

Access Management System



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1 About this documentation

This is the main installation manual for the Access Management System.

Related documentation

The following are documented separately:

- The configuration and operation of AMS and its auxiliary programs.
- The operation of AMS Map View.

Access Management System Overview | en

2 AMS System overview

Access Management System is a powerful, pure access control system, which performs solo or in concert with BVMS, the Bosch flagship video management system.

Its power stems from its unique balance of leading-edge and proven technologies:

- Designed for usability: practical user interface with drag-and-drop Map View, and streamlined biometric enrollment dialogs.
- Designed for data security: supporting the latest standards (EU-GDPR 2018), operating systems, databases and encrypted system interfaces.
- Designed for resilience: middle-layer main access controllers provide automatic failover and replenishment of local access controllers in case of network failure.
- Designed for the future: regular updates and a pipeline full of innovative enhancements.
- Designed for scalability: offering low to high entry levels.
- Designed for interoperability: RESTful APIs, with interfaces to Bosch video management, event handling and specialized partner solutions.
- Designed for investment-protection: allowing you to build on, but boost the efficiency of, your installed access-control hardware.

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3 Installation

Overall procedure

The installation of the system consists of two separate installers: the server and the client. The overall order of installation is as follows:

- 1. Check the system requirements.
- 2. Before installing any client workstations:
- Install the software on the server and verify correct installation.
- On the server, create one or more workstation authorizations for the client workstations,
 and adapt the firewall settings to allow client-server connections.
- 3. Install the HTTPS Certificate on each client machine.
- 4. Install the clients.

Refer to

- Importing the HTTPS certificate, page 10
- Checking if the system is installed, page 12

3.1 System requirements

Minimum technical requirements for an AMS server

Server			
Supported operating systems. Installations on other operating systems may succeed, but are entirely without warranty.	- - -	Windows Server 2016 (64 bit, Standard, Datacenter) Windows 10, version 1809 (LTSC) Ensure that the latest software updates are installed. Note: The default database delivered with this system is SQL Server 2017 Express edition with advanced services	
Minimum hardware requirements	-	Intel i5 processor with at least 4 physical cores 8 GB RAM (32 GB recommended) 200 GB of free hard disk space (SSD disks recommended) Graphics adapter with - 256 MB RAM - A resolution of 1280x1024 (Use the graphic resolution recommended for the client if you wish to run the Map View client on the AMS server). - At least 32 k colors 1 Gbit/s Ethernet card A free USB port or network share for installation files	

Minimum technical requirements for an AMS client

Client, including the Map View client			
Supported operating	_	Windows 10, version 1809 (LTSC)	
systems.	-	Ensure that the latest software updates are installed.	

Client, including the Map View client			
Installations on other operating systems may succeed, but are entirely without warranty.			
Minimum hardware		Intel i5 or higher	
requirements		8 GB RAM (16 GB recommended)	
		20 GB of free hard disk space	
	-	Graphics adapter	
		– 256 MB RAM	
		 To use the AMS Dialog manager, a resolution of 	
		1280x1024 is sufficient.	
		- For AMS Map view, a resolution of 1920x1080 (Full	
		HD) is required.	
		- At least 32 k colors	
	-	DirectX® 11	
	_	1 Gbit/s Ethernet card	
	_	A free USB port or network share for installation files	

Minimum technical requirements for an additional MAC

MAC server			
Supported operating systems. Installations on other operating systems may succeed, but are entirely without warranty.	 Windows Server 2016 (64 bit, Standard, Datacenter) Windows 10, version 1809 (LTSC) Ensure that the latest software updates are installed. 		
Minimum hardware requirements	 Intel i5 or higher 8 GB RAM (16 GB recommended) 20 GB of free hard disk space Graphics adapter with 256 MB RAM A resolution of 1280x1024 At least 32 k colors 1 Gbit/s Ethernet card 		

3.2 Installing the server

Before you begin

- 1. Ensure that the hostname of the intended server machine conforms to the rules specified in the notice box below.
- 2. Ensure that the system is not already installed (see **Checking if the system is installed**).
- 3. Copy the installation package onto your server machine.

Notice!



NETBIOS conventions for computer names apply, for example:

- The name is no longer than 15 characters,
- The name does **not** start with a digit [0-9].
- The name has only Latin characters, without diacritic marks.
- For details, see: https://support.microsoft.com/en-us/help/909264/naming-conventions-in-active-directory-for-computers-domains-sites-and

Start the server installation

- 1. Double-click the software installation package.
- Double-click Server.
- Right-click AMS Server Setup.exe and select Run as administrator from the context menu.
- The installation preparation wizard opens. Follow the installation preparation wizard.
- 4. Select the required components to be installed and click Next>.
- Depending on what is already installed, the wizard presents a list of the software that it will install:
- If there are any non-mandatory components that you do not require, cancel their selections at this point.
- 5. Read the **End User License Agreement** and click **Accept** to continue. If you do not agree, click **Decline** to abort the installation.
- 6. Enter the SQL Database Server configuration data.
- SQL Database Server configuration data:
 - SQL Server: The host name where the SQL Server instance will run. Use the local machine.
 - SQL instance: The SQL instance name
 - AMS database: The name of the database
 - SQL user name: The SQL login
- 7. Click Next>.
- 8. If the default installation path for the server is acceptable, click **Next>**. If you wish to select a different installation path (local drives only), click **Browse**.
- The default installation path C:\Program Files (86) is recommended because the files
 can only be modified by system administrators.
- If you select a different installation path ensure that the path is adequately protected from illicit access.
- 9. Click Next> to continue
- This page configures the API host name.
- 10. Check the pre-installation summary and click Install.
- A summary with all the components you chose to install appears.
- 11. Observe the installation progress bar.
- Once the moving green bar reaches about the middle of the progress bar, it will take several minutes until it starts to move again. Please wait.
- Another dialog box for the AMS database setup will open.
 - If the database is already installed, it will be updated.
 - Otherwise a new database will be created, and you will be required to create a new password for the sa account. IMPORTANT: Store this password securely, as it will be required for updates and other operations.

Database creation can take several minutes. Wait until the dialog box closes.

12. After the operation is completed, click **Next>** and check the post installation summary.

- A summary with all the components that have been installed appears.
- 13. Click Finish to finish the installation.
- A dialog box requesting a restart will open. You must restart the computer to complete the installation of the system.
- 14. Click Yes to restart the PC.
- The PC restarts.
- 15. Check if the system is installed correctly (see **Checking if the system is installed**).
- If so, the first-time installation of the system application is completed. An icon for the system appears on the desktop.

Logging on for the first time

- 1. Double-click the application icon of the system on your Desktop.
- 2. Enter the default user name and password.
 - The default username and password is **Administrator**. Note that the password (but not the username) is case-sensitive.
- 3. Click Log in.
 - A dialog box requesting a password change appears.
 - When logging on for the first time you must change the password in the popup dialog.
- 4. Click **OK** to log on.

Refer to

- Checking if the system is installed, page 12
- Start the server update, page 17

3.3 Deactivate the firewall

After successful installation of the server and before installing client workstations, deactivate the firewall. This allows client workstations and external MAC computers to connect to the server easily during initial configuration.

3.4 Installing client workstations

Before you begin

- 1. Ensure that the hostname of the intended client workstation conforms to the rules specified in the notice box below.
- 2. Copy the installation package onto your intended client workstation.

Notice!

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NETBIOS conventions for computer names apply, for example:

- The name is no longer than 15 characters,
- The name does **not** start with a digit [0-9].
- The name has only Latin characters, without diacritic marks.
- For details, see: https://support.microsoft.com/en-us/help/909264/naming-conventions-in-active-directory-for-computers-domains-sites-and

HTTPS certificates for client workstations

The server of the system hosts several APIs. These APIs communicate via HTTPS and use a self-signed certificate. The server setup program creates this self-signed certificate and installs it on the server machine.

To enable secure communication between server and clients, the certificate from the server must be copied and imported manually on each client machine (see **Importing the HTTPS Certificate**).

Importing the HTTPS certificate

- 1. Go to C:\Program Files (x86)\Bosch Sicherheitssysteme\Access Management System\Certificates\Access Management System Internal CA.cer
- 2. Copy the certificate to the client machine.
- 3. In the client machine, double-click the certificate.
 - A certificate dialog box appears.
- 4. Click Install Certificate.
- The Certificate Import Wizard opens.
- 5. Select Local Machine (recommended) and click Next>.
- 6. Select **Place all certificates in the following store** to specify a location for the certificate (recommended).
- 7. Click Browse.
- A dialog box to select the certificate store opens.
- 8. Select Trusted Root Certification Authorities and click OK (recommended).
- The dialog box to select the certificate store closes.
- 9. Click **Next>** in the Certificate Import Wizard.
- 10. Click Finish to import the certificate.
 - The certificate import process is finished.



Notice!

If the HTTPS certificate is not installed, it will not be possible to start the application.

Note that you do not have to import the certificate to the server machine, as this is automatically done during the server installation. This applies to separate client workstations only.

AMS API integration with BVMS

To integrate the AMS API with BVMS (Bosch Video Management System) version 10.1 or later, import the self-signed certificate from the AMS server into the BVMS machine (see **Importing the HTTPS Certificate**).

Start the client installation

- 1. Double-click the software installation package.
- 2. Double-click Client.
- 3. Double-click AMS Client Setup.exe
 - The installation preparation wizard opens. Follow the installation preparation wizard.
- Select the components that you want to install and click Next>.

 Depending on what is already available on the system, the wizard will select required Microsoft packages for Visual C++ and .NET.

- Optional components:
 - Client
 - Map View
- 5. Read the **End User License Agreement** and click **Accept** to continue. If you do not agree, click **Decline** to go back and cancel the operation.
- 6. If the default installation path regarding the client workstation is acceptable, click **Next>**. If you wish to select a different installation path (local drives only), click **Browse**.
- 7. Enter the server address. Address format: <hostname>:4999/tcp
- By default, the installation wizard installs the system client in the local C: \Program Files (86) folder.
- Files installed under the local C:\Program Files (86) folder can only be modified by users with administrator rights, therefore the default folder is strongly recommended.
- 8. If the default installation path regarding the Map View application is acceptable, click **Next>**.
- 9. If you wish to select a different installation path (local drives only), click **Browse**.
- 10. Enter the discovery address.
- By default, the installation wizard installs the Map View application in the local C: \Program Files (86) drive (recommended).
- The Map View application will connect to the discovery address to discover the endpoints
 of the system. This address is an URL containing the server name and the port number
 where the discovery endpoint is hosted.
- 11. Check the pre-installation summary and click **Install**.
- A summary with all the components you chose to install appears.
- 12. Observe the installation progress bar.
- Wait until the operation is completed.
- 13. After the operation is completed, click Next> and check the post installation summary.
- A summary of all installed components appears.
- 14. Click **Finish** to finish the installation.
- 15. Restart the computer.
- 16. Check if the system is installed (see **Checking if the system is installed**).
- If the installation of the AMS client and the Map View is complete, both application icons appear on the desktop. The default username and password is **Administrator**. Note that the password (but not the username) is case-sensitive.

Before starting the client

Before logging on to the client, you need to configure the client workstation on the server. Follow the procedure below:

- 1. Start the client on the server machine.
- 2. Click Configuration>Device Data
- A new dialog box opens.
- 3. In the top toolbar select the **Workstations** icon.
- 4. In the top toolbar select the **New** icon.
- 5. In the **Workstation** tab fill in the empty fields.
- The fields:
 - Name: Insert the host name of the client workstation (mandatory)
 - **Description**: Insert a description (optional)
 - Login via reader: Perform the login via the reader (optional)

 Automatic Logout after: X seconds (optional). Set an automatic log out if you want the application to log out automatically after a specific amount of time

- Note that the underlined fields are mandatory.
- 6. In the top toolbar click the **Save** icon to save the changes.
- You can now log on from the client workstation.

Logging on for the first time

- 1. Double-click the application icon on your Desktop.
- 2. Enter the default user name and password.
 - The default username and password for both client applications is **Administrator**.
 Note that the password (but not the username) is case-sensitive.
- 3. Click Log on.
 - When logging on for the first time you must change the password. A dialog box appears.
- 4. Click **OK** to enter a new password in the next dialog box.
 - Use a strong password of at least 8 characters.
- 5. Enter your new password and click **Change**. Click **Cancel** to cancel the password change.
 - A dialog box confirming the password change appears.
- 6. Click **OK** to log on.



Notice!

Both the server and the client must be of the same AMS version. Do not try to access the server from a client of a different AMS version.

Refer to

- Checking if the system is installed, page 12
- Importing the HTTPS certificate, page 10

3.5 Checking if the system is installed

Checking if the system is installed

The system is installed if:

- The icons of the system are visible on the desktop.
- The following services are in the Windows Services application (Start > Search > service.msc): DMS, MAC Access PI, Identity service, MAP API, State API.
- The system is in the default installation path: C:\Program Files (x86)\Bosch Sicherheitssysteme\Access Management System\

3.6 Using custom certificates

AMS APIs can be configured to use different certificates instead of using the self-signed certificates that are automatically created during the setup.

This is useful when an organization already has a public key infrastructure (PKI) that has its own Certificate Authority (CA).

3.6.1 Preconditions

Have a trusted root certificate file.

 The public and private parts of the certificate have to be placed on the AMS server directory

 $C:\Program\ Files\ (x86)\Bosch\ Sicherheitssysteme\Access\ Management\ System\ \Certificates$

Examples of public and private parts of a certificate:

- Access Management System Test CA.cer (public part)
- CustomRootTestCA.pfx (private part)

3.6.2 Using custom certificates

Open a PowerShell session

Run PowerShell as Administrator on the AMS server in the folder: C:

 $\label{localization} $$\operatorname{Program Files (x86) \setminus Bosch Sicherheitssysteme \setminus Access Management System} $$\operatorname{Certificates}$$

Remove the installed certificates

- 1. Remove the certificates that were installed during the AMS installation.
- 2. Execute: "RemoveAceApiCertificates.ps1" in the opened PowerShell session.

Edit the script for API-Certificate creation

- 1. Open the PowerShell file "CreateAceApiCertificatesFromOwnRoot.ps1" in a text editor and change the following file names to the names of your custom certificates:
- CustomRootTestCA.pfx
- Access Management System Test CA.cer
 - Note that each file name appears only once in the script.
- 2. Save the changes.

Run the script for API-Certificate creation

- 1. Execute: "CreateAceApiCertificatesFromOwnRoot.ps1" in the PowerShell session that you opened above.
- 2. Enter the password for the private certificate.
- The necessary API certificates are created and installed:
- The root certificate is installed.

Verify the installation of the certificates in Windows Certificates for Current User and Local Computer

The certificate is installed if:

- The root certificate is installed under Current User Personal Certificates,
 Trusted Root Certificates and under Local Computer Trusted Root
 Certificates
- The API-Certificates are installed under Local Computer Personal Certificates

Update the Thumbprint app settings for each API

For each API, the thumbprint must be updated.

Access API

- 1. Open C:\Program Files (x86)\Bosch Sicherheitssysteme \Access Management System\Access API
- 2. Exchange the values in the file appsettings.json, line "Thumbprint":
- Open Certificates Local Computer > Personal > Certificates >
 Friendly Name: Access Management System Access API
- 4. Select and open the installed certificate "Access Management System Access API" > Details
- 5. Scroll down in the list to "Thumbprint"
- 6. Select Thumbprint.
- 7. Copy the displayed Thumbprint (e.g. "da").
- 8. Paste the Thumbprint without spaces into the appsettings.json file, in C:\Program Files (x86)\Bosch Sicherheitssysteme \Access Management System\Access API
- (e.g. "Thumbprint":
 "53d3588285bd570c9799e883b27ef1b139ba28da")

Map API

- 1. Open C:\Program Files (x86)\Bosch Sicherheitssysteme \Access Management System\Map API
- 2. Exchange the values in the file appsettings.json, line "Thumbprint":
- Open Certificates Local Computer > Personal > Certificates >
 Friendly Name: Access Management System Map API
- 4. Select and open the installed certificate "Access Management System Map API" > Details
- 5. Scroll down in the list to "Thumbprint".
- 6. Select Thumbprint.
- 7. Copy the displayed Thumbprint (e.g. "e8").
- B. Paste the Thumbprint without spaces into the appsettings.json file, in C:\Program Files (x86)\Bosch Sicherheitssysteme \Access Management System\Map API
- (e.g. "Thumbprint":
 "3cef0c43be36ee01d8a6ea2f59f170cde96168e8")

States API

- 1. Open C:\Program Files (x86)\Bosch Sicherheitssysteme \Access Management System\States API
- 2. Exchange the values in the file appsettings.json, line "Thumbprint":
- 3. Open Certificates Local Computer > Personal > Certificates > Friendly Name: Access Management System States API
- 4. Select and open the installed certificate "Access Management System States API" > Details

- 5. Scroll down in the list to "Thumbprint".
- 6. Select Thumbprint.
- 7. Copy the displayed Thumbprint (e.g. "e2").
- 8. Paste the Thumbprint without spaces into the appsettings.json file, in C:\Program Files (x86)\Bosch Sicherheitssysteme \Access Management System\States API
- (e.g. "Thumbprint":
 - "37c0bb09d4cab985b620da1c667597ef43b5f8e2"

Identity Server:

- 1. Open C:\Program Files (x86)\Bosch Sicherheitssysteme \Access Management System\Identity Server
- 2. Exchange the values in the file appsettings.json, line "Thumbprint":
- Open Certificates Local Computer > Personal > Certificates >
 Friendly Name: Access Management System Identity Server
- Select and open the installed certificate "Access Management Identity Server" > Details
- 5. Scroll down in the list to "Thumbprint".
- 6. Select Thumbprint.
- 7. Copy the displayed Thumbprint.
- 8. Paste the Thumbprint without spaces into the appsettings.json file, in C:\Program Files (x86)\Bosch Sicherheitssysteme \Access Management System\Identity Server
- 9. Paste the Thumbprints of the other API's in the corresponding Thumbprint entry fields in this file as well.
- Example:
 - For "Name": "AccessApi"
 - "Thumbprint":
 - "53d3588285bd570c9799e883b27ef1b139ba28da"
 - For "Name": "MapApi"
 - "Thumbprint":
 - "3cef0c43be36ee01d8a6ea2f59f170cde96168e8"
 - For "Name": "StatesApi"
 - "Thumbprint":
 - "37c0bb09d4cab985b620da1c667597ef43b5f8e2"

Stopping and starting services

- 1. Open Windows services.
- 2. Right-click the following services and select "Stop" after each one of them:
- Access Management System Access API
- Access Management System Identity Server
- Access Management System Map API
- Access Management System Sates API

After all four services are stopped, right-click the same services again and select
 Start after each one of them.

Installing the Root Certificate on the client machine

- Use Windows file Manager to copy your root certificate "Access Management System
 Test CA.cer" and paste it in the client machine, where the client application "Map
 View" and "AMS" (Dialog Manager) are installed.
 For example, paste it in the Downloads folder.
- 2. Install the Root Certificate:
- In the File Manager, right-click the certificate file and select Install Certificate > Current
 User > Next > Select "Place all certificates in the following store" > Browse > Select
 "Trusted Root Certification Authorities" > Next > Finish > OK

Testing the API certificates on the client machine.

The API-Certificates have to be tested on the client machine, where the client application Map View and AMS (Dialog Manager) are installed.

On the client machine, start the Google Chrome browser.

- To test the Identity Server, enter the following address: https://
 - [ServerHostname]:44333/.well-known/openid-configuration
 - Right-click the website information Lock-icon > Verify "Certificate (Valid)" and check if the correct certificate is being used under "Issued by"
- To test the Access API, enter the following address: https://

[ServerHostname]:44347/swagger

- Right-click the website information Lock-icon > Verify "Certificate (Valid)" and check
 if the correct certificate is being used under "Issued by"
- To test the States API, enter the following address: https://

[ServerHostname]:62901/swagger

- Right-click the website information Lock-icon > Verify "Certificate (Valid)" and check if the correct certificate is being used under "Issued by".
- To test the Map API, enter the following address: https://[ServerHostname]:61801/ \$metadata
 - Right-click the website information Lock-icon > Verify "Certificate (Valid)" and check if the correct certificate is being used under "Issued by"

Using the certificate in AMS.

Start the Map View application on the Client Machine and log on.

3.7 Troubleshooting

If the installation fails the progress bar turns red. Additional error text may be displayed. Click **Next>** to proceed to the summary page that will display which component has failed.

3.8 Updating the system

Before you begin

1. Log on to the server machine.

2. Check if the previous version of the system is installed (see **Checking if the system is installed**).

3. Copy the new installation package into your server machine.



Notice!

Both the server and the client must be of the same AMS version. Do not try to access the server from a client of a different AMS version.

Start the server update

- 1. Double-click the new version of the software installation package.
- 2. Select the interface language.
- Double-click Server.
- 4. Right-click **AMS Server Setup.exe** and select **Run as administrator** from the context menu.
- The installation preparation wizard opens.
- Select the components that you desire to update and click **Next>**.
- Depending on what is already available, the wizard marks the components that can be updated by default.
- You can choose whether to update or skip the update of components.
- Components that cannot be updated will be marked as **Skip** by default.
- 5. Read the **End User License Agreement** and click **Accept** to continue. If you do not agree, click **Decline** to go back and cancel the operation.
- 6. Enter the SQL Database Server configuration data.
- SQL Database Server configuration data:
 - SQL Server: The host name where the SQL Server instance runs i.e., the local machine (recommended)
 - SQL instance: The SQL instance name
 - AMS database: The name of the database
 - SQL user name: The SQL login
- 7. Click Next>.
- The next dialog shows the installation path where the server of the system will be kept.
- By default, the installation wizard installs the server of the system in the local *C:* \Program Files (86) drive (recommended).
- Files installed under the local *C*: \Program Files (86) drive can only be modified by users with administrator rights. This offers security by ensuring that users without administrator rights cannot modify files related to the system.
- 8. Click **Next>** to continue.
- 9. Check the pre-update installation summary and click **Install**.
- A summary with all the components you chose to update appears.
- 10. Observe the installation progress bar.
- Once the moving green bar reaches about the middle of the progress bar, it will take several minutes until it starts to move again. Please wait.
- Another dialog box for the AMS database setup will open.
 - If the database is already installed, it will be updated.

 Otherwise a new database will be created, and you will be required to create a new password for the sa account. IMPORTANT: Store this password securely, as it will be required for updates and other operations.

Database creation can take several minutes. Wait until the dialog box closes.

- 11. After the operation is completed, click **Next>** and check the post-update installation summary.
- A summary with all the components that have been updated appears.
- 12. Click **Finish** to finish the installation of the updated version of the system.
- 13. Restart the PC (recommended).
- The PC restarts.
- 14. Check if the system is installed (see Checking if the system is installed).
- If so, the installation of the updated version of the system application is completed.
- The default username and password is **Administrator**. Note that the password (but not the username) is case-sensitive.

Start the client update

- 1. Double-click the new version of the software installation package.
- 2. Select the interface language.
- 3. Double-click Client.
- 4. Right-click **AMS Client Setup.exe** and select **Run as administrator** from the context menu.
- The installation preparation wizard opens.
- Select the components that you desire to update and click **Next>**.
- Depending on what is already available, the wizard marks the components that can be updated by default.
- You can choose whether to update or skip the update of components:
- Components that cannot be updated will be marked as **Skip** by default.
- Read the End User License Agreement and click Accept to continue. If you do not agree, click Decline to go back and cancel the operation.
- The next dialog shows the installation path where the client of the system will be kept.
- By default, the installation wizard installs the client of the system in the local *C:* \Program Files (86) drive (recommended).
- Files installed under the local *C*:\Program Files (86) folder can only be modified by users with administrator rights.
- 6. Enter the server address. Address format: <hostname>:4999/tcp
- 7. Click **Next>** to continue.
- The next dialog shows the installation path where the Map View application of the system will be kept.
- By default, the installation wizard installs the Map View application of the system in the local C:\Program Files (86) drive (recommended).
- 8. Enter the discovery address.
- The Map View application will connect to the discovery address to discover the endpoints
 of the system. This address is an URL containing the server name and the port number
 where the discovery endpoint is hosted.
- 9. Check the pre-update installation summary and click Install.
- A summary with all the components you chose to update appears.
- 10. Observe the installation progress bar.
- Wait until the operation is completed.

11. After the operation is completed, click **Next>** and check the post-update installation summary.

- A summary with all the components that have been updated appears.
- 12. Click **Finish** to finish the installation of the updated version of the system.
- 13. Restart the PC (recommended).
- The PC restarts.
- 14. Check if the system is installed (see **Checking if the system is installed**).
- If so, the installation of the updated version of the system application is completed.
- The default username and password is **Administrator**. Note that the password (but not the username) is case-sensitive.

Refer to

Checking if the system is installed, page 12

3.9 Uninstalling

To remove the software of the system, follow the steps below:

Uninstalling the server

- 1. Click the Windows Start button.
- 2. Search Control Panel and double-click to open it.
- 3. Follow the path: Programs > Programs and Features > Uninstall a program
- A list of installed programs opens.
- 4. Right-click **Access Management System Server** and select **Uninstall** from the context menu.
- The uninstallation wizard of the system opens.
- 5. Select the components that you want to uninstall and click **Next>**. Click **Cancel** to cancel the process.
- You can choose whether to uninstall or skip components. Most components are mandatory and cannot be skipped.
- Select the components that you want to uninstall and click Next>. After entering the SQL password, click Test Server.
- SQL Database Server configuration data:
 - SQL Server: The host name where the SQL Server runs i.e., the local machine
 - SQL instance: The SQL instance name.
 - AMS database: The name of the database that you created.
 - SQL user name: The SQL login that you created.
 - SQL password: The SQL password that you created for the SQL login.
- 7. Click Next>.
- 8. Observe the uninstallation progress bar.
- 9. After the operation is completed, click Next> and check the post-uninstallation summary.
- A summary with all the components that were uninstalled or skipped will appear.
- 10. Click **Finish** to finish the server uninstallation.
- The uninstallation wizard closes.
- The system disappears from the installed programs list.
- The icon of the system disappears from the desktop.

Uninstalling the client

1. Click the Windows Start button.

- 2. Search Control Panel and double-click to open it.
- 3. Follow the path: Programs > Programs and Features > Uninstall a program
- A list of installed programs opens.
- 4. Right-click **Access Management System Client** and select **Uninstall** from the context menu.
- The uninstallation wizard of the system opens.
- 5. Select the components that you want to uninstall and click **Next>**. Click **Cancel** to cancel the process.
- You can choose whether to uninstall or skip components. Most components are mandatory and cannot be skipped.
- 6. Observe the uninstallation progress bar.
- 7. After the operation is completed, click Next> and check the post-uninstallation summary.
- A summary with all the components that were uninstalled or skipped will appear.
- 8. Click **Finish** to finish the client uninstallation.
- The installation wizard closes.
- The system disappears from the programs list.
- The icon of the system disappears from the desktop.

To complete the deinstallation process, delete the folder \mathcal{C} :

\Program Files (x86)\Bosch Sicherheitssysteme\

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Notice!

Both the server and the client must be of the same AMS version. Do not try to access the server from a client of a different AMS version.

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