Bosch BIS Integration Module Settings Guide

ACFA PSIM 1.1

Last update 11/16/2022

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1 Introduction into Bosch BIS Module Settings Guide

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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	Robert Bosch GmbH Vashutinskoe highway, 24 141400 Khimki, Moscow region RUSSIA Phone: +7 495 5609075 Phone: +7 916 3704945 Website: www.bosch.ru Email: ivan.sergeev@ru.bosch.com
Integration type	SOFT-SOFT

Supported equipment

Equipment	Function
Bosch BIS	Access control software

Licensing

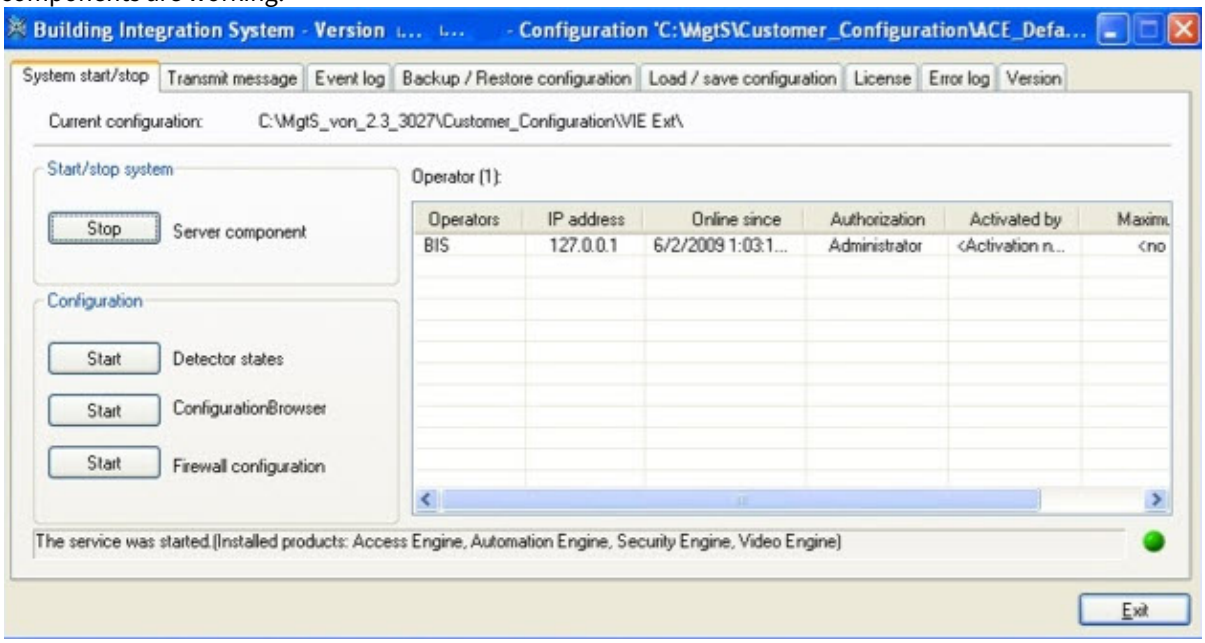
Per 1 connection to the BIS server.

3 Configuration of the Bosch BIS integration module

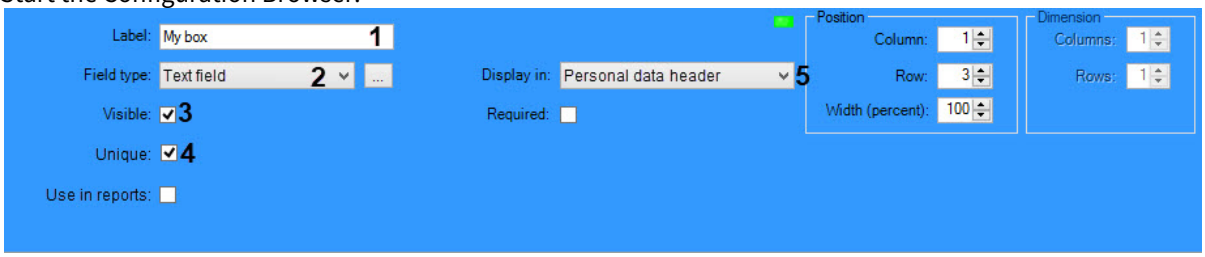
3.1 Preconfiguration of the Bosch BIS software

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 (**6**) to save settings.

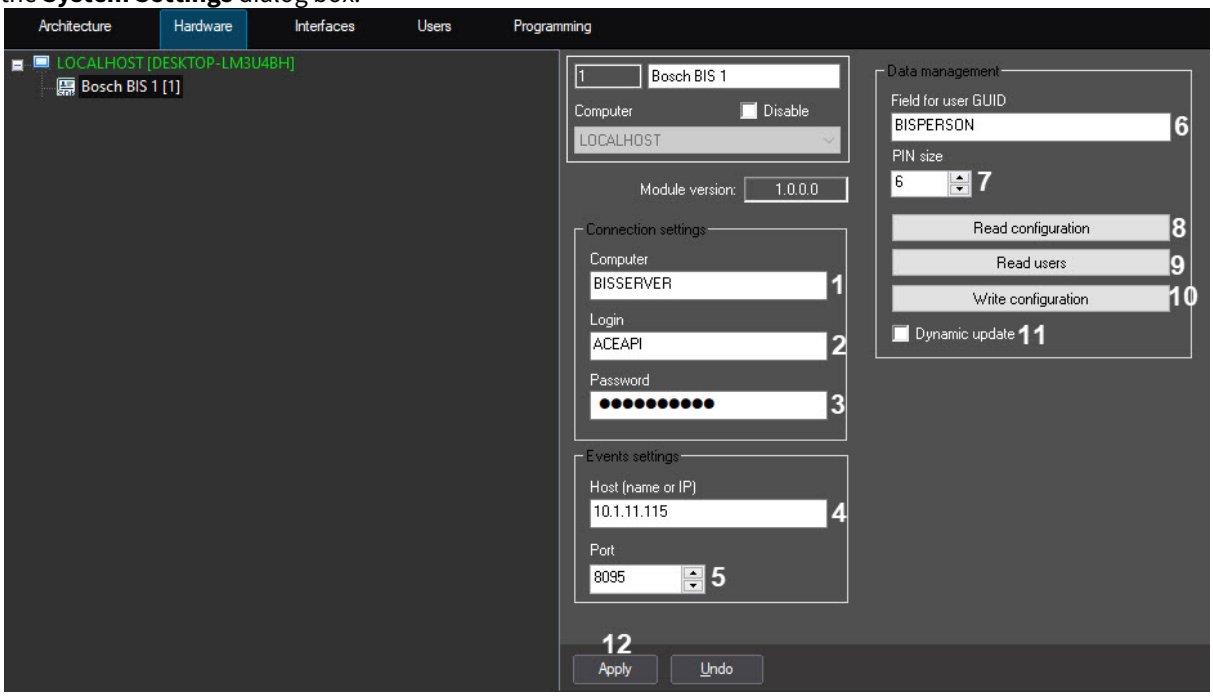
> **Note**
>
> The operation of the **Bosch BIS** version 4.8 was tested.

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

3.2 Configuring the Bosch BIS connection to ACFA PSIM

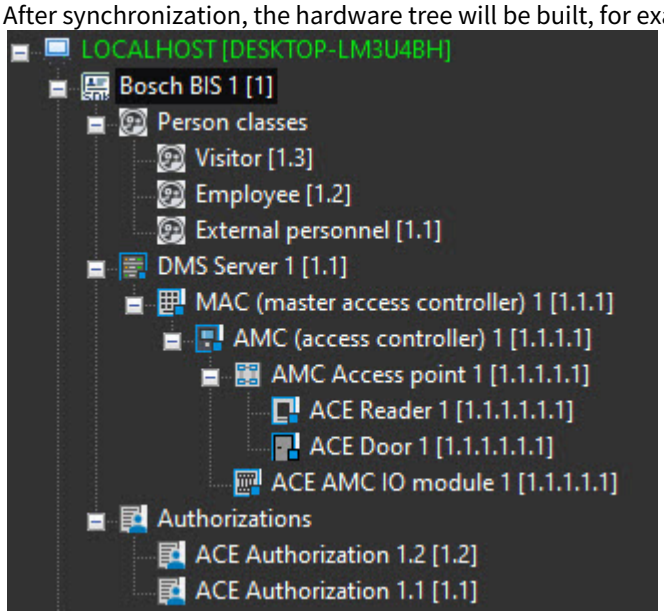
The *Bosch BIS* connection to *ACFA PSIM* is configured as follows:

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:



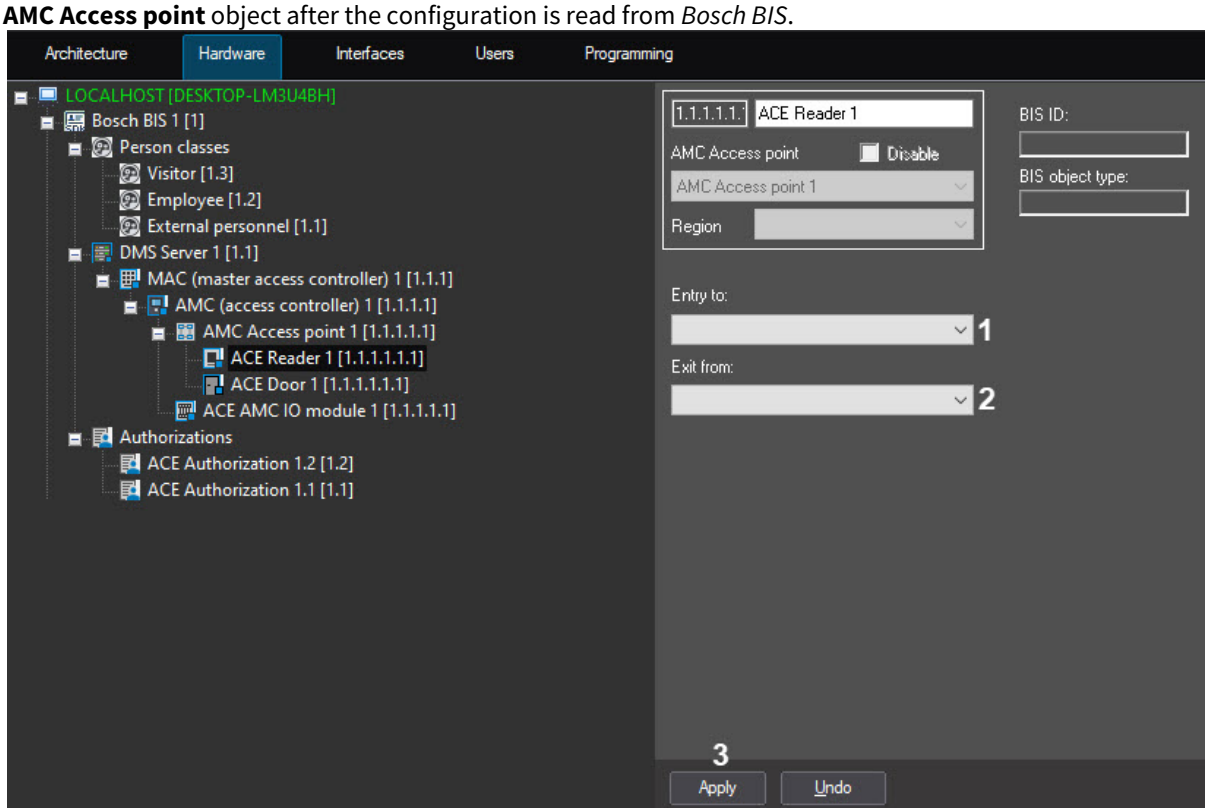
10. Click the **Read users** button (**9**) to import users from the **BIS** software, if any.
11. Click the **Write configuration** button (**10**) to copy users from *Axxon PSIM* to the **BIS** software.
12. Set the **Dynamic update** checkbox (**11**) to enable automatic update of user data in the **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*.



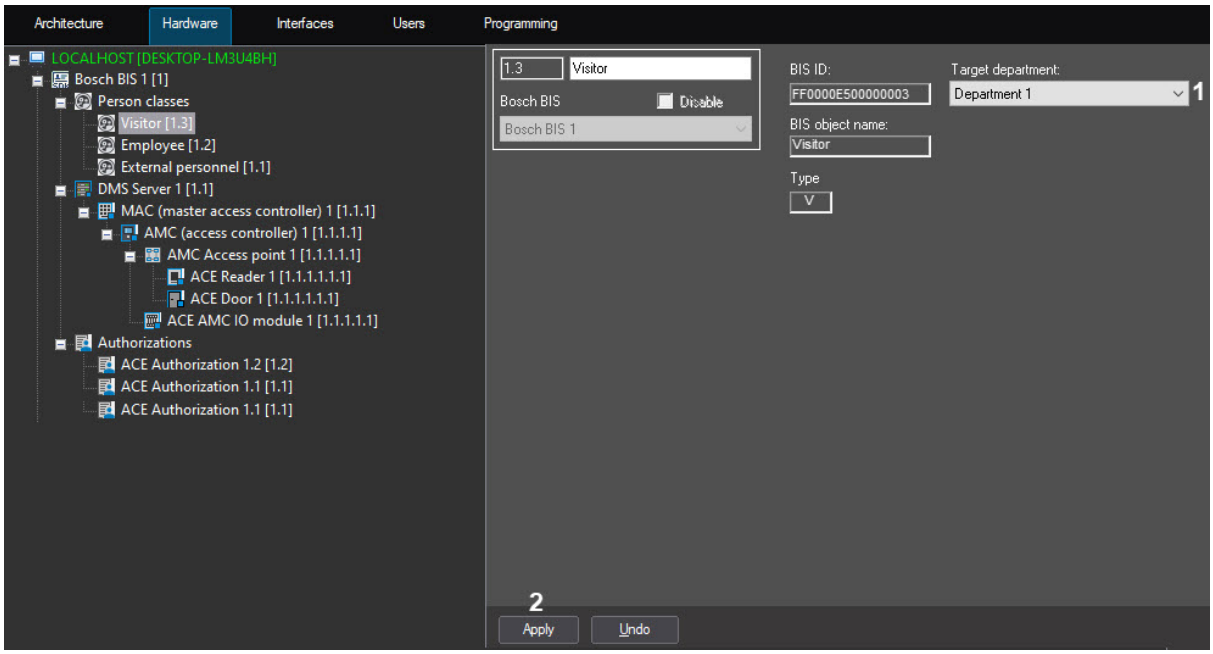
2. From the **Entry to** (**1**) and **Exit from** (**2**) drop-down lists, select the sections located on the the entrance and exit sides of this reader, respectively.
3. Click the **Apply** button (**3**) to save settings.

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*.



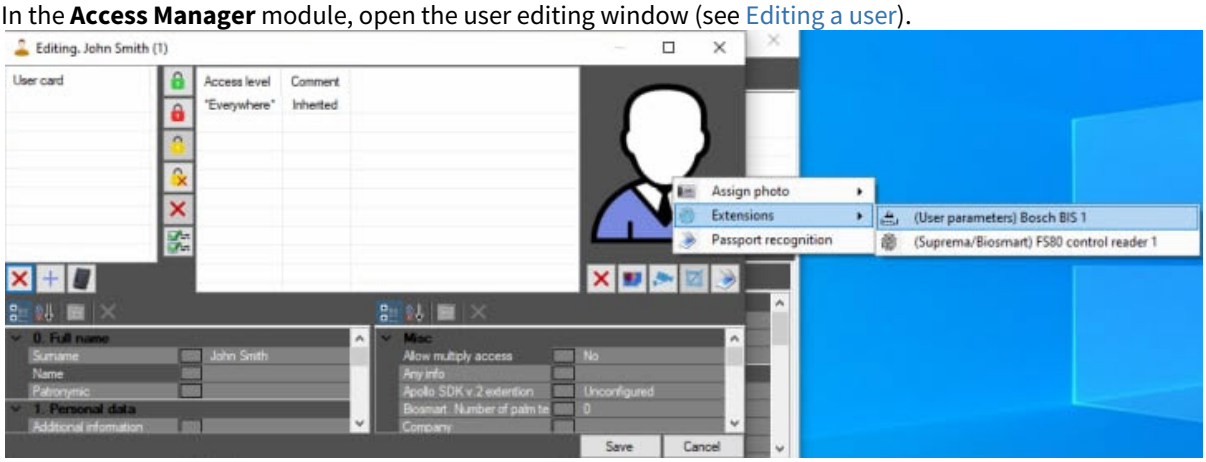
2. From the **Target department** drop-down list (**1**), select the required department for this class of persons.
3. Click the **Apply** button (**2**) to save settings.

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).

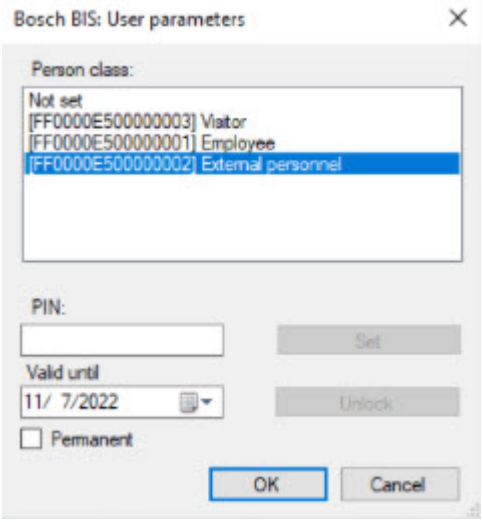
Each user in the system should be assigned to a certain class of persons. To do this:

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.

5. In the window that opens, select the class of persons to which the user belongs from the list.



6. Click the **OK** button to save the changes and return to the user editing window.
7. 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:

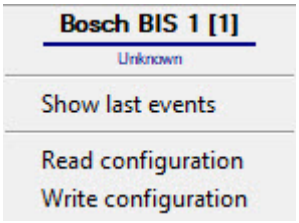
1. **Map**.
2. **Event viewer**.

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 *Axxon PSIM* 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

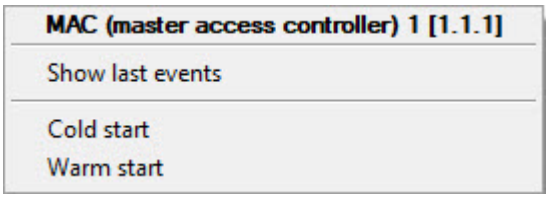
The *Bosch BIS* DMS Server is not managed in the **Map** interactive window.

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.



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

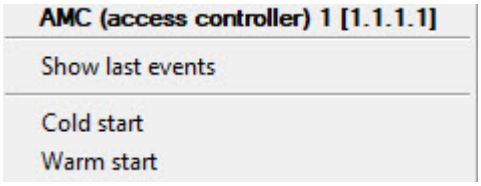
Menu command	Function performed
Cold start	Perform a cold start
Warm start	Perform a warm start

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.



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

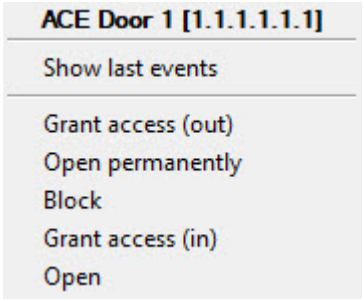
The *Bosch BIS* AMC IO module is not managed in the **Map** interactive window.

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.



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

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

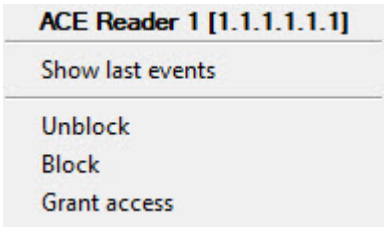
Menu command	Function performed
Open permanently	Keep the door open
Block	Block the door
Grant access (in)	Allow to enter
Open	Open the door/Normal mode

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.



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

Menu command	Function performed
Unblock	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