



Paxton Integration Module Setup and User Guide

ACFA PSIM 1.1

Last update 05/06/2024

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1 List of terms used in Paxton Integration Module Setup and User Guide

The access control system (*ACS*) – the hardware and software system performing the access control functions.

Axxon PSIM server – a computer with the *Axxon PSIM* Server configuration installed.

Controller – a device designed to control personnel entry/exit to limited-access areas, for reading and decoding the access card code, automatic badge registration in the ACS, and performance monitoring.

2 Introduction into Paxton Integration Module Setup and User Guide

On the page:

- [Purpose of the document](#)
- [General information about the Paxton ACS module](#)

2.1 Purpose of the document

This *Paxton Integration Module Setup and User Guide* is a reference and information tool, designed for the installation and operation of the *Paxton ACS* module specialists. This module is included in the access control system (ACS) on the *ACFA PSIM* basis.

This manual includes the following topics:

1. General information about the *Paxton ACS* module.
2. *Paxton ACS* module.
3. Operating the *Paxton ACS* module.

2.2 General information about the Paxton ACS module

The *Paxton* module is an *ACFA PSIM* system ACS component, and is designed to perform the following functions:

1. Configure the *Paxton ACS* (made by Paxton Access Ltd.).
2. Ensure interactivity between the *Paxton ACS* and the *ACFA PSIM* system (monitoring, control).

Note:


Detailed information on the *Paxton ACS* is available in the official system reference documentation.

Attention!

The *PaxtonNet* software of version 4.21 installed on the Server is required for correct working of the *Paxton ACS* integration module.

Before installing the *Paxton ACS* the following steps should be carried out:

1. Install the *Paxton ACS* hardware onto the protected territory (see the *Paxton ACS* reference documentation).
2. Install the Paxton software on the Server (is located in the <Axxon PSIM installation directory>\Modules\Paxton\PaxtonRedistOEM.msi).
3. Connect the *Paxton ACS* hardware to the Server.
4. Install *Net2* on the Server (available on the official website of the manufacturer of *Paxton ACS*).
5. Configure the COM-port connection of *Paxton ACS* to the *Net2* Server (see the reference documentation for the configuration utility of the Net Server).

 **Note:**

When configuring the connection it is recommended that the connection port for the *Paxton ACS* be set manually.

3 Supported hardware and licensing of the Paxton integration module

Manufacturer	Paxton House Home Farm Road Brighton BN 1 9 HU United Kingdom support@paxton.co.uk Skype: paxton.support
Integration type	SOFT-SOFT

Supported equipment

Equipment	Function	Features
Net2 nano	Access controller	Cards: 10,000 Time zones: 64 Access levels: 250 Events: 3,584 Readers: 2
Net2 plus	Access controller	Cards: 50000 Time zones: 64 Access levels: 250 Events: 2,728 Readers: 2
Net2 classic	Access controller	Cards: 10,000 Time zones: 64 Access levels: 250 Events: 2,000 Readers: 2

Protection

For 1 controller.

4 Configuring the Paxton ACS module

4.1 Installation procedure for the Paxton ACS module

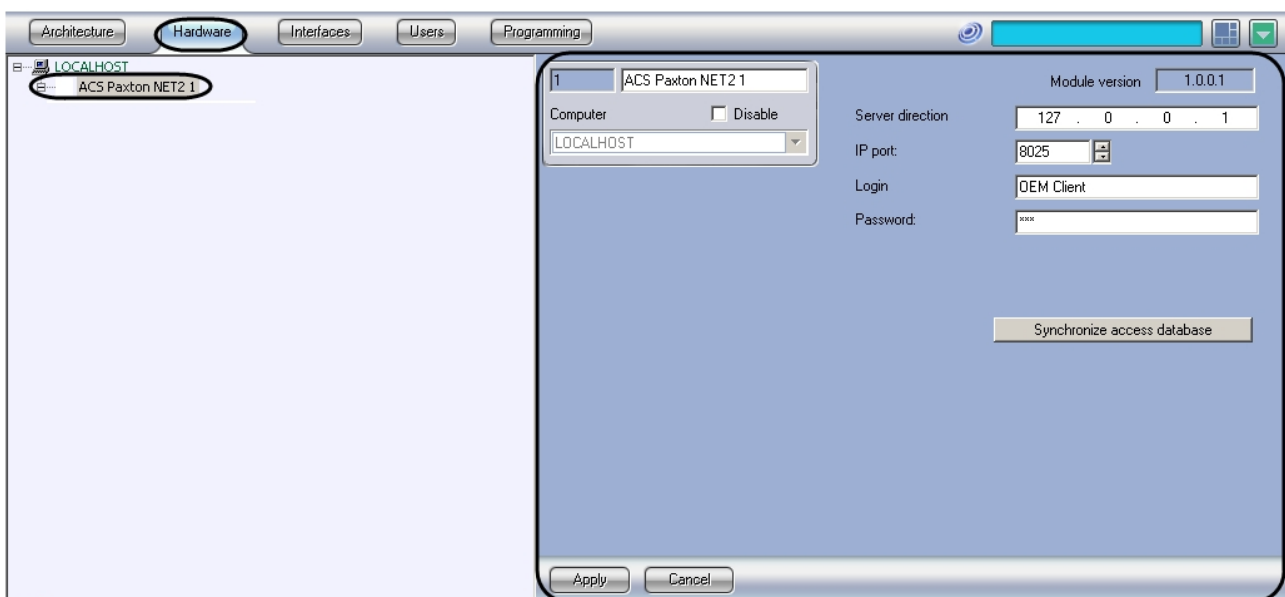
Install the *Paxton ACS* in the following sequence:

1. [Configuring the connection of the Net2 Server to the Axxon PSIM Server.](#)
2. [Configuring the Paxton controller.](#)
3. [Configuring the Paxton readers.](#)
4. [Synchronizing the configurations of the Axxon PSIM Server and the Net2 Server.](#)

4.2 Configuring the connection of the Net2 Server to the Axxon PSIM Server

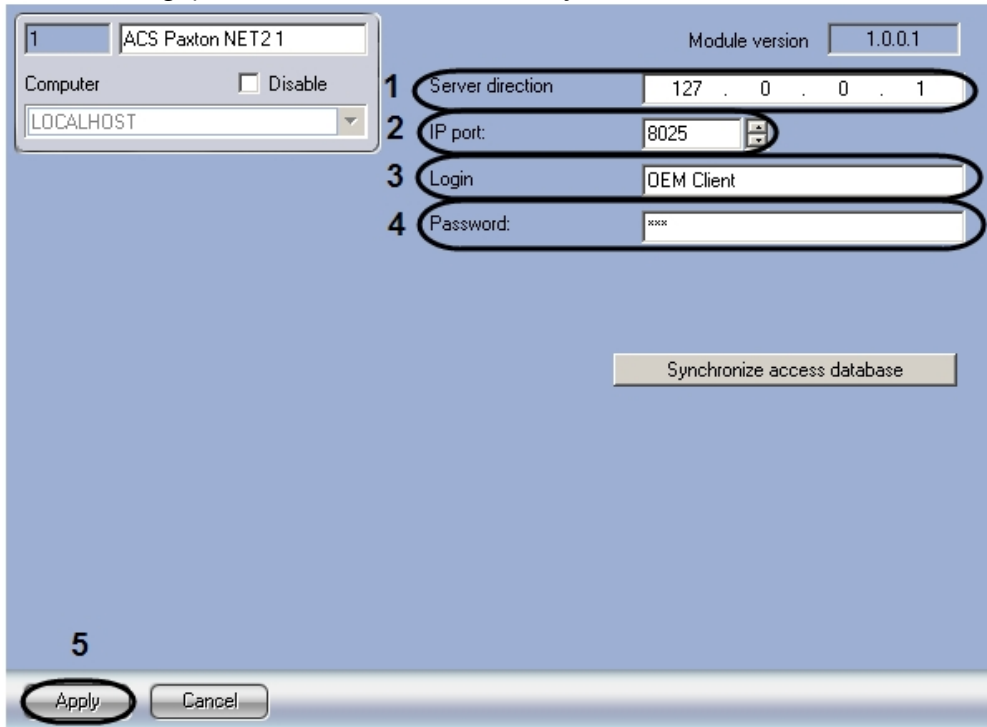
ACFA PSIM works with the *Paxton ACS* hardware via *Net2*, therefore the connection of the *Net2* Server to the *Axxon PSIM* Server must be configured.

In *ACFA PSIM* configuring the connection of the *Net2* Server to the *Axxon PSIM* Server is done on the **ACS Paxton NET2** settings panel, on the **Computer** panel in the **Hardware** tab of the **System settings** dialog box..



To configure the *Paxton ACS* controller follow these steps:

1. Go to the settings panel of the **ACS Paxton NET2** object.



Note.
The **Module version** field should display the module version.

2. In the **Server direction** field enter the IP-address of the computer running the *Net2* Server, which is connected to the *Paxton ACS* hardware (1).

Note.
If the *Net2* server is running on the same computer as the *Axxon PSIM Server*, then 127.0.0.1 must be entered as the address.

3. In the **IP port** field, use the **up and down** buttons to set the connection port for the *Net2* Server (2).

Note.
The default IP port is 8025.

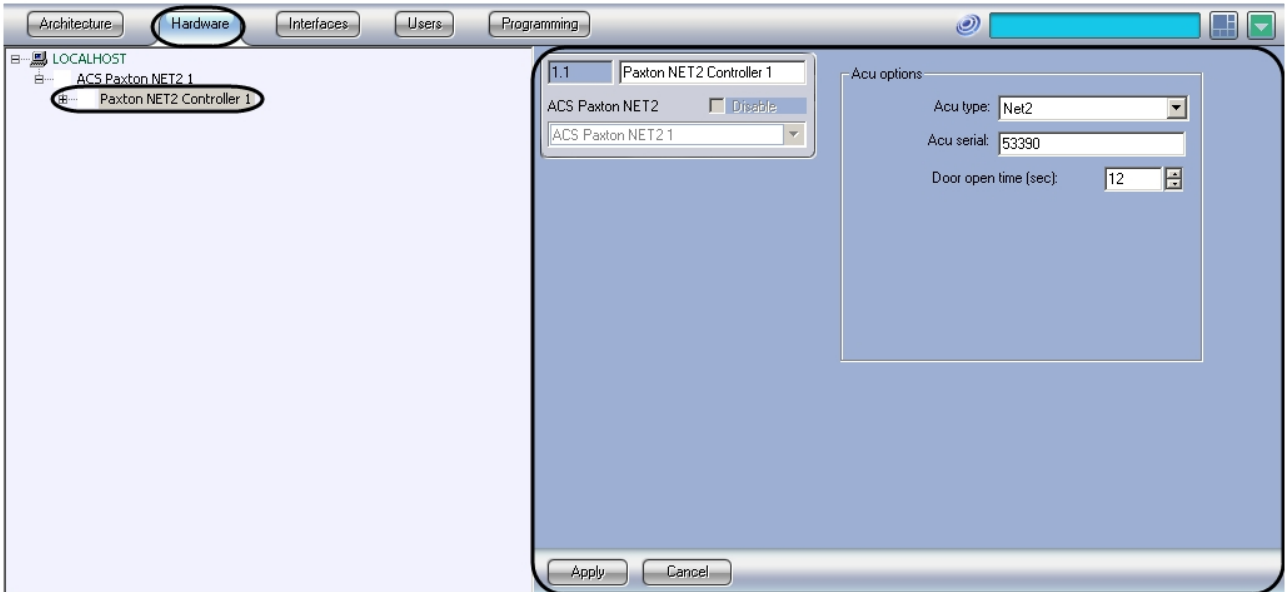
4. In the **Login** field specify the name of the *Net2* Server (3).

Note.
The list of *Net2* servers can be changed using the *Net2Access Control* utility. For details, see the reference documentation for this utility.

5. In the **Password** field specify the password for the *Net2* Server (4).
6. Click the **Apply** button (5).

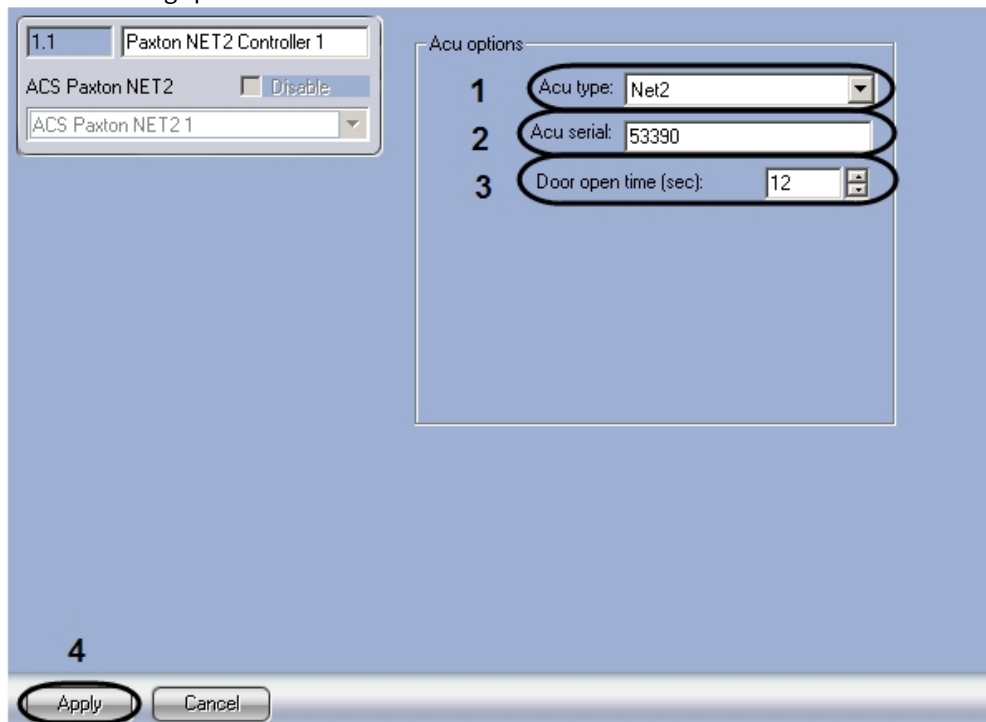
4.3 Configuring the Paxton controller

In the *ACFA PSIM* system, configure the *Paxton* controller connection on the **Paxton NET2 controller** settings panel which is on the **Hardware** tab of the **System settings** dialog box.



To configure the *Paxton* controller, follow these steps:

1. Go to the settings panel of the **Paxton NET2 controller**.



2. From the **Acu type** drop-down list, select the type of *Paxton* controller (1).
3. In the **Acu serial** field enter serial number of the *Paxton* controller (2).
4. In the **Door open time** field, using the **up and down** buttons, enter the time in seconds during which the door will remain open after access (3).

5. Click the **Apply** button (4).
6. Restart *Axxon PSIM* to establish the connection with the controller.

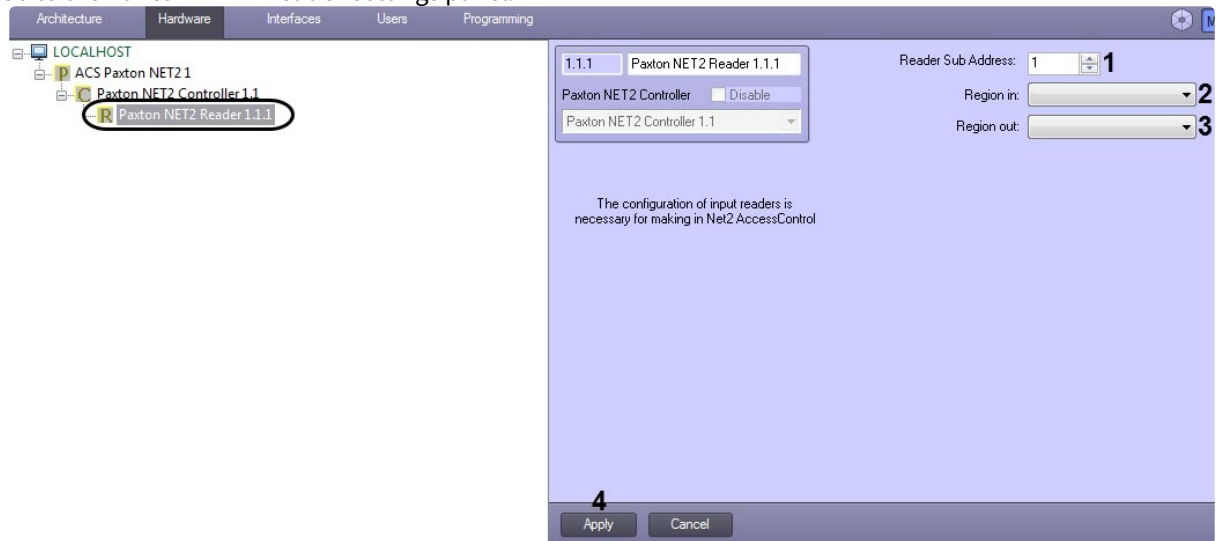
Configuration of the *Paxton* controller is complete.

4.3.1 Configuring the Paxton readers

In the *ACFA PSIM* system, configuring the *Paxton* reader on the **Paxton NET2 Reader** settings panel is done on the **Paxton NET2 Controller** settings panel, on the **Hardware** tab of the **System settings** dialog box.

To configure the *Paxton* reader, follow these steps:

1. Go to the **Paxton NET2 Reader** settings panel.



2. In the **Reader Sub Address** field using the **up and down** buttons, enter the hardware address of the reader connection (1).
3. From the **Region in:** drop-down list, select the **Region** corresponding to the reader output side (2).
4. From the **Region out:** drop-down list, select the **Region** corresponding to the reader output side (3).
5. Click the **Apply** button (5).

Configurations of the *Paxton* readers are complete.

4.4 Configuring the Paxton IO Board

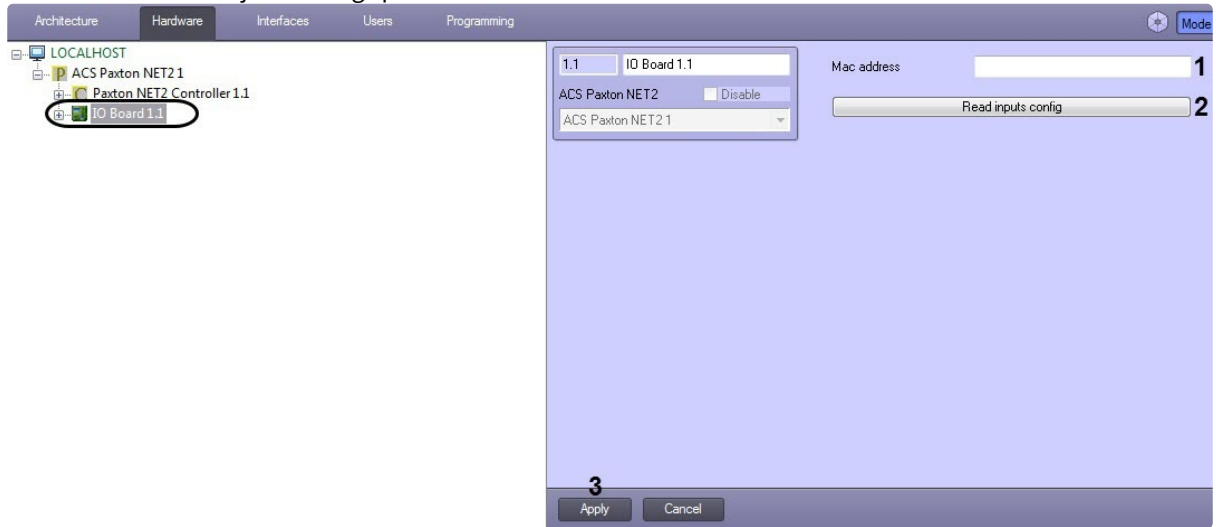
Paxton IO Board is configured in *Axxon PSIM* on the **IO Board** object settings panel. The object is created under the **ACS Paxton NET2** object on the **Hardware** tab of the **System settings** dialog box.

Note.

Configuration of the device is performed in the Net2 manufacturer software.

In order to configure *Paxton IO Board*, proceed as follows:

1. Go to the **IO Board** object settings panel.



- 2. Enter the MAC address of the device in the **Mac address (1)** field.
- 3. Click **Read inputs config (2)** to read configuration of inputs from the device.

Note. As a result, the **IO Input** objects are created under the IO Board object (see [Configuring the Paxton IO Input](#)).

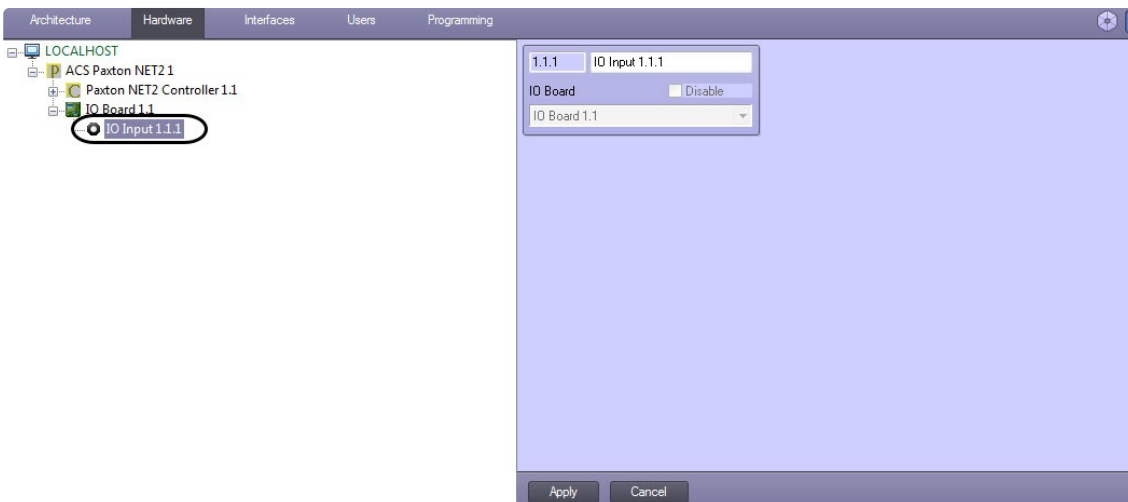
4. Click **Apply (3)** to save changes.

Paxton IO Board configuration is completed.

4.4.1 Configuring the Paxton IO Input

The *Paxton IO Input* is not configured on the **IO Input** object settings panel in any way.

Note. The **IO Input** objects are automatically created after reading inputs configuration (see [Configuring the Paxton IO Board](#)).



4.5 Synchronizing the configurations of the Axxon PSIM Server and the Net2 Server

In order to transfer the *Axxon PSIM* Server configuration to the *Net2* Server, the Net2Access Control utility creates the following objects corresponding to *ACFA PSIM* objects:

1. Departments — objects with the names **Axxon PSIM_dep_n**, where **n** is the number of the department in *ACFA PSIM*;
2. Users in the department, corresponding to the department in *ACFA PSIM*, with the same corresponding level of access as assigned in *ACFA PSIM*;
3. Level of access — objects with the names **Axxon PSIM_level_n**, where **n** is the number of the access level in *ACFA PSIM*;
4. Time zone — objects with the names **Axxon PSIM_tz_n**, where **n** is the number of the time zone in *ACFA PSIM*.

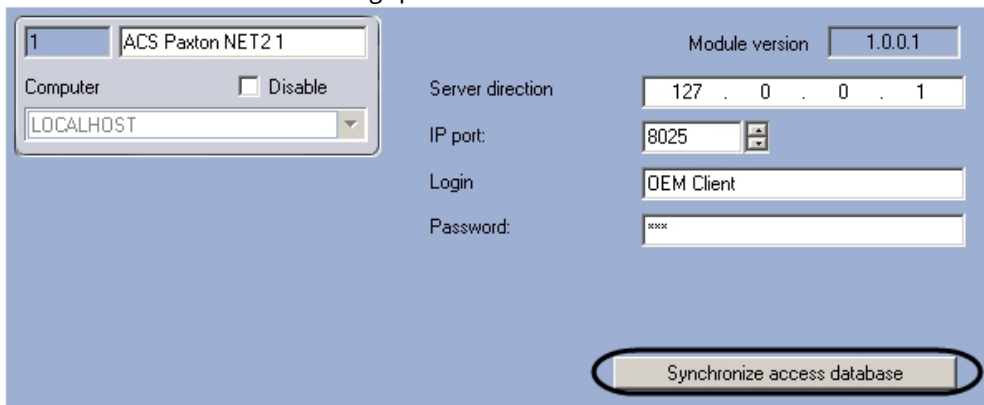
Note

In *ACFA PSIM* creating departments, users, time zones and assigning user access levels can be accomplished in the following ways:

- a) Using the *Access manager* service module. More on working with this module is described in the [Access Manager Module Settings and Operation Guide](#).
- b) Via *ACFA PSIM*. For details, see [Axxon PSIM™ Software Package Administrator's Guide](#).

In order to transfer the *Axxon PSIM* Server configuration to the *Net2* Server, follow these steps:

1. Go to the **ACS Paxton NET2** settings panel.



2. Click on the **Synchronize access database** button.

Note

If the configuration of the *Axxon PSIM* Server has been changed and a new configuration of the *Axxon PSIM* Server must be transferred to the *Net2* Server, it may be necessary to remove the objects created by a prior transfer using the Net2Access Control utility.

Transfer of the *Axxon PSIM* Server configuration to the *Net2* Server is complete.

5 Operating the Paxton ACS module

5.1 General information on operating the Paxton ACS module

In order to operate, the *Paxton ACS* module uses the following interface objects:

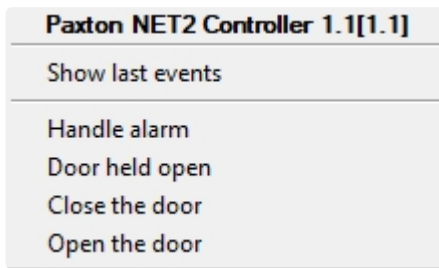
1. **Map.**
2. **Event log.**

Further information on configuring these interface objects is provided in [Axxon PSIM Software Package Administrator's Guide](#).

Working with the interface objects is described in detail in [Axxon PSIM Software Package Operator's Guide](#).

5.2 Managing the Paxton Controller

Managing the *Paxton* controller is done via the interactive **Map** window using the function menu of the "**Paxton Net2 Controller**" objects .



Description of function menu commands of the **Paxton Net2 Controller** objects is given below.

Function menu commands	Function performed
Handle alarm	Removes the alarm and sets the normal state to the controller.
Close the door	Closes the door
Open the door	Opens the door at the time specified in the " Paxton Net2 Controller " object settings
Door held open	Holds the door open until it is closed