audit event. For lock audits, this value is not applicable and will be blank.
CustomerID	Customer ID	This is the customer ID string of the lock associated with the audit event. For lock audits, this value is automatically looked up by Cencon / CenTran, and populated if the matching lock record could be found.
ATMSerialNumber	ATM Serial Number	This is the ATM serial number string of the lock associated with the audit event. For lock audits, this value is automatically looked up by Cencon / CenTran, and populated if the matching lock record could be found.
Region	Region	This is the region of the lock associated with the audit event. For lock audits, this value is automatically looked up by Cencon / CenTran, and populated if the matching lock record could be found.
SerialNumber	Lock Serial Number	This is the serial number of the lock associated with the audit event. For lock audits, this value should always be set. It is used by Cencon / CenTran to look up other associated data for the lock to be populated into the audit record.
BankBranchName	Bank Branch Name	This is the bank branch name of the lock associated with the audit event. This is applicable to bank mode locks only. For lock audits, this value is automatically looked up by Cencon / CenTran, and populated if the matching lock record could be found.
BankUserID	Bank Mode User ID	This is the numeric bank mode user ID of the user associated with the audit event. This is applicable to bank mode users only. For lock audits, this value is set if the lock event had an associated bank mode user.
BankBranchID	Bank Branch ID	This is the numeric bank branch ID of the lock associated with the audit event. This is applicable to bank mode locks only. For lock audits, this value is automatically looked up by Cencon / CenTran, and populated if the matching lock record could be found.
GroupName	Group Name	This is the group name of the lock associated with the audit event. For lock audits, this value is automatically looked up by Cencon / CenTran, and populated if the matching lock record could be found.

Description	Text Description	This is a text description of the manner of event that caused the audit record to be recorded. This field is translated based on the contents of the resources/{language culture code}/ODBC_AuditEventTranslation.xml string table file under the Cencon / CenTran install directory. The language culture code is based on the language and culture set with the host operating system. If the string table file is not found, this will default to predefined strings for en-US and the string table file will automatically be created.
auditPK	Audit Primary Key	This is a unique identifier value for the audit record in the database. It is automatically generated by Cencon / CenTran. It is needed for unique database record identification to support hot database backups and database replication. It is not related to the other data in the audit record, other than being a unique identifier for the record.
User1Key	1st User Key Serial Number	First user key serial number associated with the audit event. For lock audits, this will be the user key serial number downloaded from the lock for the event. Not all lock audits have an associated user key serial number, so this field is populated based on the manner of lock audit event that occurred.
User2Key	2nd User Key Serial Number	Second user key serial number associated with the audit event. For lock audits, this will be the user key serial number downloaded from the lock for the event for locks in dual user mode. Not all lock audits have an associated user key serial number, so this field is populated based on the manner of lock audit event that occurred.
LogonKey	Dispatcher Logon Key	Dispatcher Logon Key responsible for the audit event. This is not applicable to lock audits.
LockTransactionCategory	Lock Audit Transaction Category	This is the overall category of lock audit. The specific event is defined under the category by the lock audit transaction type and event. This value is downloaded from the lock and parsed by Cencon / CenTran to determine the manner of lock audit that occurred.
LockTransactionType	Lock Audit Transaction Type	This is the type of lock audit event. This defines what possible event codes are applicable to describe the lock audit. This value is downloaded from the lock and parsed by Cencon / CenTran to determine the manner of lock audit that occurred.
LockTransactionEvent	Lock Audit Transaction Event	This is the specific event that occurred at the lock. The meaning of the event code is dependent on the given lock transaction category and type of event. This value is downloaded from the lock and parsed by Cencon / CenTran to determine the manner of lock audit that occurred.
LockCloseSeal	Lock Close Seal	This is the close seal from the lock. This is only valid depending on the lock audit transaction category, type, and event. See the IsLockCloseSealValid flag field. This value is downloaded from the lock.
LockFullSealCount	Lock Full Seal Count	This is the lock close seal count for the lock audit transaction, for the given lock mode. This value is downloaded from the lock.
IsLockClockBatteryIsLow	Is Lock Clock Battery Low flag	This flag indicates that the lock clock battery was low at the time of the lock audit transaction. This value is downloaded from the lock.
IsLockDuressComboUsed	Is Lock Duress Combination Used flag	This flag indicates that a combination indicating duress was entered at the time of the lock audit transaction. This value is downloaded from the lock.
IsLockCloseSealValid	Is Lock Close Seal Valid flag	This flag indicates that the lock close seal given in the lock audit is valid. This flag is automatically set by Cencon / CenTran based on parsing the lock audit transaction category, type, and event.
LockAbbreviatedDeviceID	Lock Abbreviated Device ID	This value is the abbreviated device ID for the Cencon USB Keybox used to set up the security information for the lock. It is used to track how the lock was activated. This value is downloaded from the lock.
LockOpenTime	Lock Open Time	This value is the lock open time in Coordinated Universal Time (UTC). This is the time the lock was opened. It is valid depending on the lock audit transaction category, type, and event. This value is downloaded from the lock.
LockCloseTime	Lock Close Time	This value is the lock close time in Coordinated Universal Time (UTC). This is the time the lock was closed. It is valid depending on the lock audit transaction category, type, and event. This value is downloaded from the lock.
IsPossibleLockErrorOrIntrusion	Is Possible Lock Error Or Intrusion flag	This flag indicates that a possible lock error or intrusion occurred at the lock at the time of the lock audit transaction. This flag is automatically set by Cencon / CenTran based on parsing the lock audit transaction category, type, and event.
LockAuditIndex	Lock Audit Index	This is a count of the lock audit index from the lock. This value may not be valid depending on the level of firmware at the lock. This is used to help determine which lock audits are already in the Cencon database and which are new audits from the lock. This value is downloaded from the lock.
DatabaseLockAuditIndex	Database Lock Audit Index	This is a count of the lock audits as they are stored in the Cencon database. This is a calculated value that may or may not match the lock audit index. This value combined with the lock serial number should be unique in the Cencon database for a specific audit record.
ClientIPAddress	Client IP Address	This is the client IP address that requested the CenTran transaction associated with the audit event. This value is not applicable for a lock audit and will be blank.
LockIPAddress	Lock IP Address	This is the lock IP address that was accessed for the CenTran transaction associated with the audit event. For lock audits, this value will automatically be set by Cencon / CenTran if the lock was accessed across a network to download the lock audits. If the lock was being accessed by a USB or serial connection for the audit event, this value will be blank.

The following is a table describing each possible lock audit transaction category returned in the Lock Audit Transaction Category field, with the associated type and event values:

Lock Transaction Category	Category Value	Description	
		Transaction matching the Cencon Gen 1 Lock or Cencon Gen 2 Lock. Possible Types:	
		Type Value	Description
		Lock Transaction Type. Possible Events:	
		Event Value	Description
		0x000 (0)	Lock back cover removed. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			Consecutive-Failed attempts limit. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			Can-type/Key-type/Lock Mode mismatch
			Silent alarm found 'ON' from last 'Open'
			Dual Mode/Same Key
			Key-type mismatch
			Could not get a 2 of 3 match of security data.
			Factory initialization record did not CRC and is corrupt.
			Bank User not found in Lock List.
			Last Audit record not an 'Open' Audit
			Attempt to EEPROM/TM write without Lock Initialization.
			'Time-Window' mismatch
			User is Out of their 'Time-Window'
			Covert Bolt movement. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			Next Audit record place holder
		Gen 1: 0x010 (16)	FLM User Transaction Type. Cencon/CenTran will automatically set lock mode to F for these events. Possible Events:

or	Gen 2: 0x090 (144)	Event Value	Description
		0x001 (1)	'Open-Only' Audit record. Note - Cencon/CenTran will automatically set the open time as a valid value for this event.
		0x002 (2)	'Close-Only' Audit record. Note - Cencon/CenTran will automatically set the close time and close seal as a valid values for this event.
		0x003 (3)	'Open/Close' Audit record. Note - Cencon/CenTran will automatically set the open time, close time and close seal as a valid values for this event.
		0x005 (5)	Sublock 'Open-Only' Audit record. No longer supported. Note - Cencon/CenTran will automatically set the open time as a valid value for this event.
		0x006 (6)	Sublock 'Close-Only' Audit record. No longer supported. Note - Cencon/CenTran will automatically set the close time and close seal as a valid values for this event.
		0x007 (7)	Sublock 'Open/Close' Audit record. No longer supported. Note - Cencon/CenTran will automatically set the open time, close time and close seal as a valid values for this event.
		0x00B (11)	Retrieval of Close seal from a closed lock. Note - Cencon/CenTran will automatically set the close time and close seal as a valid values for this event.
		0x00C (12)	Covert Detected 'Close-Only' Audit record. Note - Cencon/CenTran will automatically set the close time and close seal as a valid values for this event. Note - Cencon/CenTran will also automatically set the audit flag for possible lock error or intrusion.
		0x00D (13)	Covert Detected 'Open/Close' Audit record. Note - Cencon/CenTran will automatically set the open time, close time and close seal as a valid values for this event. Note - Cencon/CenTran will also automatically set the audit flag for possible lock error or intrusion.
		0x00E (14)	'Covert Entry Cleared' Audit record. Note - Cencon/CenTran will also automatically set the audit flag for possible lock error or intrusion.
Gen 1: 0x020 (32)		Route User Transaction Type. Cencon/CenTran will automatically set lock mode to R for these events. Possible Events:	

		or	Event Value	Description
Cencon Gen 1 or 2	0x0A0 (160)	Gen 2:	0x001 (1)	'Open-Only' Audit record. Note - Cencon/CenTran will automatically set the open time as a valid value for this event.
			0x002 (2)	'Close-Only' Audit record. Note - Cencon/CenTran will automatically set the close time and close seal as a valid values for this event.
			0x003 (3)	'Open/Close' Audit record. Note - Cencon/CenTran will automatically set the open time, close time and close seal as a valid values for this event.
			0x005 (5)	Sublock 'Open-Only' Audit record. No longer supported. Note - Cencon/CenTran will automatically set the open time as a valid value for this event.
			0x006 (6)	Sublock 'Close-Only' Audit record. No longer supported. Note - Cencon/CenTran will automatically set the open time as a valid value for this event.
			0x007 (7)	Sublock 'Open/Close' Audit record. No longer supported. Note - Cencon/CenTran will automatically set the open time, close time and close seal as a valid values for this event.
			0x00B (11)	Retrieval of Close seal from a closed lock. Note - Cencon/CenTran will automatically set the close time and close seal as a valid values for this event.
			0x00C (12)	Covert Detected 'Close-Only' Audit record. Note - Cencon/CenTran will automatically set the close time and close seal as a valid values for this event. Note - Cencon/CenTran will also automatically set the audit flag for possible lock error or intrusion.
			0x00D (13)	Covert Detected 'Open/Close' Audit record. Note - Cencon/CenTran will automatically set the open time, close time and close seal as a valid values for this event. Note - Cencon/CenTran will also automatically set the audit flag for possible lock error or intrusion.
			0x00E (14)	'Covert Entry Cleared' Audit record. Note - Cencon/CenTran will also automatically set the audit flag for possible lock error or intrusion.
			Bank User Transaction Type. Cencon/CenTran will automatically set lock mode to B for these events. Possible Events:	
		Gen 1:		

		0x030 (48)	Event Value	Description
		or		
		Gen 2:		
		0x0B0 (176)		
		0x001 (1)		'Open-Only' Audit record. Note - Cencon/CenTran will automatically set the open time as a valid value for this event.
		0x002 (2)		'Close-Only' Audit record. Note - Cencon/CenTran will automatically set the close time as a valid value for this event.
		0x003 (3)		'Open/Close' Audit record. Note - Cencon/CenTran will automatically set the open and close times as a valid values for this event.
		0x004 (4)		'Change Combo' Audit record. Note - Cencon/CenTran will automatically set the open time as a valid value for this event.
		0x005 (5)		Subblock 'Open-Only' Audit record. No longer supported. Note - Cencon/CenTran will automatically set the open time as a valid value for this event.
		0x006 (6)		Subblock 'Close-Only' Audit record. No longer supported. Note - Cencon/CenTran will automatically set the close time as a valid value for this event.
		0x007 (7)		Subblock 'Open/Close' Audit record. No longer supported. Note - Cencon/CenTran will automatically set the open and close times as a valid values for this event.
		0x00B (11)		Verify Close Audit record. Note - Cencon/CenTran will automatically set the close time as a valid value for this event.
		0x00C (12)		Covert Detected 'Close-Only' Audit record. Note - Cencon/CenTran will automatically set the close time as a valid value for this event. Note - Cencon/CenTran will also automatically set the audit flag for possible lock error or intrusion.
		0x00D (13)		Covert Detected 'Open/Close' Audit record. Note - Cencon/CenTran will automatically set the open and close times as a valid values for this event. Note - Cencon/CenTran will also automatically set the audit flag for possible lock error or intrusion.
		0x00E (14)		'Covert Entry Cleared' Audit record. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			Supervisor Transaction Type. Possible Events:	
			Event Value	Description
		0x004 (4)		'Change Combo' Audit record.
		0x005 (5)		'Audit Dump' Audit record.
		0x006 (6)		'Initialize an FLM Lock mode' Audit record. Note - Cencon/CenTran will automatically set the lock mode as F for this event.
		0x007 (7)		'Initialize a Route Lock mode' Audit record. Note - Cencon/CenTran will automatically set the lock mode as R for this event.
		0x008 (8)		'Initialize a Bank Lock mode' Audit record. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
		0x009 (9)		'Shelve an FLM Lock mode' Audit record. Note - Cencon/CenTran will automatically set the lock mode as F for this event.
		0x00A (10)		'Shelve a Route Lock mode' Audit record. Note - Cencon/CenTran will automatically set the lock mode as R for this event.
		0x00B (11)		'Shelve a Bank Lock mode' Audit record. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
		0x00C (12)		'Add Bank Users' Audit record. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
		0x00D (13)		'Delete Bank Users' Audit record. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
			Factory Transaction Type. Possible Events:	
		0x050 (80)	Event Value	Description
			0x00F (15)	'SuperShelve a Lock' Audit record.
			EEPROM Error Transaction Type. Possible Events:	

		0x060 (96)	Event Value	Description
			0x000 (0)	Error Reading/Writing: CLD Seed Record (Cashbar).
			0x001 (1)	Error Reading: Housekeeping record.
			0x002 (2)	Error Writing: Housekeeping record.
			0x003 (3)	Error Reading: Customer Initialization record.
			0x004 (4)	Error Reading: Customer Initialization record.
			0x005 (5)	Error Reading: Error List record.
			0x006 (6)	Error Writing: Error List record.
			0x007 (7)	Error Reading: Seed/Master/Close/Seal record.
			0x008 (8)	Error Writing: Seed/Master/Close/Seal record.
			0x009 (9)	Error Reading: Bank User record.
			0x00A (10)	Error Writing: Bank User record.
			0x00B (11)	Error Reading: Audit record
			0x00C (12)	Error Writing: Audit record
			0x00D (13)	Error Reading/Writing: Delayed-Open data record.
			0x00E (14)	Error Reading/Writing: Lock-Out/Alarm Distribution Unit (ADU) record.
			0x00F (15)	Error Reading/Writing: Factory Initialization record (Cashbar).
		0x070 (112)	'Touch-Memory' iButton Key Error Transaction Type. Possible Events:	
			Event Value	Description
			0x000 (0)	Error Reading/Writing: AET record read or write
			0x001 (1)	Error Reading: Housekeeping record
			0x002 (2)	Error Writing: Housekeeping record
			0x003 (3)	Error Reading: Audit record
			0x004 (4)	Error Writing: Audit record
			0x005 (5)	Error Reading: Initialization/Shelve record 1
			0x006 (6)	Error Writing: Initialization/Shelve record 1
			0x007 (7)	Error Reading: Initialization record 2
			0x008 (8)	Error Reading: Alarm Distribution Unit (ADU) DS2407 Can-Type + Serial Number.
			0x009 (9)	Error Reading: Add/Delete User record.
			0x00A (10)	Error Writing: Add/Delete User record.
			0x00C (12)	Error Reading/Writing: CLD access record. (Cashbar)
			0x00D (13)	Error Reading: ROM's Can-Type & Serial Number.
			0x00E (14)	Error Reading/Writing: 'Time-Window' record.
			0x00F (15)	Error Reading: TIC Timer value (after 7 tries).
		0x080 (128)	Alarm Distribution Unit (ADU) Error Transaction Type. Possible Events:	
			Event Value	Description
			0x001 (1)	Error Reading: DS2407's Family-Type & Serial Number
			0x002 (2)	Error Reading: Lockout/Alarm Distribution Unit (ADU) EEPROM record
			0x003 (3)	Error Writing: Lockout/Alarm Distribution Unit (ADU) EEPROM record
Lock	0x90 (144)	Cencon Gen 2 lock transaction. Possible Types:		
		Type Value	Description	
		0x000 (0)	Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use. Possible Events:	
			Event Value	Description
			0x000 (0)	Lock time set key used.
			0x001 (1)	Lock factory combination open.
			0x002 (2)	Lock factory combination changed.
			0x003 (3)	Lock clock unavailable for time windows. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			0x004 (4)	Error: Lock clock has been reset. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			0x005 (5)	Error: Touch Memory (iButton) key family code lookup failed.
			0x006 (6)	Error: Legacy generation 1 key not allowed for operation.
			0x007 (7)	Error: Lock clock has failed. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			0x008 (8)	Bolt extended in Factory/Shelved mode.
		Cencon Gen 2 FLM user transaction. Cencon/CenTran will automatically set lock mode to F for these events. Possible Types:		

FLM User	0x91 (145)	Type Value	Description	
			Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use.	
		0x000 (0)	Event Value	Description
			0x000 (0)	User resynchronize lock combination state.
			0x001 (1)	User daylight savings table changed.
Route User	0x92 (146)	Cencon Gen 2 Route user transaction. Cencon/CenTran will automatically set lock mode to R for these events. Possible Types:		
		Type Value	Description	
			Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use.	
		0x000 (0)	Event Value	Description
			0x000 (0)	User resynchronize lock combination state.
			0x001 (1)	User daylight savings table changed.
Bank User	0x93 (147)	Cencon Gen 2 Bank user transaction. Cencon/CenTran will automatically set lock mode to B for these events. Possible Types:		
		Type Value	Description	
			Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use.	
		0x000 (0)	Event Value	Description
			0x000 (0)	User resynchronize lock combination state.
			0x001 (1)	User daylight savings table changed.
Audit	0x94 (148)	Cencon Gen 2 Supervisor Audit Key transaction. Possible Types:		
		Type Value	Description	
			Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use.	
		0x000 (0)	Event Value	Description
			0x000 (0)	Supervisor audit key operation: Bank mode user table dump. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
			0x001 (1)	Supervisor audit key operation: Update FLM lock mode activation from Gen 1 compatibility mode to full Gen 2 mode. Note - Cencon/CenTran will automatically set the lock mode as F for this event.
			0x002 (2)	Supervisor audit key operation: Update Route lock mode activation from Gen 1 compatibility mode to full Gen 2 mode. Note - Cencon/CenTran will automatically set the lock mode as R for this event.
			0x003 (3)	Supervisor audit key operation: Update Bank lock mode activation from Gen 1 compatibility mode to full Gen 2 mode. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
Factory Transaction	0x95 (149)	Cencon Gen 2 Factory Transaction.		
		Reserved For Future Use.		
EEPROM Error	0x96 (150)	Cencon Gen 2 EEPROM Error Transaction. Possible Types:		

	(150)	Type Value	Description	
		0x000 (0)	Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use. Possible Events:	
			Event Value	Description
			0x000 (0)	EEPROM Memory Error: Audit abuse record read error. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			0x001 (1)	EEPROM Memory Error: Audit abuse record write error. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			0x002 (2)	EEPROM Memory Error: Time zone and daylight savings time data read error. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
0x003 (3)	EEPROM Memory Error: Time zone and daylight savings time data write error. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.			

Touch Memory (iButton Key) Error	0x97 (151)	Cencon Gen 2 Touch Memory (iButton Key) Error Transaction. Possible Types:		
		Type Value	Description	
		0x000 (0)	Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use. Possible Events:	
			Event Value	Description
			0x000 (0)	Touch Memory (iButton) Error: Lock activation time zone daylight savings time record read error.
			0x001 (1)	Touch Memory (iButton) Error: User record write error.
0x002 (2)	Touch Memory (iButton) Error: Combination resynchronization data write error.			

Alarm Distribution Unit (ADU) Error	0x98 (152)	Cencon Gen 1 ADU Error Transaction.	
		The alarm distribution unit is not supported by Cencon Gen 2 lock. Reserved For Future Use. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.	

Interface Box Error	0x99 (153)	Cencon Gen 2 Lock Interface Box Error Transaction.	
		Reserved For Future Use.	

Cencon (Host PC)	0x9A (154)	Cencon Gen 2 Lock Host PC Error Transaction. Possible Types:		
		Type Value	Description	
		0x000 (0)	Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use. Possible Events:	
			Event Value	Description
		0x001 (1)	Event is a logon access to Cencon / CenTran software.	

Cencon Gen 2 Firmware Error	0x9B (155)	Cencon Gen 2 Lock Firmware Error Transaction. Possible Types:		
		Type Value	Description	
		0x000 (0)	Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use. Possible Events:	
			Event Value	Description
		0x000 (0)	Firmware Error: Invalid function parameter.	

		Cencon Gen 2 Lock External Sensor Error Transaction. Possible Types:	

Cencon Gen 2 Sensor Event	0x9C (156)	Type Value	Description	
		0x000 (0)	Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use. Possible Events:	
			Event Value	Description
			0x000 (0)	Sensor Event: Door open while getting close seal. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			0x001 (1)	Sensor Event: Remote disable asserted. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			0x002 (2)	Sensor Event: Door sensor disconnected. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			0x003 (3)	Sensor Event: Bolt works extended sensor disconnected. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			0x004 (4)	Sensor Event: Unexpected door open. The door sensor indicates open while the bolt is still extended. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			0x005 (5)	Sensor Event: Unexpected bolt works retraction. The bolt works sensor indicates open while the bolt is still extended. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
			0x006 (6)	Sensor Event: Unexpected bolt retraction. The bolt was retracted possibly by not having been extended completely from the previous open. Note - Cencon/CenTran will automatically set the audit flag for possible lock error or intrusion.
Communications Default Endpoint	0x9D (157)	Cencon Gen 2 Lock Serial Communications Default Endpoint Operation. Possible Types:		
		Type Value	Description	
		0x000 (0)	Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use. Possible Events:	
			Event Value	Description
			0x000 (0)	Clock Write.
			0x007 (7)	Activate FLM Mode. Note - Cencon/CenTran will automatically set the lock mode as F for this event.
			0x008 (8)	Activate Route Mode. Note - Cencon/CenTran will automatically set the lock mode as R for this event.
			0x009 (9)	Activate Bank Mode. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
		Communications Factory Endpoint	0x9E (158)	Cencon Gen 2 Lock Serial Communications Factory Endpoint Operation. Possible Types:
Type Value	Description			
0x000 (0)	Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use. Possible Events:			
	Event Value			Description
	0x000 (0)			Clock Write.
	0x00B (11)			Kaba Mas Reset FLM Mode. Note - Cencon/CenTran will automatically set the lock mode as F for this event.
	0x00C (12)			Kaba Mas Reset Route Mode. Note - Cencon/CenTran will automatically set the lock mode as R for this event.
0x00D (13)	Kaba Mas Reset Bank Mode. Note - Cencon/CenTran will automatically set the lock mode as B for this event.			

Communications FLM Endpoint	0x9F (159)	Cencon Gen 2 Lock Serial Communications First Line Maintenance (FLM) Mode Endpoint Operation. Possible Types:	
		Type Value	Description
		Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use. Possible Events:	
		Event Value	Description
		0x000 (0)	Clock Write. Note - Cencon/CenTran will automatically set the lock mode as F for this event.
		0x003 (3)	FLM Mode: Time zone daylight savings time transition table write. Note - Cencon/CenTran will automatically set the lock mode as F for this event.
		0x005 (5)	FLM Mode: Access configuration (Single/Dual) write. Note - Cencon/CenTran will automatically set the lock mode as F for this event.
		0x006 (6)	FLM Mode: Confirm FLM mode dispatched call closed. Note - Cencon/CenTran will automatically set the lock mode as F for this event.
Communications Route Endpoint	0xA0 (160)	Cencon Gen 2 Lock Serial Communications Route Mode Endpoint Operation. Possible Types:	
		Type Value	Description
		Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use. Possible Events:	
		Event Value	Description
		0x000 (0)	Clock Write. Note - Cencon/CenTran will automatically set the lock mode as R for this event.
		0x003 (3)	Route Mode: Time zone daylight savings time transition table write. Note - Cencon/CenTran will automatically set the lock mode as R for this event.
		0x005 (5)	Route Mode: Access configuration (Single/Dual) write. Note - Cencon/CenTran will automatically set the lock mode as R for this event.
		0x006 (6)	Route Mode: Confirm Route mode dispatched call closed. Note - Cencon/CenTran will automatically set the lock mode as R for this event.
Communications Bank Endpoint	0xA1 (161)	Cencon Gen 2 Lock Serial Communications Bank Mode Endpoint Operation. Possible Types:	
		Type Value	Description
		Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use. Possible Events:	
		Event Value	Description
		0x000 (0)	Clock Write. Note - Cencon/CenTran will automatically set the lock mode as R for this event.
		0x003 (3)	Bank Mode: Time zone daylight savings time transition table write. Note - Cencon/CenTran will automatically set the lock mode as R for this event.
		0x005 (5)	Bank Mode: Access configuration (Single/Dual) write. Note - Cencon/CenTran will automatically set the lock mode as R for this event.
		0x006 (6)	Bank Mode: Confirm Bank mode dispatched call closed. Note - Cencon/CenTran will automatically set the lock mode as R for this event.

Bank Endpoint	(101)	Type Value	Description	
		0x000 (0)	Fixed Value of 0 For Transaction Type. Other Values Reserved For Future Use. Possible Events:	
			Event Value	Description
			0x000 (0)	Clock Write. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
			0x001 (1)	Bank Mode: Users Added. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
			0x002 (2)	Bank Mode: Users Deleted. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
			0x003 (3)	Bank Mode: Time zone daylight savings time transition table write. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
			0x004 (4)	Bank Mode: Time delay / open window write. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
			0x005 (5)	Bank Mode: Access configuration (Single/Dual) write. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
			0x006 (6)	Bank Mode: Confirm Bank mode lock open as closed. Note - Cencon/CenTran will automatically set the lock mode as B for this event.
			0x00A (10)	Shelve Bank Mode. Note - Cencon/CenTran will automatically set the lock mode as B for this event.

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Appendix F - dormakaba Safe Locks Privacy Statement

CenTran Programming Reference Manual

1. Definitions

Controller

The legal entity that determines the purposes and means of the processing of Personal Data is considered to be the Controller (e.g., when processing an employee's Personal Data, the employer is considered to be the Controller). The key responsibility of a Controller is to be accountable, i.e. to take actions in line with GDPR, and to be able to explain the compliance with GDPR to data subjects and the Supervisory Authority.

dormakaba is not a Controller of Personal Data in relation to administration and operation of the dormakaba Safe Lock products.

Processor

dormakaba also does not process Personal Data, although dormakaba software does allow an organization to capture and process Personal Data.

Personal Data

According to the EU General Data Protection Regulation (GDPR), Personal Data is all information that relates, or at least may be related, to a natural person and thus allows conclusions to be drawn about their personality.

A natural person is considered to be identifiable if they can be identified directly or indirectly, in particular by association with an identifier such as a name, with an identification number, with location data, with an online identifier or with one or more special features.

Pseudonymized Data

Pseudonymisation enhances privacy by replacing most identifying fields within a data record by one or more artificial identifiers, or pseudonyms. There can be a single pseudonym for a collection of replaced fields or a pseudonym per replaced field.

Specifically, the GDPR defines pseudonymization as "the processing of Personal Data in such a way that the data can no longer be attributed to a specific data subject without the use of additional information." To pseudonymise a data set, the "additional information" must be "kept separately and subject to technical and organisational measures to ensure non-attribution to an identified or identifiable person."

2. Personal Data processed by dormakaba Safe Lock products

The dormakaba Safe Lock products process only minimal Personal Data to operate effectively and to provide the best user experience.

Personal Data:

The following Personal Data is stored as a part of a Software User record or Audit records:

dormakaba product	Personal Data processed	Where / how Personal Data are used
Axessor	User Name*	AS284 Management Software
	User Name*	AS274 Management Software & Audit
	PC Name / login ID	Lock Audit (logging remote access)
Paxos	User Name*	Lock Audit (track changes UserID to Name)
Cencon/CenTran	First Name* / Middle Name* / Last Name*	User Identification
		Software Audit records - User deletion entry

*Optional entries, that can be entered into the systems.

Pseudonymized Data:

Pseudonymized data may also be stored as a part of a Software User record or Audit record:

dormakaba product	Personal Data processed	Where / how Personal Data are used
Axxesor	User ID / Password	User Identification
Paxos	Transaction data of individual persons	History/access logs
Cencon/CenTran	Login and logout dates	Logging

The dormakaba Safe Lock products are designed that all personal and security relevant data is managed by the owner(s) of the software and the locks. Therefore, dormakaba does not hold any Personal Data.

3. How to Access & Control Your Personal Data

To comply with GDPR your lock system administrator representing the Controller can view, edit or delete Personal Data stored in the software databases (via the respective associated dormakaba software).

It lies in the Controller's responsibility to process requests for manipulation of Personal Data.

Audit records may contain Personal Data that cannot be removed for security reasons. For further information, contact the lock system administrator.

4. General Notice to End Users

dormakaba Safe Lock products holding Personal Data are intended for use by organizations and are administered to you by your organization. Your use of dormakaba Safe Lock products may be subject to your organization's policies, if any. If your organization is administering your use of dormakaba Safe Lock products, please direct your privacy inquiries to your lock system administrator. When you use support features, other users in your network may see some of your activity. dormakaba is not responsible for the privacy or security practices of our customers, which may differ from those set forth in this Privacy Statement.

5. Contacting dormakaba

If you contact us by email or a web page contact form, the information you provide will be stored for the purpose of processing your request and for possible follow-up questions. We will not transfer your Personal Data to any third party without your consent. We do not and never will sell your Personal Data to third parties.

The information you provided to us via email or consent form will be processed on the basis of your consent. You can withdraw your consent at any time. We will not continue any data processing based on such a withdrawal. However, the withdrawal of consent does not affect the lawfulness of processing based on consent before its withdrawal. In case your inquiry relates to concluding a contract or our support of any dormakaba products, processing of your Personal Data is also

based on the corresponding regulations of the GDPR.

Your Personal Data submitted by contact form or email will be retained by us until you ask us to delete your data, withdraw your consent or the purpose of the retention is achieved, e.g. your service request has been resolved, unless any applicable legal provisions, in particular according to German commercial or tax law, stipulate a longer retention period.

If you have any questions about the use of your personal information, please email data.protection@dormakaba.com.

6. Your rights

You have the following rights to the Controller of your Personal Data:

- Right of access
- Right to rectification or completion or erasure
- Right to restriction of processing
- Right to data portability
- Right to lodge a complaint with a regulatory authority
- Right to withdraw your consent at any time. The withdrawal of consent does not affect the lawfulness of processing based on consent before its withdrawal.

Please refer to the EU GDPR Information Portal or the official web site of the European (EU) Commission for the most recent legislation and documentation.