



Bosch BIS Integration Module Settings Guide

ACFA PSIM 1.1

Last update 09/15/2023

Table of Contents

1	Introduction into Bosch BIS Module Settings Guide	3
1.1	Purpose of the document	3
1.2	General information about the Bosch BIS integration module	3
2	Supported hardware and licensing of the Bosch BIS integration module.....	4
3	Configuration of the Bosch BIS integration module	5
3.1	Preconfiguration of the Bosch BIS software.....	5
3.2	Configuring the Bosch BIS connection to ACFA PSIM	6
3.3	Configuring the Bosch BIS reader	7
3.4	Configuring the Bosch BIS person classes	8
4	Working with the Bosch BIS integration module	11
4.1	General information about working with the Bosch BIS module.....	11
4.2	Managing the Bosch BIS head object.....	11
4.3	Managing the Bosch BIS DMS Server	11
4.4	Managing the Bosch BIS MAC (master access controller)	12
4.5	Managing the Bosch BIS AMC (access controller).....	13
4.6	Managing the Bosch BIS AMC IO module	14
4.7	Managing the Bosch BIS door.....	14
4.8	Managing the Bosch BIS reader.....	15

1 Introduction into Bosch BIS Module Settings Guide

On this page:

- [Purpose of the document](#)
- [General information about the Bosch BIS integration module](#)

1.1 Purpose of the document

This *Bosch BIS Module Settings Guide* is a reference manual designed for *Bosch BIS* Module configuration technicians.

This Guide presents the following materials:

1. general information about the *Bosch BIS* integration module;
2. configuration of the *Bosch BIS* integration module;
3. working with the *Bosch BIS* integration module.

1.2 General information about the Bosch BIS integration module

The *Bosch BIS* module is a component of an ACS built on the *ACFA PSIM*. It is designed to ensure the interaction of the *Bosch BIS* ACS with the *ACFA PSIM* software (monitoring, configuration, control). The OPS part of *Bosch BIS* is fully supported through the **OPC Wrapper** module (see [OPC Wrapper Settings Guide](#)).

Note

Detailed information about the *Bosch BIS* ACS is presented in the official documentation for this system (manufactured by Robert Bosch GmbH).

2 Supported hardware and licensing of the Bosch BIS integration module

Manufacturer	Bosch Sicherheitssysteme GmbH https://www.boschsecurity.com
Integration type	SOFT-SOFT

Supported equipment

Equipment	Function
Bosch BIS	Access control software

Licensing

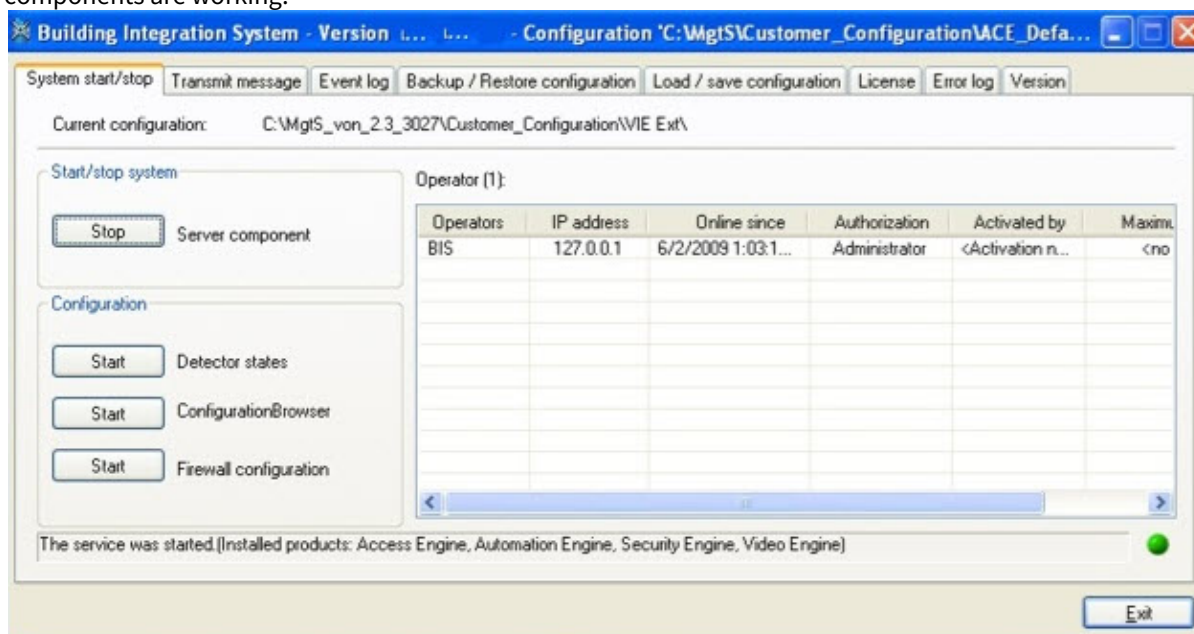
Per 1 connection to the BIS server.

3 Configuration of the Bosch BIS integration module

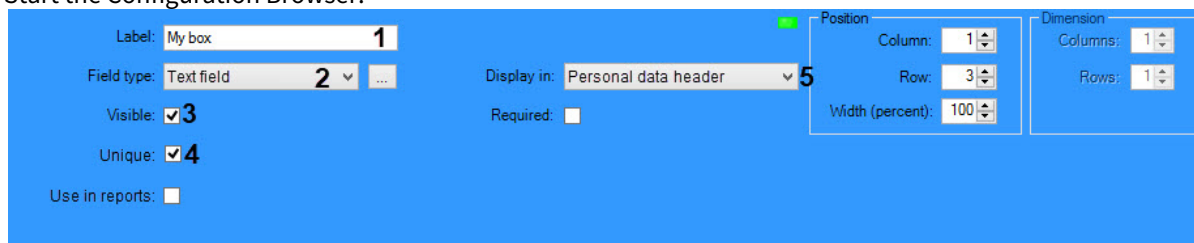
3.1 Preconfiguration of the Bosch BIS software

To preconfigure the **Bosch BIS** system, do the following:

1. Start the system server and make sure that the installed **Access Engine** and **Automation Engine** components are working.



2. Start the Configuration Browser.



3. In the **Infrastructure** section, go to the **ACE Custom fields** subsection, and then go to the **Create field** tab to create a new custom field.
This field is required for copying user data from *Axxon PSIM* to the **BIS** software. The *Axxon PSIM* can also receive (import) user data from the **BIS** system.
4. In the **Label** field (1), enter an arbitrary name that is unique in both *Axxon PSIM* and the **Bosch BIS** system.
5. From the **Field type** drop-down list (2) select **Text field**.
6. Set the **Visible** checkbox (3) to make the field visible.
7. Set the **Unique** checkbox (4) to enable the field check for uniqueness.
8. From the **Display in** drop-down list (5), select **Personal data header**.
9. Leave the rest of the fields as is.
10. Click the **Apply** button to save settings.

Note

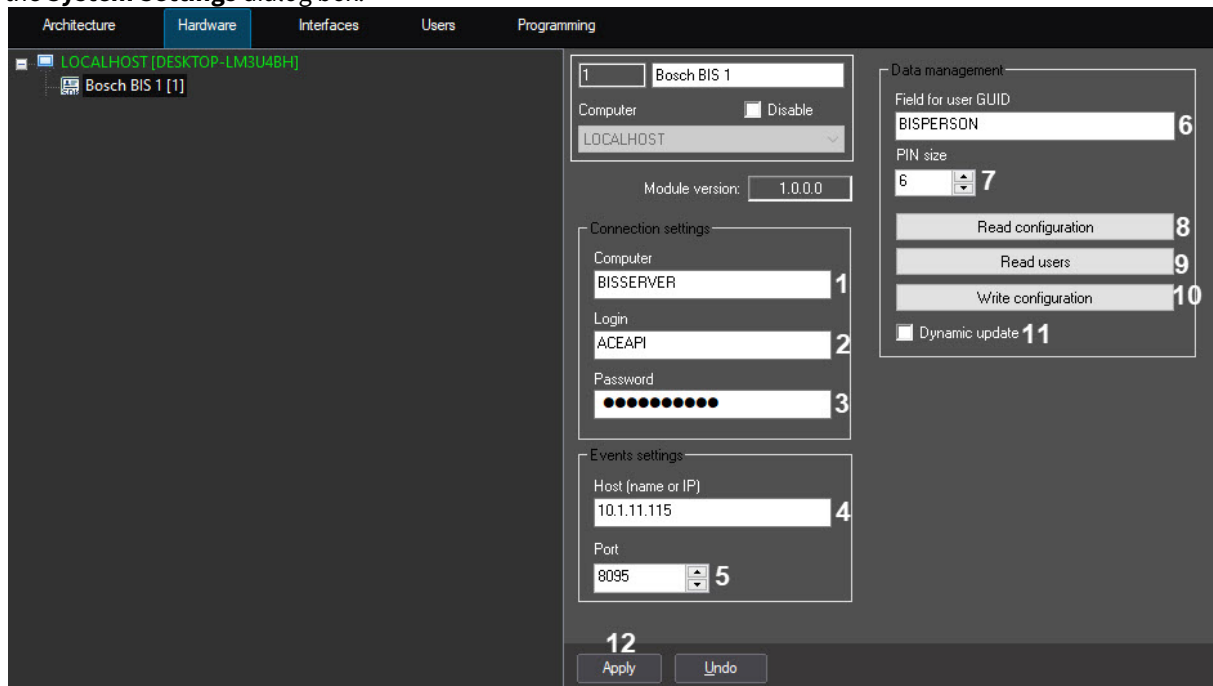
The operation of the **Bosch BIS** version 4.8 was tested.

The preconfiguration of the **Bosch BIS** system is now complete.

3.2 Configuring the Bosch BIS connection to ACFA PSIM

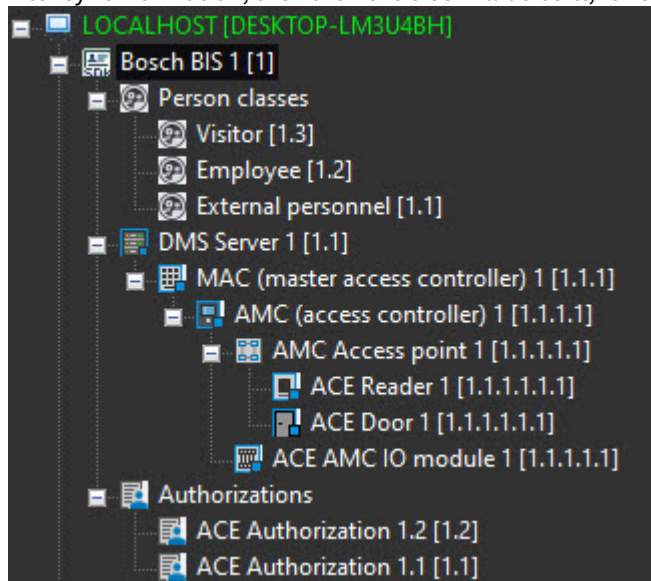
The *Bosch BIS* connection to *ACFA PSIM* is configured as follows:

1. Go to the **Bosch BIS** object which is created on the basis of the **Computer** object on the **Hardware** tab of the **System Settings** dialog box.



2. In the **Computer** field (1), specify the network name of the computer with the **BIS** server.
3. In the **Login** field (2), enter the login for authorization on the **BIS** server. It is set by the **BIS** system administrator.
4. In the **Password** field (3), enter the password for authorization on the **BIS** server. It is set by the **BIS** system administrator.
5. In the **Host (name or IP)** field (4), explicitly specify the IP address of the computer with *Axxon PSIM* to which the **BIS** server will send events.
6. In the **Port** field (5), specify a local free port to which the **BIS** server will send events.
7. In the **Field for user GUID** field (6), enter a unique field name preconfigured in the **BIS** software, see [Preconfiguration of the Bosch BIS software](#).
8. In the **PIN size** field (7), select the number of characters in the PIN code in the range from 3 to 6, the default value is 6.

9. Click the **Read configuration** button (8) to synchronize the hardware tree with the **BIS** software. After synchronization, the hardware tree will be built, for example:



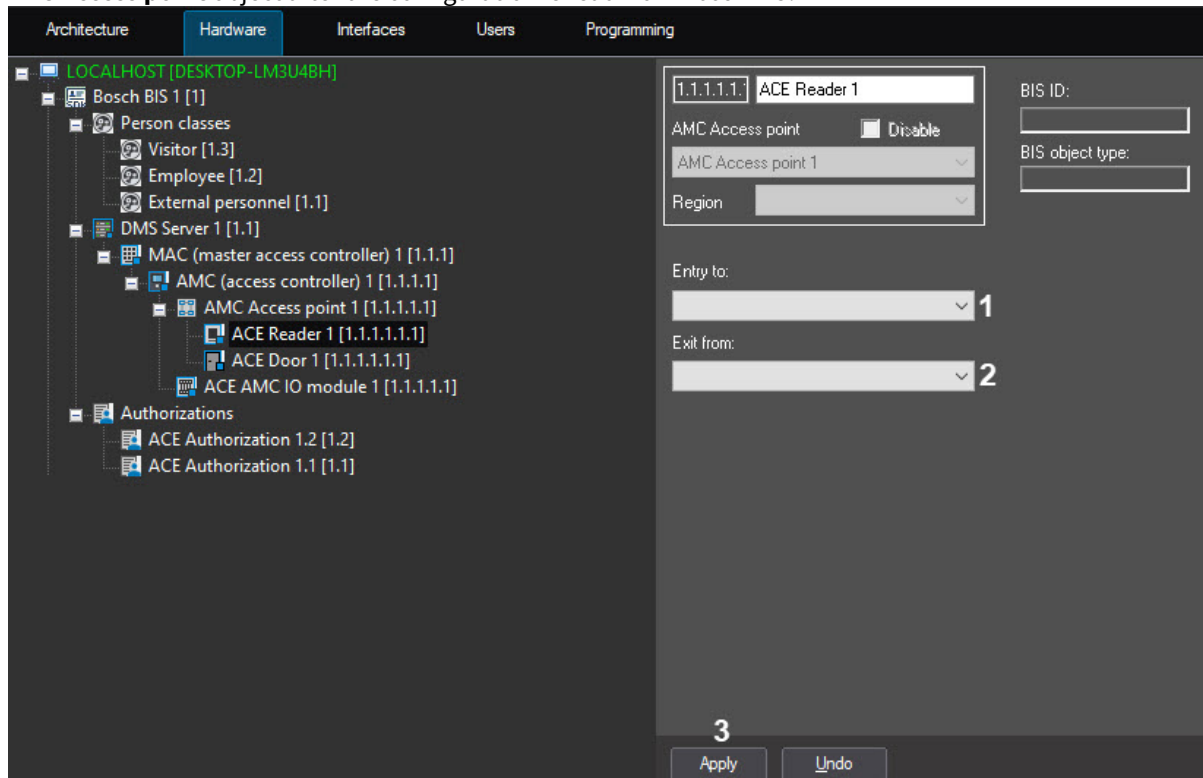
10. Click the **Read users** button (9) to import users from the **BIS** software, if any.
11. Click the **Write configuration** button (10) to copy users from *Axxon PSIM* to the **BIS** software.
12. Set the **Dynamic update** checkbox (11) to enable automatic update of user data in the **BIS** software when users are created, deleted and their parameters are changed.
13. Click the **Apply** button (12) to save settings.

The *Bosch BIS* connection to *ACFA PSIM* is now configured.

3.3 Configuring the Bosch BIS reader

The *Bosch BIS* reader is configured as follows:

1. Go to the configuration panel of the **ACE Reader** object, which is created automatically on the basis of the **AMC Access point** object after the configuration is read from *Bosch BIS*.



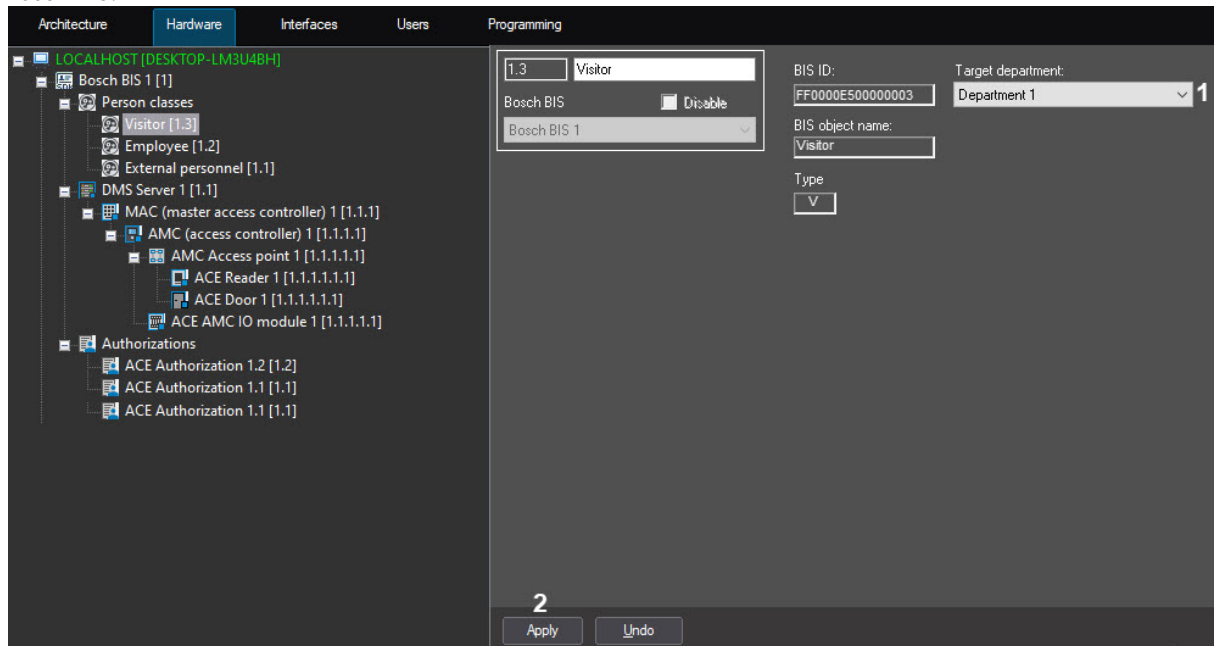
2. From the **Entry to** (1) and **Exit from** (2) drop-down lists, select the sections located on the the entrance and exit sides of this reader, respectively.
3. Click the **Apply** button (3) to save settings.

The *Bosch BIS* reader is now configured.

3.4 Configuring the Bosch BIS person classes

The *Bosch BIS* person class is configured as follows:

1. Go to the person class settings panel, which is created automatically after the configuration is read from *Bosch BIS*.



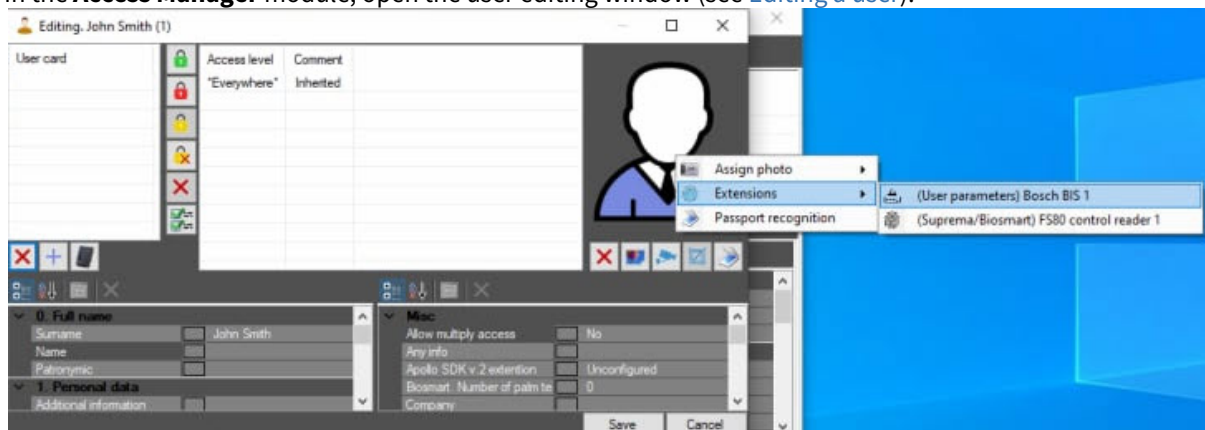
2. From the **Target department** drop-down list (1), select the required department for this class of persons.
3. Click the **Apply** button (2) to save settings.

The *Bosch BIS* person class is now configured.

To work with the *Bosch BIS* integration module, the **Access Manager** software module should be created and configured (see [Access Manager Module Settings and Operation Guide](#)).

Each user in the system should be assigned to a certain class of persons. To do this:

1. In the **Access Manager** interface object, assign *Bosch BIS* as a control reader (for details, see [Configuring control readers in the Access Manager](#)).
2. In the **Access Manager** module, open the user editing window (see [Editing a user](#)).



3. Right-click on the user's photo.
4. In the **Extensions** menu, select **(User parameters) Bosch BIS**. This will open the **Bosch BIS: User parameters** window.

- In the window that opens, select the class of persons to which the user belongs from the list (1).

The screenshot shows a dialog box titled "Bosch BIS: User parameters". It contains a list box labeled "Person class:" with three items: "Not set", "[FF0000E500000003] Visitor", and "[FF0000E500000001] Employee". The third item, "[FF0000E500000002] External personnel", is selected and highlighted in blue. A large number "1" is placed over the list box. Below the list box are several fields and buttons: a "PIN:" text input field with a "Set" button to its right; a "Valid until" date picker showing "11/ 7/2022" with an "Unlock" button to its right; a "Permanent" checkbox; and "OK" and "Cancel" buttons at the bottom. Numbers 2 through 7 are placed over these respective elements to indicate their function in the subsequent steps.

- In the **PIN** field (2), enter the user PIN code.
- To save the PIN code, click the **Set** button (3).
- In the **Valid until** field (4), specify the date until which the PIN code is valid, or set the **Permanent** checkbox (5) if the card isn't limited in time.
- Click the **Unlock** button (6) to unlock the user.
- Click the **OK** button (7) to save the changes and return to the user editing window.
- In the user editing window, click the **Save** button to save the settings.

The user is now assigned to the person class.

4 Working with the Bosch BIS integration module

4.1 General information about working with the Bosch BIS module

The following interface objects are used for *Bosch BIS* integration module operation:

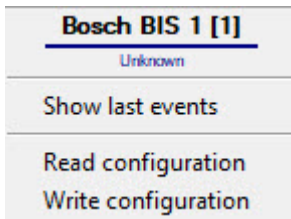
1. **Map.**
2. **Event viewer.**

For a detailed description of configuring these interface objects, refer to the *Axxon PSIM Administrator's Guide*.

For a detailed description of using these interface objects, refer to the *Axxon PSIM Operator's Guide*.

4.2 Managing the Bosch BIS head object




The *Bosch BIS* head object is managed in the **Map** interactive window using the **Bosch BIS** object function menu.



The *Bosch BIS* head object function menu commands description is given in the table.

Menu command	Function performed
Read configuration	Synchronize the hardware tree with the BIS system
Write configuration	Copy users from <i>Axxon PSIM</i> to the BIS system

The *Bosch BIS* head object can have the following states:

	Unknown
	Connected
	Disconnected

4.3 Managing the Bosch BIS DMS Server

The *Bosch BIS* DMS Server is not managed in the **Map** interactive window.

The *Bosch BIS* DMS Server can have the following states:

	Unknown
	No connection
	Connection OK

4.4 Managing the Bosch BIS MAC (master access controller)





The *Bosch BIS* MAC (master access controller) is managed in the **Map** interactive window using the **MAC (master access controller)** object function menu.

MAC (master access controller) 1 [1.1.1]
Show last events
Cold start
Warm start

The *Bosch BIS* MAC (master access controller) function menu commands description is given in the table:

Menu command	Function performed
Cold start	Perform a cold start
Warm start	Perform a warm start

The *Bosch BIS* MAC (master access controller) can have the following states:

	Unknown
	Connection OK
	No connection
	Power failure

4.5 Managing the Bosch BIS AMC (access controller)









The *Bosch BIS* AMC (access controller) is managed in the **Map** interactive window using the **AMC (access controller)** object function menu.

AMC (access controller) 1 [1.1.1.1]
Show last events
Cold start
Warm start

The *Bosch BIS* AMC (access controller) function menu commands description is given in the table:

Menu command	Function performed
Cold start	Perform a cold start
Warm start	Perform a warm start








The *Bosch BIS* AMC (access controller) can have the following states:

	Unknown
	Connection OK
	No connection
	Power failure
	DC power supply failure
	Battery power supply failure
	CMOS battery low
	Sabotage

4.6 Managing the Bosch BIS AMC IO module

The *Bosch BIS* AMC IO module is not managed in the **Map** interactive window.

The *Bosch BIS* AMC IO module can have the following states:

	Unknown
	Connection OK
	No connection
	Power failure
	DC power supply failure
	Battery power supply failure
	Sabotage

4.7 Managing the Bosch BIS door

The *Bosch BIS* door is managed in the **Map** interactive window using the **ACE Door** object function menu.









ACE Door 1 [1.1.1.1.1]
Show last events
Grant access (out)
Open permanently
Block
Grant access (in)
Open

The *Bosch BIS* door function menu commands description is given in the table:

Menu command	Function performed
Grant access (out)	Allow to exit

Menu command	Function performed
Open permanently	Keep the door open
Block	Block the door
Grant access (in)	Allow to enter
Open	Open the door/Normal mode

The *Bosch BIS* door can have the following states:

	Unknown
	Normal
	Blocked
	Open
	Sabotage
	Unauthorized opening
	Open for too long
	No connection

4.8 Managing the Bosch BIS reader







The *Bosch BIS* reader is managed in the **Map** interactive window using the **ACE Reader** object function menu.

ACE Reader 1 [1.1.1.1.1.1]
Show last events
Unlock
Block
Grant access

The *Bosch BIS* reader function menu commands description is given in the table:

Menu command	Function performed
Unlock	Disable block
Block	Enable block
Grant access	Allow to enter

The *Bosch BIS* reader can have the following states:

	Unknown
	Connection OK
	No connection
	Power failure
	Sabotage
	Blocked