

Axessor Apexx

Software Installation Guide



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Apexx Series Software Installation Guide

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Apexx Series Software

Installation Guide

To install Apexx Series Software, follow the steps as written and in the order presented in this guide.

Steps 1-10 cover the installation of Apexx Series Software and all of its components on a single computer.

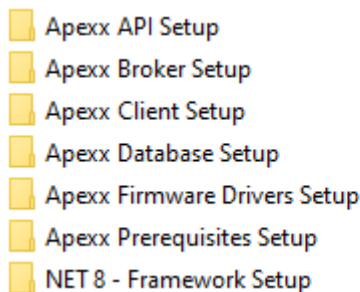
To install Apexx Series Software in a multi-computer setup wherein each software component (Database, API, Broker, and Client) is hosted on a different machine, please refer to the "Advanced Installation – Stand-alone Multi-Computer Configuration" section of this document

Note: Before Installing Apexx Series Software, it is recommended that you perform all the latest Windows OS updates on your computer.

Step 1. Downloading and Opening the Installation Files

After purchasing Apexx Series Software, you will receive an email that contains all the installation files you need. These installation folders/files will be bundled in an ISO file.

1. Locate the email and download the **Apexx ISO** file.
2. Navigate to the folder on your computer where you downloaded the file.
3. Right-click the Apexx ISO file and select **"Mount"**. This will open a directory containing all the installation folders/files:



Step 2. Install Apexx Prerequisites Setup

1. In the installation file directory, open the **"Apexx Prerequisites Setup"** folder.
2. Right-click the **"APEXX Prerequisites.exe"** file and choose **"Run as Administrator"**.
3. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.

Step 3. Install .NET 8

1. In the installation file directory, open the **"NET 8 – Framework Setup"** folder. This folder contains several .exe files:
 - Dotnet-hosting-xxx
 - Windowsdesktop-runtime-xxx
2. Right-click the first of these .exe files (following the order listed in step 1) and choose **"Run as Administrator"**.
3. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.
4. Repeat step 2 and 3 for each of the remaining .exe files in the **"Net 8 – Framework Setup"** folder.

Step 4. Install Apexx API Setup

1. In the installation file directory, open the **"Apexx API Setup"** folder.
2. Right-click the **"setup.exe"** file and choose **"Run as Administrator"**.
3. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.

Step 5. Install Apexx Broker Setup

1. In the installation file directory, open the **"Apexx Broker Setup"** folder.
2. Right-click the **"setup.exe"** file and choose **"Run as Administrator"**.
3. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.

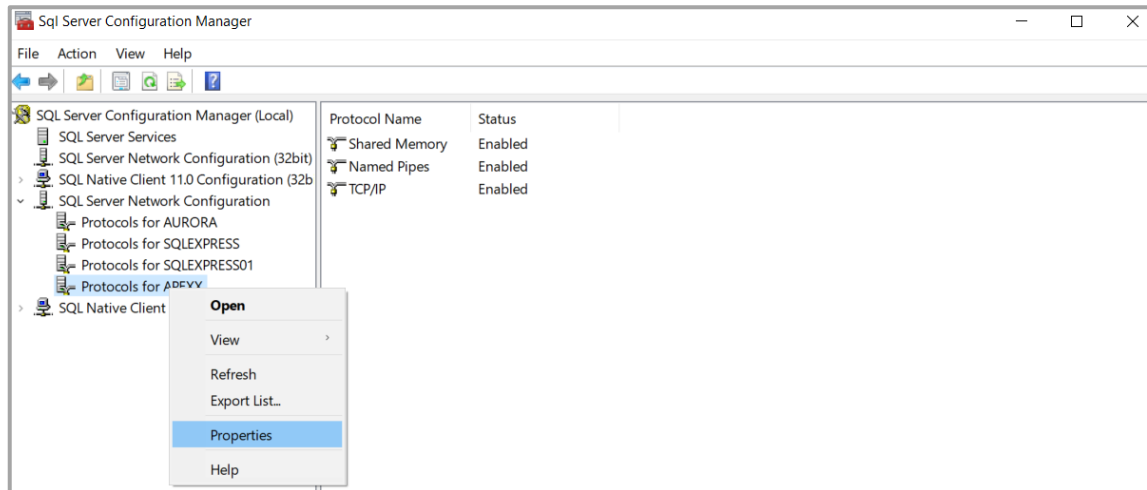
Step 6. Install Apexx Database Setup

1. In the installation file directory, open the **"Apexx Database Setup"** folder.
2. Right-click the **"setup.exe"** file and choose **"Run as Administrator"**.
3. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.

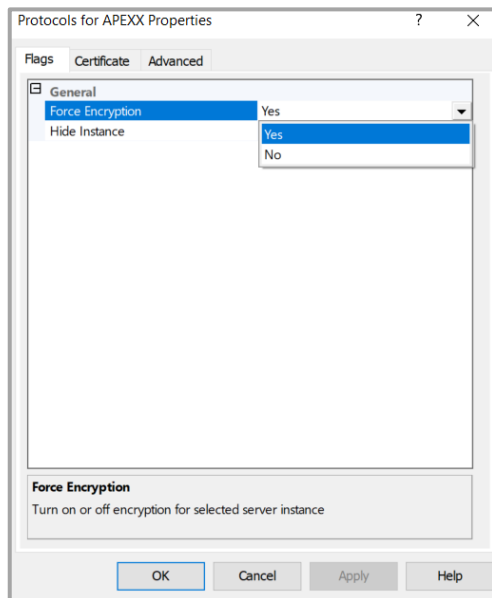
Step 7. Change Database Connection using SQL Server Configuration Manager

1. Open SQL Server configuration Manager. **Note:** If it does not appear in the Windows Start menu, it can be found in the **C:\Windows\SysWOW64** folder (**"SQLServerManager15.msc"**).
2. Using the SQL Server Configuration Manager, do the following:
 - a. Click the arrow next to **"SQL Server Network Configuration"** to open the tree.

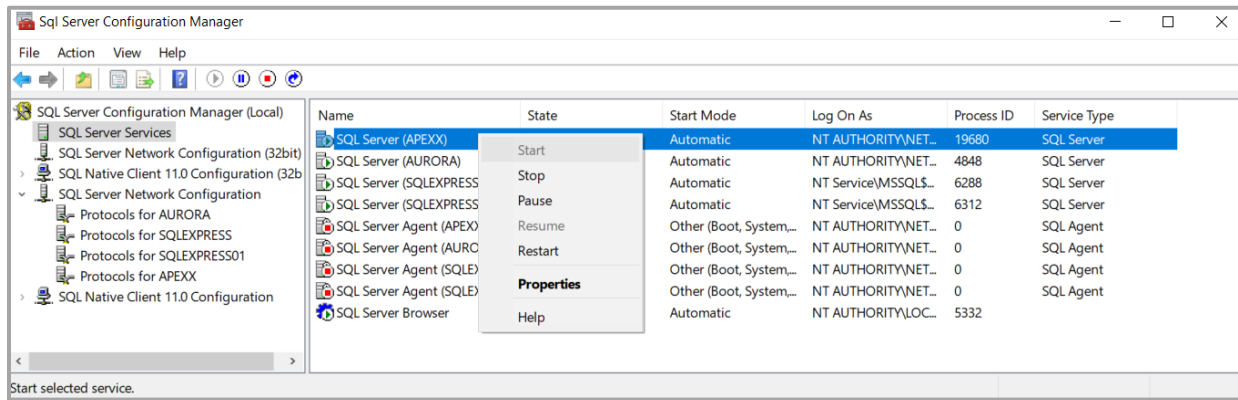
- b. Select **"Protocols for APEXX"**.



- c. Right-click **"Protocols for APEXX"**, then select **"Properties"**.



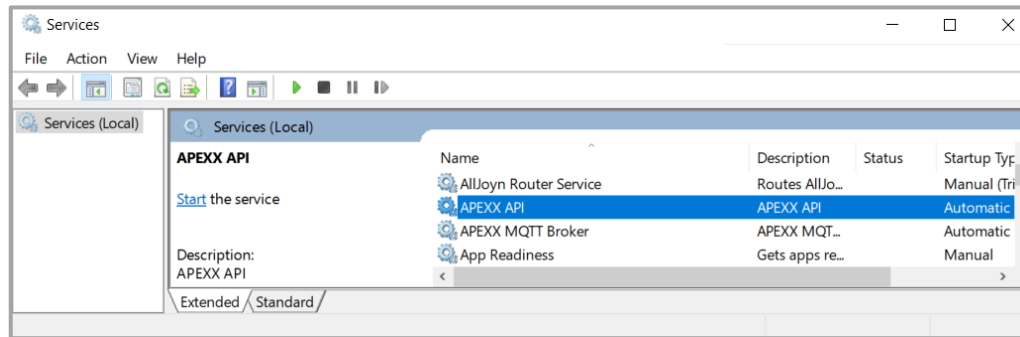
- d. On the "Flags" tab, set "Forced Encryption" to **"Yes"**.
- e. Click the **"Apply"** button.
- f. Click **"Ok"** on the Warning window to proceed with the change.
- g. Click **"SQL Server Services"**.



- h. In the list of services, right-click the **"SQL Server (APEXX)"** service, then click **"Stop"**.
- i. After the service has stopped, right-click it again and click **"Start"**.

Note: Before proceeding further, ensure that the server network configuration and infrastructure setup has been completed.

Step 8. Starting Apexx API and Broker



1. Open the Windows "Services" app.
2. To start the API > In the list of services, right-click **"APEXX API"** and click **"Start"**.
3. To start the Broker > In the list of services, right-click **"APEXX MQTT Broker"** and click **"Start"**.

Step 9. Install Apexx Client

Note: If you wish to install the Apexx Series Software Client on another separate computer, ensure that you do the following:

- First install the Apexx Prerequisites and the .NET Framework before installing the Apexx Client software on any remote computer(s).
- For CenconX functionality, you must have a working internet connection while installing the Apexx Client.

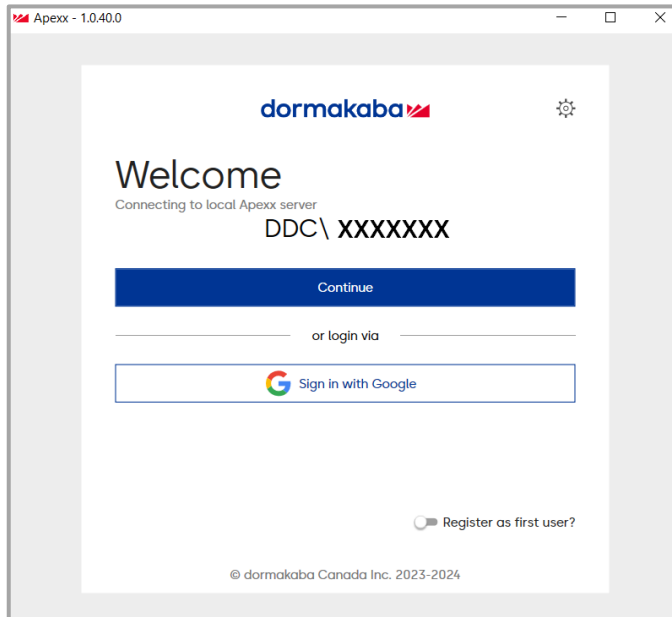
1. In the installation file directory, open the **"Apexx Client Setup"** folder.

2. Right-click the **"setup.exe"** file and choose **"Run as Administrator"**.
3. Proceed through the Installation steps as presented in the Installer file.

Step 10. Open, Run, and Register Apexx Series Software



1. On your computer's desktop, double-click the **"Launch APEXX Client.exe"** icon to open Apexx Series Software.



2. Click **"Continue"**.
Note: Do not click **"Sign in with Google"** at this point. To configure this at a later point in time, refer to the Apexx Series Software Help.
3. Complete the registration process (consult Apexx Series Software Help for more information).

Step 11. Installing the Apexx Firmware Drivers

Note: This installation file package only needs to be installed on the computer(s) that you intend to use for updating Apexx device firmware.

1. In the installation file directory, open the **"Apexx Firmware Drivers Setup"** folder.
2. Right-click the **"setup.exe"** file and choose **"Run as Administrator"**.
3. Proceed through the Installation steps as presented in the Installer file.

Apexx Series Software

Advanced Installation – Stand-alone Multi-Computer Configuration

This section outlines the steps involved in installing Apexx Series Software in a multi-computer setup wherein each software component (Database, API, Broker, and Client) is hosted on a different machine.

Follow the steps as written and in the order presented in this section.

Note: Before Installing Apexx Series Software, it is recommended that you perform all the latest Windows OS updates on your computer

Prerequisites/Base Requirements

- Download the Installation files as outlined in **“Step 1. Downloading and Opening the Installation Files”** and ensure that they are present or accessible on each computer/machine.
- To use Windows Authorization in the Database and Client, all machines must be on a Windows Server 2008 R2+ Domain.
- If not connected to a domain, you must setup and configure a Google account to authorize software user access to the API and Client. Refer to “Third-Party Sign-In Configuration” in the Apexx Series Software Help menu for details/instructions.

Database Machine - Installation/Setup

1. Install the Apexx Prerequisites by doing the following:
 - a. In the installation file directory, open the **“Apexx Prerequisites Setup”** folder.
 - b. Right-click the **“APEXX Prerequisites.exe”** file and choose **“Run as Administrator”**.
 - c. Proceed through the Installation steps as presented in the Installer file, clicking **“Next”** through each step until the installation has completed.
2. Install the Apexx Database by doing the following:
 - a. In the installation file directory, open the **“Apexx Database Setup”** folder.
 - b. Right-click the **“setup.exe”** file and choose **“Run as Administrator”**.
 - c. Proceed through the Installation steps as presented in the Installer file, clicking **“Next”** through each step until the installation has completed.
 - d. When you encounter the error when adding service users to the database, click **“OK”**.
3. Add Firewall exceptions for your Database by doing the following:
 - a. Launch Windows Defender Firewall **“WF.msc”** (located in C:\Windows\System32 folder)
 - b. In the left panel, click **“Inbound Rules”**.
 - c. In the right panel under **“Actions”**, click **“New Rule...”**.
 - d. For **“Rule Type”**, select **“Port”**, then click the **“Next”** button.

- e. For **"Protocol and Ports"**, select **"UDP"**. Select **"Specific local ports"** and type **"1434"** into the text box, then click the **"Next"** button.
 - f. For **"Action"**, select **"Allow the connection"**, then click the **"Next"** button.
 - g. For **"Profile"**, make sure **"Domain"**, **"Private"**, and **"Public"** are all selected, then click the **"Next"** button.
 - h. For **"Name"**, enter an appropriate name (i.e. "SQL Browser (UDP-In)") and description in the fields provided then click the **"Finish"** button.
 - i. In the left panel of the main Windows Defender Firewall screen, click **"Inbound Rules"**.
 - j. For **"Rule Type"**, select **"Program"**, then click the **"Next"** button.
 - k. For **"Program"**, select **"This program path"**. Type **"%ProgramFiles%\Microsoft SQL Server\MSSQL15.APEXX\MSSQL\Binn\sqlservr.exe"** into the field provided (or click "Browse" to manually navigate to the file's location) then click the **"Next"** button.
 - l. For **"Action"**, select **"Allow the connection"**, then click the **"Next"** button.
 - m. For **"Profile"**, make sure **"Domain"**, **"Private"**, and **"Public"** are all selected, then click the **"Next"** button.
 - n. For **"Name"**, enter an appropriate name (i.e. "SQL Server (Apexx)") and description in the fields provided then click the **"Finish"** button.
4. Download and install Microsoft SQL Server Management Studio (SSMS) by entering the following URL in your web browser > **<https://aka.ms/ssmsfullsetup>**.

Note: after installation, your computer will need to be restarted

5. Open Microsoft SQL Server Management Studio and do the following:
 - a. In the **"Connect to Server"** window, click the **"Connection Properties"** tab then select **"Trust server certificate"**. Click the **"Connect"** button to connect to the Apexx server.
 - b. If using a Domain, open a New Query window and execute the following:
 - **CREATE LOGIN** [<domainName>\<apiServerName>\$] **FROM WINDOWS**
 - **EXEC** sp_addsrvrolemember '<domainName>\<apiServerName>\$', 'sysadmin'
 - **CREATE LOGIN** [<domainName>\<brokerServerName>\$] **FROM WINDOWS**
 - **EXEC** sp_addsrvrolemember '<domainName>\<brokerServerName>\$', 'sysadmin'
 - c. If you are not using a domain, do the following
 - i. Right-click on the Apexx Server Database Instance and select **"Properties"**.
 - ii. Click the **"Security"** page, then select **"SQL Server and Windows Authentication mode"** as the server authentication method, then click the **"OK"** button.
 - iii. Right-click on the Apexx Server Database Instance and select **"Restart"**.
 - iv. Open a New Query window and execute the following:
 - **CREATE LOGIN** [<apiUserName>] **WITH PASSWORD =** '<apiPassword>'
 - **EXEC** sp_addsrvrolemember '<apiUserName>', 'sysadmin'
 - **CREATE LOGIN** [<brokerUserName>] **WITH PASSWORD =** '<brokerPassword>'
 - **EXEC** sp_addsrvrolemember '<brokerUserName>', 'sysadmin'

API Machine - Installation/Setup

1. Install the Apexx Prerequisites by doing the following:
 - a. In the installation file directory, open the **"Apexx Prerequisites Setup"** folder.
 - b. Right-click the **"APEXX Prerequisites.exe"** file and choose **"Run as Administrator"**.
 - c. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.
2. Install the .NET hosting package by doing the following:
 - a. In the installation file directory, open the **"NET 8 – Framework Setup"** folder.
 - b. Right-click the "dotnet-hosting" .exe file and choose **"Run as Administrator"**.
 - c. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.
3. Install the Apexx API by doing the following:
 - a. In the installation file directory, open the **"Apexx API Setup"** folder.
 - b. Right-click the **"setup.exe"** file and choose **"Run as Administrator"**.
 - c. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.
4. Navigate to the  **"Notepad"** program on your computer, right-click and choose **"Run as administrator"**.
5. In Notepad, click **"File" > "Open"**. Navigate to the **"C:\Program Files (x86)\dormakaba\APEXX API\appsettings.json"** file, then click the **"Open"** button.
6. In the open **appsettings.json** file, change the following settings:
 - **"ConnectionStrings:Trinity"**
 - Change **"Server=localhost"** to **"Server=<dbServerName>"**
 - if not using a domain:
 - change **"Integrated Security=true"** to **"UserID=<apiUserName>;Password=<apiPassword>"**
 - **"BrokerHostSettings:EndPoint"**
 - Change **"localhost:8883"** to **"<brokerServerName>:8883"**
7. Save the **appsettings.json** file, then close it.
8. Add Firewall exceptions for the API by doing the following:
 - a. Launch Windows Defender Firewall **"WF.msc"** (located in C:\Windows\System32 folder)
 - b. In the left panel, click **"Inbound Rules"**.
 - c. In the right panel under **"Actions"**, click **"New Rule..."**.
 - d. For **"Rule Type"**, select **"Port"**, then click the **"Next"** button.

- e. For **"Protocol and Ports"**, select **"TCP"**. Select **"Specific local ports"** and type **"5001"** into the text box, then click the **"Next"** button.
 - f. For **"Action"**, select **"Allow the connection"**, then click the **"Next"** button.
 - g. For **"Profile"**, make sure **"Domain"**, **"Private"**, and **"Public"** are all selected, then click the **"Next"** button.
 - h. For **"Name"**, enter an appropriate name (i.e. "Apexx API (TCP-In)") and description in the fields provided then click the **"Finish"** button.
9. Open  **"Services"**, then locate and right-click the **"APEXX API"** service and select **"Start"**.
 10. Launch **"certlm.msc"** (located in C:\Windows\System32 folder) and do the following:
 - a. Click the **"Trusted Root Certification Authorities"** store and open the **"Certificates"** folder.
 - b. Right-click **"Apexx .Net Root CA"** and select **"All Tasks" > "Export..."**.
 - c. Copy the export file, as it will need to be copied to the Broker and Client machines.

Broker Machine - Installation/Setup

1. Install the Apexx Prerequisites by doing the following:
 - a. In the installation file directory, open the **"Apexx Prerequisites Setup"** folder.
 - b. Right-click the **"APEXX Prerequisites.exe"** file and choose **"Run as Administrator"**.
 - c. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.
2. Install the .NET hosting package by doing the following:
 - a. In the installation file directory, open the **"NET 8 – Framework Setup"** folder.
 - b. Right-click the "dotnet-hosting" .exe file and choose **"Run as Administrator"**.
 - c. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.
3. Install the Apexx Broker by doing the following:
 - a. In the installation file directory, open the **"Apexx Broker Setup"** folder.
 - b. Right-click the **"setup.exe"** file and choose **"Run as Administrator"**.
 - c. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.
4. In Notepad, click **"File" > "Open"**. Navigate to the **"C:\Program Files (x86)\dormakaba\APEXX Broker\appsettings.json"** file, then click the **"Open"** button.
5. In the open **appsettings.json** file, change the following settings:
 - **"ConnectionStrings:Trinity"**
 - Change **"Server=localhost"** to **"Server=<dbServerName>"**
 - if not using a domain:

- change **"Integrated Security=true"** to **"User ID=<brokerUserName>;Password=<brokerPassword>"**
 - **"ApiSettings:EndPoint"**
 - Change **"localhost:5001"** to **"<apiServerName>:5001"**
6. Add Firewall exceptions for your Broker by doing the following:
 - a. Launch Windows Defender Firewall **"WF.msc"** (located in C:\Windows\System32 folder)
 - b. In the left panel, click **"Inbound Rules"**.
 - c. In the right panel under **"Actions"**, click **"New Rule..."**.
 - d. For **"Rule Type"**, select **"Port"**, then click the **"Next"** button.
 - e. For **"Protocol and Ports"**, select **"TCP"**. Select **"Specific local ports"** and type **"8883"** into the text box, then click the **"Next"** button.
 - f. For **"Action"**, select **"Allow the connection"**, then click the **"Next"** button.
 - g. For **"Profile"**, make sure **"Domain"**, **"Private"**, and **"Public"** are all selected, then click the **"Next"** button.
 - h. For **"Name"**, enter an appropriate name (i.e. "Apexx MQTT Broker (TCP-In)") and description in the fields provided then click the **"Finish"** button.
 7. Right-click the **"Apexx .Net Root CA"** file (the one you exported from the API machine) and select **"Install Certificate"**.
 8. Open  **"Services"**, then locate and right-click the **"APEXX MQTT Broker"** service and select **"Start"**.

Client Machine - Installation/Setup

Note: If you wish to install the Apexx Series Software Client on another separate computer, ensure that you do the following:

- First install the Apexx Prerequisites and the .NET Framework before installing the Apexx Client software on any remote computer(s).
- For CenconX functionality, you must have a working internet connection while installing the Apexx Client.

1. Install the Apexx Prerequisites by doing the following:
 - a. In the installation file directory, open the **"Apexx Prerequisites Setup"** folder.
 - b. Right-click the **"APEXX Prerequisites.exe"** file and choose **"Run as Administrator"**.
 - c. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.
2. Install the .NET SDK package by doing the following:
 - a. In the installation file directory, open the **"NET 8 – Framework Setup"** folder.
 - b. Right-click the **"dotnet-sdk"** .exe file and choose **"Run as Administrator"**.

- c. Proceed through the Installation steps as presented in the Installer file, clicking **"Next"** through each step until the installation has completed.
3. Install the Apexx Client by doing the following:
 - a. In the installation file directory, open the **"Apexx Client Setup"** folder.
 - b. Right-click the **"setup.exe"** file and choose **"Run as Administrator"**.
 - c. Proceed through the installation steps as presented in the Installer File.

Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations. Sustainability at product level is an important, future-oriented approach in the field of construction. In order to give quantified disclosures of a product's environmental impact through its entire life cycle, dormakaba provides Environmental Product Declarations (EPD), based on holistic life cycle assessments.

www.dormakaba.com/sustainability



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Entrance Automation
Entrance Security



Access Control Solutions

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Escape and Rescue Systems
Lodging Systems



Access Hardware Solutions

Door Closers
Architectural Hardware
Mechanical Key Systems



Services

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Installation and commissioning
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Key & Wall Solutions

Key Systems
Movable / Sliding Walls



Safe Locks

Electronic Safe Locks
Mechanical Safe Locks
Boltworks and Accessories



Glass systems

Manual door systems
Glass fittings
Horizontal Sliding Walls



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AXESSOR APEXX IP
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