

Access Management System (AMS) version 5.2 Release notes

2024-02

This document is intended to familiarize you with your new AMS version.

Document history.

Version	Description
1	2023-02 Initial version
2	2023-09 Technical and linguistic revisions
3	2024-02 Updated content with new Resolved issues added

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1 Installation Notes

1.1 Documentation

Due to the possibility of late changes, the technical documentation for this product in the <u>online catalog</u> may be more up-to-date than that within the product ZIP files, and should be given preference.

1.2 Server requirements

The following are the hardware and software requirements for an AMS server

Supported operating systems (standalone or client/server	 Windows Server 2019 (Version 1809) (64bit, Standard, Datacenter); Windows Server 2022 (64bit, Standard, Datacenter)
mode) Installations of AMS on other operating systems may	 Windows 10 Professional and Enterprise 22H2; Windows 10 21H2 LTSC Ensure that the latest software updates are installed.
succeed, but are entirely without warranty	 Note: The default database delivered with this system is SQL Server 2019 Express edition with advanced services.
Minimum hardware requirements	 Intel i7 processor generation 10 16 GB RAM (32 GB recommended) 250 GB of free hard disk space 300 MB/s hard disk transfer rate 10 ms or less average hard disk response time Graphics adapter with: 256 MB RAM, a resolution of 1280x1024 at least 32 k colors 1 Gbit/s Ethernet card A available USB port or network share for installation files.

MAC server		
Supported operating	Windows Server 2019 (Version 1809) (64bit, Standard,	
systems	Datacenter); Windows Server 2022 (64bit, Standard, Datacenter)	
Installations on other	 Windows 10 Professional and Enterprise 22H2; Windows 10 21H2	
operating systems may	LTSC	
succeed, but are entirely without warranty	Ensure that the latest software updates are installed.	



1.3 Client requirements

The following are the hardware and software requirements for an AMS client:

Supported operating systems (standalone or client/server	Windows 10 Professional and Enterprise 22H2; Windows 10 21H2 LTSC
mode)	 Ensure that the latest software updates are installed.
Installations of BIS on other operating systems may succeed, but are entirely without warranty	 Note: with a Pro edition, updates must be deferred until 8 months after the release of the AMS version. For further information see the Microsoft technet page at https://technet.microsoft.com/en-us/itpro/windows/manage/introduction-to-windows-10-servicing Intel i5 (Gen 6 / Skylake or newer) or higher, multiple cores
Minimum hardware requirements	 8 GB RAM (16 GB recommended) 25 GB free hard disk space Graphics adapter with 256 MB RAM a resolution of 1280x10240 at least 32 k colors OpenGL® 2.1 and DirectX® 11 WebGL2-compatible (for example, Intel UHD Graphics 600 class or comparable), non-virtualized 1 Gbit/s Ethernet card Free USB port for Dialog Reader or camera Recommended: Wide-screen monitor for Map application

Web Browser	Version
Google Chrome	116 or higher
Microsoft Edge	116 or higher
Mozilla Firefox	102 or higher

1.4 Databases: support for MSQL 2019

For new installations of AMS 5.2, SQL Server 2019 Express edition will be installed if you are not using your own purchased version.

On update from AMS 3.0.1, the SQL Server 2017 is updated to SQL Server 2019 if database was installed by AMS setup.

Database backups are then found in ... \MSSQL14.ACE instead of ... \MSSQL15.ACE

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1.5 Update of AMS 1.0 to AMS 5.2

- 1. Upgrade from 1.0 to 2.0 as described in the AMS 2.0 installation guide.
- 2. Upgrade 2.0 to 5.2 as described below.

1.6 Update of AMS 2.0/3.0/3.0.1/4.0/4.0.1/5.0/5.0.1 to AMS 5.2

- 1. Create a backup of the old AMS installation.
- 2. Update directly to AMS 5.2, as described in the installation guide.

Before putting AMCs online after an update, ensure the AMC is physically connected to the network and that the device communication password (DCP) has been set.

The automatic provisioning phase of firmware to the AMCs lasts 15 minutes from the time of saving the changes made in the device editor. AMCs that are not reachable within these 15 minutes will not receive the firmware update. To restart the provisioning phase:

- 1. Clear the **Enable** check box and save the configuration.
- 2. Select the Enable check box and save again.

Alternatively, the provisioning phase can be activated using the AMCs context menu:

- For AMS.
- 1. Command in the MAP View: Send TLS key.

Follow this procedure also whenever you have cleared the DCP using the AMCIPConfig tool or cleared the key via AMC's LCD display button.

1.7 Languages

GUI supported languages in core AMS 5.2:

- AR-EG
- EN-US
- ES-AR
- DE-DE
- FR-FR
- HU-HU
- NL-NL
- PL-PL
- PT-BR
- RO-RO
- RU-RU
- TR-TR
- ZH-CN
- ZH-TW



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Note: AMS 5.2 add-ons do not support all the languages supported by AMS 5.2. Refer to the datasheet for more information.

1.7.1 Locale setting required for non-English installations

For non-English characters, such as Arabic, Russian and diacritic Latin characters, AMS requires the Windows system locale to be set to the chosen language. Otherwise AMS reports and some dialog controls will show placeholder characters instead. **Note**: If the operating system is using a multi-language pack, ilnstalling a language pack does not update the System Locale, so it must be set manually.

For example, in the case of Arabic:

- Regional Settings > Administration > Language for non-Unicode programs > Change system locale and select an Arabic locale.
- Verify that the SQL server collation is set to "Arabic_CI_AS".

Alternatively, run the 'Set-WinSystemLocale' cmdlet with Administrator permissions. For example, Set-WinSystemLocale "ar-SA" sets the System Locale to 'Arabic (Saudi Arabia)'.

1.7.2 AMS Setup languages and Operating Systems

The language of the AMS Setup UI uses the current UI culture of the OS. For example, if the UI culture of the OS is Portuguese Brazil (pt-BR), the AMS Setup UI will be also in Portuguese Brazil. The current UI culture of the OS can be checked by the PowerShell command *Get-UICulture*. If the OS UI culture does not match the locale of the AMS Setup UI will be in English (en-US).



	Build	
Component	version	Location
Importer/Exporter	1.2.24	AMS Media Package Folder: AddOns/Standard/ImportExport
Occupancy Monitor	1.2.12	AMS Media Package Folder: AddOns/Advanced/OccupancyMonitor
AECT Tool	1.0.0.7	AMS Media Package Folder: AddOns/Advanced/AECT
Bio IP Config Tool	5.0.1	AMS Media Package Folder: AddOns/Advanced/BioConfig
IPConfig (AMC)	1.12.3	AMS Media Package Folder: AddOns/Standard/AccessIpConfig
SDK Version	5.2	AMS Media Package Folder: AddOns/Advanced/API
MAC Installer	5.2	AMS Media Package Folder: AddOns/Advanced/MultiMAC
Key Management Tool	2.6.2	AMS Media Package Folder: AddOns/Advanced/ReaderConfigTool
Inrusion RPS API	2.2.27914	AMS Media Package Folder: AddOns/Advanced/Intrusion-RPS-API
Milestone PlugIn	5.2	AMS Setup Folder: <language>\ServerPlugin</language>
BVMS Version	11.1.1	Download Store /Product Catalogue
VisitorManagement	5.1.28	Download Store /Product Catalogue
CredentialManagement	1.0.165	Download Store /Product Catalogue
MobileAccess	2.1.171	Download Store /Product Catalogue
Milestone Xprotect	2020 R3	Download Store Milestone

1.8 Compatibility List of Software Components for AMS 5.2



2 New Features in AMS 5.2

2.1 Multi User Manager

Multi User Manager (MUM) is an additional AMS feature. This web-based service allows administration of MAP 5000 panels users via an IP connection. It is designed for customers running several MAP 5000 panels to administrate the users on all the panels. Without Multi User Manager, this administration is done locally on each panel.

2.1.1 Features

• Hierarchy Display

The ability to display MAP devices in a hierarchical structure has been introduced. This feature allows MAP devices to be organized and viewed in a structured manner, enhancing the management of security systems across the organization. With the hierarchy display feature, MAP devices can now be easily visualized and navigated across headquarter and branch locations, streamlining the monitoring process for security managers.

• MAP Panel Grouping

The capability to group MAP panels for efficient management has been added. This feature enables MAP panels to be categorized and managed effectively with support for up to 800 MAP panels per MUM installation. The MAP panels can now be grouped based on their location, function, or any other criteria, simplifying the task of monitoring and controlling MAP systems within the Control Room for Security Managers.

Panel User Management

Panel users, users assigned to a single ID within a single MAP panel, can now be managed both locally on a MAP 5000 touchscreen and remotely through the Multi User Manager system. Operators can efficiently manage panel users by making changes on-site or remotely, providing flexibility in user administration.

Multi-panel User Management

Multi-panel users, users assigned to a single ID to multiple MAP panels, can use their passcode across all assigned panels. These users are exclusively managed by the Multi User Manager system. The changes in passcodes are synchronized across all panels. Multi-panel users benefit from centralized management by Multi User Manager, ensuring consistent passcode synchronization across all assigned panels.

User Capacity



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Multi User Manager can handle up to 994 users per panel, including panel users and Multipanel users. Additionally, a single Multi User Manager system can manage up to 20,000 users. With increased user capacity, the system can accommodate the growing user base, ensuring robust user management.

2.1.2 Known Limitations

• One-time Import of Reference Panel

The reference panel can be imported only once per Multi User Manager installation.

Synchronization Period Clarification

When synchronizing user data from Multi User Manager to AMS, this change occurs immediately. When synchronizing user data from AMS to Multi User Manager, changes will be obtained when the synchronization interval is met. For example, every five minutes.

• Time Zone Setting

Time is reported to the panel in UTC format, and it is upon the panel to convert time to the local time. Therefore, users need to configure the right time zone on the panels.

• Error Messages in OS Language

Some error messages might be displayed in the Operative System configured language (e.g. "No connection could be established because the target machine actively refused it.").

Lack of Division Support

The use of Divisions as supported in AMS is currently not available in Multi User Manager.

User Name Synchronization

Users which names contain the character "*" will not be synchronized by Multi User Manager, as this character is forbidden in AMS.

Risk of Removing Key Person

It is possible to delete from the User who holds the OII credentials from the panel, which stops the communication with the MAP panel. Users must make sure this "user" is not deleted.

• Panel User Data Synchronization



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Once a panel user is synchronized with Multi User Manager, any modification performed in the panel to the user data will not be synchronized (e.g. First name, last name). The only exception is the passcode.

• Multi User Manager to MAP Panel User Data Synchronization

Once a panel user is synchronized with Multi User Manager, any modification performed to the user data through the MUM UI will not be synchronized (e.g. First name, last name). The only exception is the passcode.

• MUM database excluded from Backup-Restore

Currently, due to the security technology used, it is not possible to backup and restore the MUM database.

• Hardware Requirements

The current hardware requirements may not support the capacity needed for 800 panels. Update and communicate the hardware requirements to ensure that they effectively.meet the demands of supporting 800 panels

• Network Constraints

The system performance can be affected by network constraints in a client-server architecture relying on HTTPS communication. Provide guidance on network configurations and best practices to mitigate the impact of network constraints on system performance and stability.

2.1.3 Manual backup process

Note that the following restoration process is specifically designed for Multi User Manager databases with their inherent encryption. Due to this encryption, successful restoration is ensured only if the restore is executed on the same system where the backup was initially created.

Restoring on a different system may result in inaccessible or corrupted data due to encryption key mismatches derived from the original system.

Warnings:

- Ensure there are no MUM operations ongoing or occurring updates during the backup. This ensures a consistent database state.
- Aleet users or administrators about the impending backup operation and any associated downtime.



Database Backup procedure:

- 1. Launch SSMS:
 - 1.1. Start SQL Server Management Studio. If it's not installed, you can download it from Microsoft's website.
- 2. Connect to the Database:
 - 2.1. When the "Connect to Server" window pops up, enter the server's name (e.g., WORKSTATIONNAME\ACE) and choose SQL Server Authentication. Enter the credentials (the same defined during AMS installation) and click on "Connect."
- 3. Backup the Database:
 - 3.1. Once connected, in the Object Explorer, expand the "Databases" node by rightclicking on the **Bosch.MUMDb** database.
 - 3.2. From the dropdown menu, navigate to: **Tasks > Back Up**.
 - 3.3. The "Back Up Database" window will appear. Ensure the "Database" field is showing the correct database name **Bosch.MUMDb**.
 - 3.4. In the "Backup type" dropdown, select "Full."
 - 3.5. For the "Backup component", ensure "Database" is selected.
 - 3.6. In the "Destination" section, you can see where the backup will be saved. If you want to change this location:
 - 3.6.1. Click on "Remove" to remove the existing path.
 - 3.6.2. Click on "Add..." and choose a new location.
 - 3.7. Make sure the file name ends with a .bak extension. Ideally, include a timestamp in the name as mentioned before (e.g., MUM_backup_YYYYMMDD_HHMMSS.bak).
 - 3.8. Once everything is ready, click on "OK" to start the backup process.
- 4. Completion:
 - 4.1. After the backup completes, you should see a message stating that the backup completed successfully. Click "OK" to close this message.
 - 4.2. You can now navigate to the backup location in the file system to confirm the backup file's presence.

Documentation:

- Document the exact date and time of the backup.
- Note down any special considerations or observations during the backup process.

Secure the Backups:

- Store the backup files in a safe location on the system.
- Ideally, make a secondary copy on an external drive or secure network location as a redundancy measure, even though the restoration can only happen on the original system.



Restore:

- 1. Preparation:
 - 1.1. Alert users or administrators about the impending restore operation and any associated downtime.
 - 1.2. Ensure no active users or operations are accessing MUM.
- 2. Database Restoration:
 - 2.1. Launch SSMS: start SQL Server Management Studio.
- 3. Connect to the Server:
 - 3.1. Upon launching SSMS, the "Connect to Server" window will appear. Enter the server name and choose the appropriate authentication method (Windows Authentication or SQL Server Authentication).
 - 3.2. Enter your credentials if necessary and click on "Connect."
 - 3.3. Initiate the Restore Process: in the Object Explorer, right-click on the Databases node (or directly on your MUM database if it's still present) and navigate to: Restore > Database.
- 4. Restore Settings:
 - 4.1. In the "Destination:" field, either select your **Bosch.MUMDb** database from the dropdown list or type in its name.
 - 4.2. In the "Source" section, select "Device:" and click on the "..." button to its right.
 - 4.3. A window named "Select backup devices" will pop up. Click on the "Add" button.
 - 4.4. Browse to the location where your .bak backup file is saved, select it, and click "OK."
 - 4.5. In the "Select backup devices" window, click "OK" again to confirm the backup file's selection.
 - 4.6. You should now see the backup sets available for restore in the "Restore Plan" section. Ensure the checkboxes next to the backup sets are selected.

5. Options Configuration:

- 5.1. Navigate to the "Options" page on the left sidebar.
- 5.2. In the "Restore options" section, ensure "Overwrite the existing database (WITH REPLACE)" is checked. This is crucial if you're restoring over an existing database.
- 5.3. In the "Recovery state" section, you can usually leave it at the default setting ("Leave the database ready to use by rolling back uncommitted transactions. Additional transaction logs cannot be restored. (RESTORE WITH RECOVERY)"). However, if you have specific requirements, adjust accordingly.

6. Execute Restore:

6.1. Once all settings look correct, click on "OK" to begin the restore process.

Warning: Restoring a database from a backup will overwrite the existing data, so always be sure you want to perform this operation and double-check the backup file you're restoring from.



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- 5. Completion:
 - 5.1. Once the restoration process completes, you should see a message stating that the database has been successfully restored. Click "OK" to close this message.
 - 5.2. You can now navigate to the Databases node in SSMS to see your restored MUM database.
- 6. Validation:

Once the restore process is complete, launch and test MUM to ensure the restoration was successful and that data integrity is maintained.

Review any restore logs or application logs for errors or inconsistencies.

7. Communication:

Inform users or administrators that the restore process is complete and that they can resume their activities.

8. Documentation:

Document the exact date and time of the restoration. Note any issues, solutions, or observations made during the restore process.

2.2 Improvementes for Mobile Access, Credential Management, Visitor Management

Support of the new release of Mobile Access 5.2, Credential Management 5.2 and Visitor Management 5.2

The API of the Mobile Access Backend has split into a front-channel part and a backchannel part. The front-channel is supposed to communicate to mobile phones while the back-channel communicates with Credential Management and/or Visitor Management.

This allows now to set firewall rules and routes to regiment network traffic in order to strengthen IT security. The split of the API comes with two separate port numbers. That is, the mobile phones continue communicating to port number 5700, while Credential Management and Visitor Management address port 5701.

Both Credential Management and Visitor Management have now two separate settings for the front-channel URL and the back-channel URL respectively. The user interface calls them "Administrative service address" (back-channel) and "Registration service address" (front-channel).



Default port for "Administrative service address" (back-channel) is 5701. In a customerspecific firewall rule that port should be configured to only communicate with the AMS Server machine.

Default port for the "Registration service address" (front-channel) is 5700. In a customerspecific firewall rule this port should be configured to be reachable from the Mobile Access apps. In many scenarios that end-point would be accessible from outside. However, this is highly dependent on customer scenario.

If you are updating from an earlier version to AMS5.2, then the settings of Credential Management and Visitor Management need to be adjusted. This setting is accessible for the Administrator role for Visitor Management and Credential Management.

The back-channel should be secured to not be reachable from the public / any unauthorized network.

Note that old invites (QR-Codes and Mail-links) can still be accepted after the update.

2.3 OSS-SO support Legic Advant

The OSS-SO subsystem currently supports the configuration of "Legic Advant" card technology. AMS supports Mifare Desfire and Legic Advant using OSS-SO. Only one card technology per system can be supported. For this reason, deciding which card technology to use before importing locks is important.

Remark: Select first the card technology before import of locks into AMS OSS-SO system. Reason: The card technology cannot be switched until locks are added.



3 Mandatory installation steps for Intrusion integration

The integration of B/G intrusion panels in AMS requires the installation of the Intrusion RPS API version V2.1.25920 or later. The RPS API must be installed on the same computer as the RPS tool. The RPS tool is needed to configure and manage the communication with the B/G panels. The RPS API conveys communications from AMS to the RPS tool, which then communicates with the panels. SDK communication to the B/G panels is integrated in AMS. No separate installation is required, but **Mode2** and **AutomationPasscode** must be enabled on the panel.

For small installations, it is possible to install AMS and RPS on the same computer with the following prerequisites:

- AMS has never been installed on the computer
- SQL Server database has never been installed on the computer
- RPS must be installed before AMS

3.1 Supported panels and panel extensions

The following B/G intrusion detection panels are supported by AMS 5.2:

- B3512
- B4512
- B5512
- B8512G
- B9512G
- B6512
- B901 Access Control Module (door state only and cardholder management possible)



4 Optional post-installation steps

4.1 Security recommendations for user authorizations

On the AMS server, define only Windows users who are intended to change the AMS setup (files, certificates, registry and licenses), and assign them Windows Administrator rights. **Explanation**: The file structure containing the certificates and configuration files should only be accessible to Windows Administrator and System users.

4.2 Retention time of system events

The retention time for system events is configurable. <u>The default is set to 30 days</u>, which means that events that are older than 30 days are deleted automatically. This seeting has no impact on the *Event viewer*. This only affects *Entrance events* and *Audit trait*. To specify a different value, follow these steps:

- 1. Start Registry Editor (press [Windows]+[R], enter "regedit.exe").
- 2. Navigate to path: HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Micos\SPS\DEFAULT_\Log gifier\SysKeep
- 3. Double click value "@value" (shown in the right pane) and enter a new value.

Note: The retention time has a major impact on the size of the backup files being created. The value choice should be as low as possible.



5 Resolved issues in AMS 5.2

#416188 CFS: Manually moved car to a full Parking area cannot leave.

Fixed Problem: In a full parking area, a car can still be manually booked-in. However, after that, the car cannot leave the area.

The car can be booked in manually as previously, but the operator will get a message as before. If the car is booked in the area, the area counter can be bigger than maximum. allowed. In such cases, the car can leave the area and its counter is in valid range again.

#248790 Membership does not work with some types of cards and readers. Fixed Problem: Membership does not work with OSDP as Bosch Code. Fix result: Membership-only works for any Bosch-code or Facility/Cardnr card. All other cards do have a membership-like-code and therefore cannot be used with membership-only.

#323446 CFS: OSDP readers may appear online when switching from secure to unsecure. Fixed Problem: After switching Rosslare reader to OSDP secure mode and back to unsecure mode, the reader appears online.

#399798 Sometimes Gateway service does not start on Windows System start Fixed Problem: Sometimes the Gateway service does not start at Windows System start, but the service appears online in MAP view.

Introduced: Error Message is sent in case the Gateway service does not start after Windows System start.

#411272 MAC does not send configuration to AMC if the time between MAC and AMC is too far apart.

Fixed Problem: In case the clock of the AMC is more than 15 minutes different from MAC, the MAC does not send any parameters to the AMC.

#412047 CFS: Change of a person's division does not update division in table acpersons making it disappear from the GUI for some operators.

#409808: Biometric access control (e.g. IDEMIA readers) cannot be used in combination with mobile access for the same user.

If multiple cards are used for the same cardholder, then the combination is allowed. Mobile access card types are not transferred to IDEMIA because the biometric system cannot work with mobile devices.

#409910: No demo license is automatically activated after a completely new setup. Select the demo license manually or use a purchased license.

#414297 CFS: ChangePasswordTool.exe User used to log in to database is not changeable. The user is always sa.



The ChangePasswordTool allows to use other database operators instead of sa, but they must have the database permission to change the password.

#422272 CFS - BioConfig - Shows not the correct model name.

The used model name cannot be estimated over the network. The BioConfig tool currently uses a general name and not the specific model name.

#425673 CFS: AMS 5.0.1 No more login possible with DlgMgr.

Some special characters in passwords made it not possible to login to MapView. Currently, these special characters are allowed inside a password.

#427133 CFS: Door model 10 allows to select an arming area, although this is only supported by door model 14.

Device editor does not support no longer arming area in door model 10.

#323446: Readers of type LECTUS select or LECTUS duo appear online but do not react to AMC communication

Disabling the secure OSDP channel checkbox in the device editor does not disable the secure channel on the reader. It will only cause the access control system to use unencrypted communication. The reader can still be polled and appears to be online, but it continues to reject any unencrypted communication.

Currently, messages are sent to show if the connection works or not.

#443565 Changed identification PIN input sequence not announced and documented

Fixed Problem: Due to necessary changes in AMC Firmware, the Input Sequence for Identification PIN and Office Mode for Wiegand protocol was changed. Now the Sequence is identical to OSDP protocol and LBUS protocol.

AMS Help files in *PIN codes for personnel* and *Authorizing persons to set Office mode* are updated: Information in the Notice in section *PIN codes for personnel*:

«At readers with all protocols (RS485, Wiegand and LBUS), the cardholder enters: 4 # <the PIN>. » Information in *Authorizing persons to set Office mode*:

«To start stop office mode at an entrance, the cardholder presses the number 3 # on the keypad, and then presents their specially authorized card at the reader. The entrance remains unlocked until an authorized cardholder presses 3 # and presents the card again. »

#426195 AMS allows configuration of door model 10/14 with manual card number entry

Fixed Problem: The combination of feature *Identification PIN* with feature Arming and *Feature Office Mode* is not disabled in the user interface but results to complex input sequences for the customer. Since these combinations are not foreseen, they are not tested and thus the AMS Help file *PIN codes for personnel* is complemented with the sentence: «Arming and Office mode is only supported with physical cards.»



6 Recommended practices

6.1 Intrusion integration

Best practice:

While the RPS Tool is actively communicating with an Intrusion panel, the AMS system cannot propagate data down to that panel via the RPS API. The changes will be propagated after the communication channel has become clear.

Recommendation: After synchronization between RPS Tool and Intrusion panel, they should be disconnected; do not leave the connection open.

AMS Dialog "Panel administration" displays panels. These panels are displayed as soon as an RPS panel configuration is created. This occurs whether the panels are online or not.

To delete a panel from AMS do the following:

- Delete the panel configuration with RPS Tool AMS dialog "Panel administration". The panel state now shows "deleted".
- 2. In AMS dialog "Panel administration", any panel that is in state "deleted" can now be deleted from AMS by selecting "Delete selected panels".

Disarming an Intrusion area on a keypad via card is not possible for areas that are in the background.

In case "Arm" and "Disarm" via card should be shown on keypad, ensure that the Armed and Disarmed is configured in the RPS Tool: **KEYPADS** > **Keypad Assignments** > **Area Assignment**

Recommendation: Present Arming and Disarming only by using a card from an Intrusion user who is assigned to Area 1 (the default area, which is per default in foreground).

Do not create users by using the RPS Tool, only in AMS.

Explanation: If a user is already configured in the B/G panel with the same passcode as a new user created by AMS, a synchronization conflict will occur. The user that was created on the panel cannot be deleted.

Note: For the command and control of Intrusion devices in AMS Map View, the clocks of the Intrusion panel and the AMS computer must be within 100 days of each other.



6.2 Reactive Firewall after Client Workstation Installation

In section 4.4 in the Map View Operation manual the statements suggest deactivating the firewall prior installation of the client workstation. This measure is only temporary, i.e., after successful installation of the clients, the firewall must be reactivated again.

6.3 Reload button in Map View

The Map View application provides a "**Reload**" button in the toolbar. After clicking that button the *entire* data of the Map View application will be reloaded. Depending on the configuration, this will take several seconds or up to several minutes.

Recommendation: Use this button only after making configuration changes (e.g. adding new devices or maps), as these are not automatically updated in the Map View application. Do not use it to view the latest state changes, as these are automatically updated by the Map View application.

6.4 Signature Pad

Make sure that the latest signature pad firmware is installed on the corresponding client machine. The firmware installation file is located within the delivered AddOns folder (Firmware File: signotec:TWAIN_8.0.0.exe). The latest driver can be downloaded from https://www.signotec.com/service/downloads/treiber/ (German) or https://www.signotec.com/service/downloads/treiber/ (German) or https://en.signotec.com/service/downloads/treiber/ TWAIN and WIA Driver

6.5 Milestone Xprotect

Supported XProtect versions: Corporate 2020 R1 and higher.



7 Known limitations and workarounds

7.1 AMS Setup and Update

#385841 Arming the outputs of a door model 14(b) not working correctly

If multiple door models of type 14(b) are created, and they share input-\output-contacts, then, the Intrusion system will not correctly arm and disarm the area.

Bug fixed - If a door model 14 was configured before using shared signals, then, after an AMS Upgrade the door signal configuration must be checked and reconfigured if needed.

#397466 Special day configuration reset to default by update from earlier AMS Version to AMS 5.2

AMS languages with preconfigured special days, the special day configuration is updated in next AMS version again. If the customer changed the existing new year, they are restored to the definition of the AMS setup again.

Workaround: Disable special days in your time models or reconfigure the changed special days after upgrade/repair of AMS.

#324081 BadgeDesigner – Only common division available

After an upgrade from an AMS where multiple divisions had been assigned to an operator: If you start the BadgeDesigner before accessing dialog manager, sometimes only the "common" division is available to the BadgeDesigner menus.

Workaround: Restart the dialog manager and log in before running the BadgeDesigner.

#430471 AMS 5.2: Badgedesigner on Client - layouts cannot be saved

Workaround: Use the BadgeDesigner on the server.

#357322 MAC setup is available in English only (English is the default).

#409697

AMS 5.0.1 update from AMS 5.0 authorization profiles assigned to Persclass (person class) is no longer working for default person classes, including visitors and external employees. **Workaround:** In the Person Classes dialog, reassign the authorization profiles to those classes.

#410291

Licenses no longer work after running a repair setup, if you use Windows **Apps & features**. **Workaround:** Do not use the **Modify** button in Windows **Apps & features**. Always run the AMS server's Installer.exe to repair the system. Building Technologies



8 Additional information

8.1 AMS general

8.1.1 Cybersecurity guidebook location

After the execution of the AMS Server setup, a desktop link named *AMS documentation* can be found. Double-click on Windows Explorer, it will redirect to the directory where the Cybersecurity guidebook and further documentation can be found.

8.1.2 Event viewer (AMC/MAC messages not visible)

The following error\info events from AMC/MAC subsystem are invisible (not shown in event viewer) but found in debug logging and old LogViewer application details for the support team.

• MSG_ACS_CARD_DATA_FRAME_CORRUPTED = 0x01000A00;

This event is generated when a frame containing card data is received from a reader that is somehow corrupted (e.g. incomplete or too large).

• MSG_ACS_CARD_DATA_CONFIGURATION_INVALID = 0x01000A01;

The AMC is trying to apply a card data definition that is not valid (e.g. with an unsupported code data mode or a bit length that is incorrect for the conversion mode).

• MSG_ACS_CARD_DATA_PARITY_ERROR = 0x01000A02;

An error was detected while validating the parity data embedded in the card data. (In the past MLD_LESEFEHLER1)

MSG_ACS_CARD_DATA_DOES_NOT_MATCH_CONFIG = 0x01000A03;

None of the card data definitions configured in the system match the card data provided by the reader.

• MSG_ACS_CARD_DATA_INVALID_FIELD_VALUE = 0x01000A04;

The fields in the card data have some values that are outside the allowed range or generally have corrupted a value (e.g. letters in fields that can only contain numbers).

• MSG_ACS_CARD_DATA_INTERNAL_ERROR = 0x01000A05;

This message should not be generated. If it occurs then there is an AMC-internal logic error.

• - MSG_ACS_OFFICEMODE_DENIED = 0x01000977;



OFFICE MODE permission denied. (Card does not have correct authorizations to perform office mode toggle).

• MSG_ACS_OSDPSC_REJECTEDBYREADER = 0x01000667;

OSDP secure connection rejected by reader.

Note: Translation to other languages are not available. It is available in English only.

8.1.3 Known bugs in AMS 5.2

#240264

For AMCs input/output signals only conditions of type "state" can be used for the FOLLOW_STATE function.

The following conditions are of type "event", and cannot be used with the FOLLOW_STATE function.

- 11 Door n forced open alarm
- 12 Door n left open
- 13 Reader shows access granted
- 14 Reader shows access denied
- 23 Messages to readers
- 24 Messages to devices
- 25 remote control Function set

AMC IO events 13 (Reader access granted) and 14 (reader access denied) are not always processed if the events follow each other within 2 seconds.

#342685 Microsoft print to PDF and Microsoft XPS document writer

Microsoft PDF print does not work from .NET dialogs on any operating system. **Workaround**: Use other PDF printer drivers, such as doPDF.

#371585

AMC – Offline/online messages fill up the AMC's flashCard if (e.g.) the DTLS password is incorrect.

#340759

AMC - IO Function fails to react to the To Inspect event.

#356203

IPConfig does not always the show the current firmware version when attempting a bulk firmware update.



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#349902

AMCIPConfig no longer allows access with the correct password after running for several hours.

Workaround: Always close the tool after use.

#24400

Map View - Areas: All non-parking areas fail to show the states FULL/EMPTY.

#357428 The validity period of the cardholder is not updated in all cases

The card-validity period of a person is assigned when the person first receives an access profile. Subsequently changing a person's profile does not extend the person's original card-validity period. This behavior will never be fixed. However, it is noted in documentation so the operator can be aware of it.

#380155 Client setup does not perform a reboot in all cases

In some situations the setup will not force a reboot. **Workaround**: Restart the computer after client setup as described in the documentation.

#389164 Server setup does not check for required reboot

Workaround: Always reboot the system and temporarily disable Windows updates before performing an AMS setup.

#388922 Unable to have the twin MAC installed

If a Microsoft .NET 6.0 package without hosting bundle was installed before the Microsoft .NET 6.0 version provided by MAC setup, the MAC setup fails.

Workaround: Uninstall any previously installed .NET 6.0 packages before running the MAC setup. Install the .Net 6.0 Hosting package provided in AMS <ServerPrerequisites> directory or get the newest from Microsoft.

#389610 Custom field 'persclass' can be set "not required"

The field 'persclass' can be configured in such a way but this leads to errors. **Workaround**: If you want to set this field to "not required", make sure that it is also "not visible".

#389696 Defining 9c door models on different AMCs for the same parking lot leads to error

Deletion is no longer possible.

Workaround: Always use door model 9c within the same AMC for one parking lot.



8.1.4 Rermarks - PCS INTUS 1600

- The former PCS INTUS 1600 reader is no longer supported.
- The former PCS INTUS 1600 reader is replaced during upgrade by the generic LBUS (=IBPR) reader, therefore the device configuration is valid again.
- The INTUS 1600 reader can have different firmware versions.
- The readay may work but cannot be guaranteed, because it no longer can be tested (former hardware is not available).

8.1.5 Achieving EN 60839 (AMS 5.2)

Achieving EN 60839 access-control standards: EN 60839 is a family of European international standards for the hardware and software of Intrusion detection and Access control systems. Measures to ensure compliance of your Access control system with EN 60839 are described in the AMS Configuration online help.

The following remarks did not make the editorial deadline for the online help, therefore they are listed here:

- The status of all entry points, primarily doors and windows, must be monitored. For example, through electric contacts.
- A system with mobile access cards only is not intended for EN certification.
- The Multi User Manager application is not part of the certification.
- If the applications Mobile Access and or Multi User Manager are installed, the AMS no longer meets the EN 60839 requirements.

8.1.6 Windows system time change

If Windows time is changed manually, the AMS system should be closed and the Windows time should be also set on all clients before starting AMS again.

8.1.7 Backup file location

AMS Backup directory with all files are found in documents directory "<documents>\Backups\<timestamp>" of the operator who started the backup.

Note: If the SQL Server database is found on another computer, the database '*.bak' files are found on the remote SQL Server computer. In such case, both directories should be saved, and are required for the restore application.



8.2 Intrusion

8.2.1 Intrusion event limitation:

Receiving of events and alarms depends on the network and system availability. Events and alarms are not repeated if the Intrusion panel was offline at that time, therefore AMS will not receive them.

Max events per second over all on a system with the recommended specifications (see datasheet):

- SQL Server 2019 Express version: 70 events/sec (maximum 2 million events can be stored in the event database)
- SQL Server 2019 Standard version: 150 events/sec

Note: AMS can process maximum of 100 events/sec. overall from the Access Control System, such as, door open/close, access, audit trail and so on. If Intrusion integration is used, one point change can create 3 events (e.g. Point shorted, Area not ready to arm, Point state changed).

8.2.2 Intrusion cardholder synchronization limitation:

- In combination with intrusion, these default card definitions are supported:
 - HID 37 BIT -> Intrusion 37 BIT with a Facility/Site code not larger than 32767
 - HID 26 BIT- > Intrusion 26 BIT
 - EM 26 BIT- > Intrusion 26 BIT

#263421 It is possible, but damaging, to modify/delete cardholders directly on a panel. **Workaround**: All user management should be performed by the ACS, not by the panel.

#389827 Synchronization between AMS and B/G panels

- If an operator changes cardholder data in AMS, there may be a temporary discrepancy between the cardholder data displayed by the Swipe Ticker and the data in the AMS dialogs until AMS synchronizes with the B/G panel. The delay is typically a few minutes.
- If an operator reassigns a card from one person to another immediately, the synchronization between AMS and the B/G panel may fail due to deadlock.

Workaround: The operator assigns to the second person only cards that have been free for longer than one synchronization cycle (typically a few minutes). To be certain that no synchronization is pending, check the panel status in the **Configuration** > **Panels** > **Panel Administration** dialog for the status **synched** (green). It should not be **synch pending** (yellow).

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8.3 MapView and Services

8.3.1 Initial States

States initially displayed by the system immediately after installation are not necessarily correct. The reason for this behavior is that the system stores the states of the devices during operation, and on startup displays the states last seen. However, some device states might have changed between the last shutdown and the current installation of the AMS Software. An example of this behavior is where MAC and Twin MAC are initially both displayed with a slave symbol. Only after a MAC-switch are the correct master and slave symbols displayed.

Workaround: To refresh the states, coldstart the system (DMS, MAC, AMCs, Readers etc.) to force a MAC-switch.

#389803 Swipe Ticker - Picture takes a longer time to display

Under heavy server or network load, the cardholder pictures in the Swipe Ticker might not display immediately.

8.4 Dialog Manager

8.4.1 Guard tour and SimonsVoss readers

Readers from SimonsVoss are not supported for guard tours.

8.4.2 BiolPconfig Tool

The fingerprint reader scan may not work when multiple network segments are used on the computer.

8.5 Microsoft SQL Express

Microsoft SQL Express limitation:

SQL Express DB installed with AMS 5.0 and later supports up to 2 million events. The default retention time is 30 days. Old events are deleted if:

- DB is at 2.000.000 events.
- retention period has expired.

If more access events are expected, consider using a full version of Microsoft SQL.

Adjustments can be done in the json file - Folder: C:\Program Files (x86)\Bosch Sicherheitssysteme\Access Management System\Events API



File: appsettings.json

Warning

- Before editing json files, do a backup copy of this file.
- Be aware not to destroy the json format.

Configurable attributes:

DaysToKeep= 0-9.999 (Number of days. Default: 30 days) (0=unlimited). MaxDbEvents= 10.000-99.999.999 (Default: 2.000.000, this is the maximum for MSDN Database).

DeletionSize= 5.000-1.000.000 (Max number of elements to delete in one step advised value= 10000).

all values have to be entered without the dot "."

Example with default values:

```
"EventsApiOptions": {
    "DaysToKeep": 30,
    "ExpireFrequency": 60,
    "MaxDbEvents": 2000000,
    "DeletionSize": 10000,
    "DeletionTimeout": 300
```

},

8.6 Visitor Management

#282466 Visitor Management – Card reader not working if used by AMS and VisMgmt If a LECTUS enroll 5000 MD reader is in use by the AMS Dialog Manager it cannot be used by Visitor Management simultaneously.

Workaround: Stop the Dialog Manager before using enrollment in Visitor Management or use a different type of enrollment reader in the Dialog Manager.

#327038 Visitor Management – Same visitor not editable in AMS

If visitors are created with same last name, first name and birthday, the **Visitor** dialog in AMS will show the error message that the visitor already exists.

Workaround: Disable the unique key check in the registry key \HKLM\SOFTWARE\WOW6432Node\Micos\SPS\DEFAULT\PersData\PkUnique Set @value to 00

#356159 Access profiles in Visitor Management: duration of validity is not set

The default validation time slot configured for a visitor profile in the AMS is not provided to visitors coming from the Visitor Management system.

Workaround: Cardholders that are created by the Visitor Management system should also be maintained by the Visitor Management system.



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#381312 Visitor cards expire at end of the day regardless of the expiry time.

#390863 Unexpected token while opening port 5706

After running the setup files of BoschPeripheralDeviceAddon.exe and BoschVisitorManagementServer.exe when upgrading from AMS401 to AMS50 there is a error message while opening https://<VisMgmt server computer>:5706 Workaround: Delete the browser cache on the client PC after an update from a previous Visitor Management installation.

8.6.1 Visitor Management 5.0.1

#391881 After installing certificate of external email server, VisitorManagerServer Service needs to be restarted. Otherwise its not possible to use the secured connection to email server.

Workaround: After installing a certificate for the external email server, restart the service VisitorManagerServer.

#395279 PNG file format for picture not supported

The file format PNG for user photographs is not supported in Visitor Management. Use JPEG instead.



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#401908 No support for Divisions

Visitor Management (VM) does not support AMS Divisions ("Tenants"). Do not use the Visitor Management product together with an AMS system where **Divisions** have been configured.

#408837 Omnikey Reader not recognized when using Firefox browser

The issue occurs when a Peripheral Device (PD) certificate is missing from the internal Firefox certificate store.

Workaround:

- 1. Open the **Certificate Manager** tool from wWndows (on the machine where the PD tool has been installed).
- 2. Open Trusted Root Certification Authorities.
- 3. Select the PD certification named: BoschAcePeripheralDeviceAddonHardware CA
- 4. Right click and export this certificate as "DER encoded binary X.509 (.CER)".
- 5. Start Firefox and open Firefox settings.
- 6. Import the certificate into the internal Firefox certification store.
- 7. Restart Firefox.

#403324 Do not delete SDK user

The SDK User, which is created when installing Visitor Management, might appear on the dashboard. Do not delete this user, as this will impact the communication between Visitor Management and the AMS.

#408602 Language switch not immediately applied to pulldown menus

When switching the language of the web user interface, the language switch is not applied to items of pulldown menus. Fo example, in the settings menu.

Workaround: Select the desired language and reload the full page in the browser.

#410593 Expected departure is not synchronized to Visitor Management

Visitor Management overrides the "authorized until" date for credential holders when the user edits any detail of a visit.



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8.7 Milestone Plugin

#316324 & 281130 CFS – Milestone plugin problem

If the XProtect plugin of AMS is used in parallel with plugins of other distributors, the initialization of the AMS plugin can fail.

8.8 SimonsVoss

#206393 Sequence monitoring mode 1 does not function correctly when a SimonsVoss lock goes offline

In Access Sequence Monitoring mode 1, monitoring should be deactivated when a lock goes offline. This deactivation is currently not functioning for SimonsVoss Smartintego devices.

#202508 While deleting a cardholder assigned to a SimonsVoss lock, the error message has limited information

While deleting a SimonsVoss lock, the error message states only that it is assigned to a SmartIntego whitelist authorization, but not which cardholders are affected.

#206241 SimonsVoss deletion of a whitelist generates no confirmation

If a whitelist is deleted from a SimonsVoss device, the user receives no confirmation that the command has executed successfully.

#206988 SimonsVoss delete construction Whitelist

If the construction whitelist was used before being integrated into AMS, the MAC may not be able to delete the construction whitelist.

Workaround: Delete the construction whitelist manually.

#235565 SimonsVoss commands are not grayed out, depending on specific SimonsVoss device states

All SimonsVoss commands are available if the device is an SimonsVoss reader type.

8.9 OTIS

#356015 OTIS: ConfigBrowser: You can create only 6 DES devices Configuration is limited to 6 DES and 2 DER devices. **Building Technologies**



8.10 OSS-SO Configuration

#390177 OSSO – Automatic refresh of the Authorization report dialog does not always work

Workaround: Press "F5" to refresh the page manually.

#381885: OSS-SO – Incoming state changes are not displayed while the stateAPI is offline

States are not correctly displayed if statesAPI restarts. **Workaround**: Restart the OSS-SO service or wait for next update of state.

#389017 OSS-SO - License unauthorized after network disconnect and restart

This error might also indicate a network problem. Please check the connection to the network and restart your browser.