



Paxton Integration Module Setup and User Guide

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Table of contents

1	List of terms used in Paxton Integration Module Setup and User Guide	3
2	Introduction into Paxton Integration Module Setup and User Guide	4
2.1	Purpose of the document.....	4
2.2	General information about the «Paxton ACS» module	4
3	Supported hardware and licensing of the Paxton integration module	5
4	Configuring the Paxton ACS module.....	6
4.1	Installation procedure for the Paxton ACS module	6
4.2	Configuring the connection of the Net2 Server to the Intellect Server	6
4.3	Configuring the Paxton controller	7
4.3.1	Configuring the Paxton readers	9
4.4	Configuring the Paxton IO Board	9
4.4.1	Configuring the Paxton IO Input	10
4.5	Synchronizing the configurations of the Intellect Server and the Net2 Server	11
5	Operating the Paxton ACS module	12
5.1	General information on operating the Paxton ACS module	12
5.2	Managing the Paxton Controller	12

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.

Intellect server – a computer with the *Intellect* **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 *Manual for installing and operating the Paxton module* is a reference and information tool, designed for specialists, for the installation and operation of the *Paxton* module. This module is included in the access control system (ACS) on the *ACFA Intellect* 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 Intellect* 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 Intellect* 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 <*Intellect* 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 configuration 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

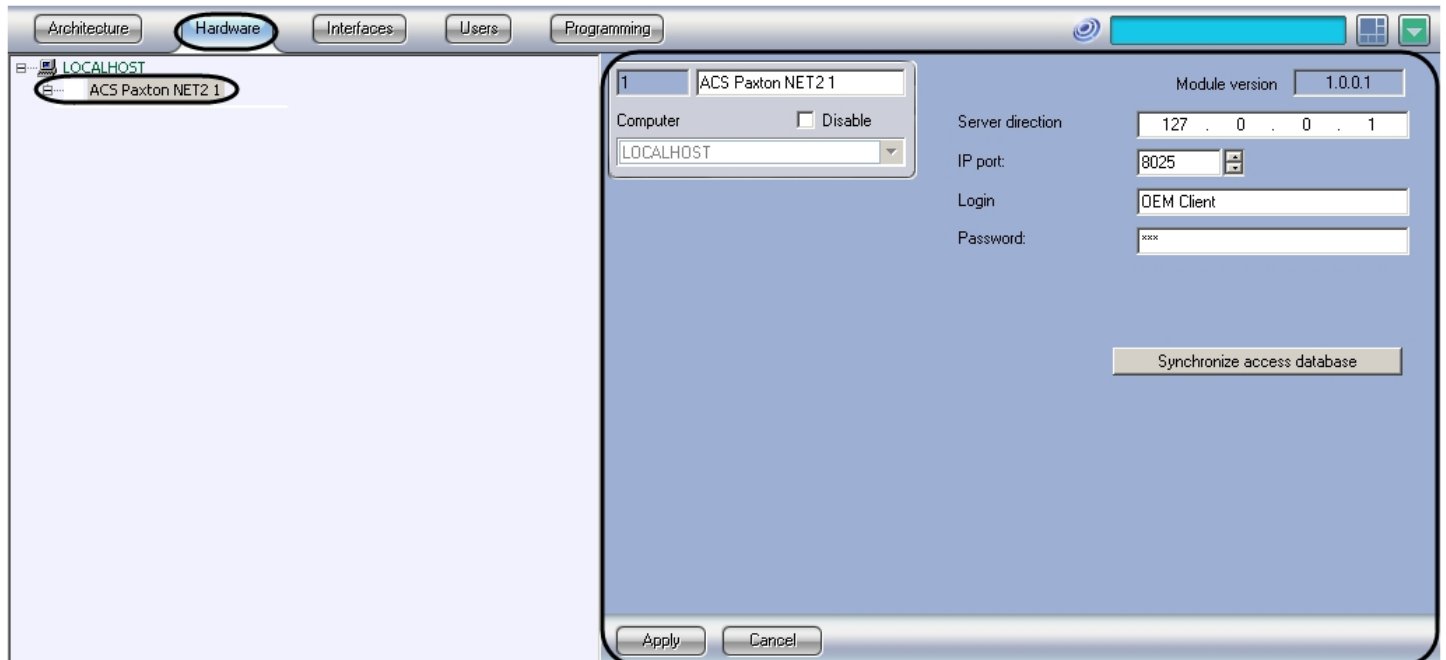
Install the *Paxton ACS* in the following sequence:

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

4.2 Configuring the connection of the Net2 Server to the Intellect Server

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

In *ACFA Intellect* configuring the connection of the *Net2* Server to the *Intellect* 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.

The screenshot shows a configuration dialog box for 'ACS Paxton NET2'. At the top left, there is a tab labeled '1' and the object name 'ACS Paxton NET2 1'. Below this is a 'Computer' section with a 'Disable' checkbox and a dropdown menu showing 'LOCALHOST'. On the right, the 'Module version' is '1.0.0.1'. The main configuration area contains four fields, each with a red circle and a number: 1. 'Server direction' with the value '127 . 0 . 0 . 1'; 2. 'IP port' with the value '8025' and up/down arrow buttons; 3. 'Login' with the value 'OEM Client'; 4. 'Password' with masked characters '***'. A 'Synchronize access database' button is located below these fields. At the bottom left, the 'Apply' button is circled in red, and a '5' is placed next to it. A 'Cancel' button is also present at the bottom.

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 *Intellect* 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).

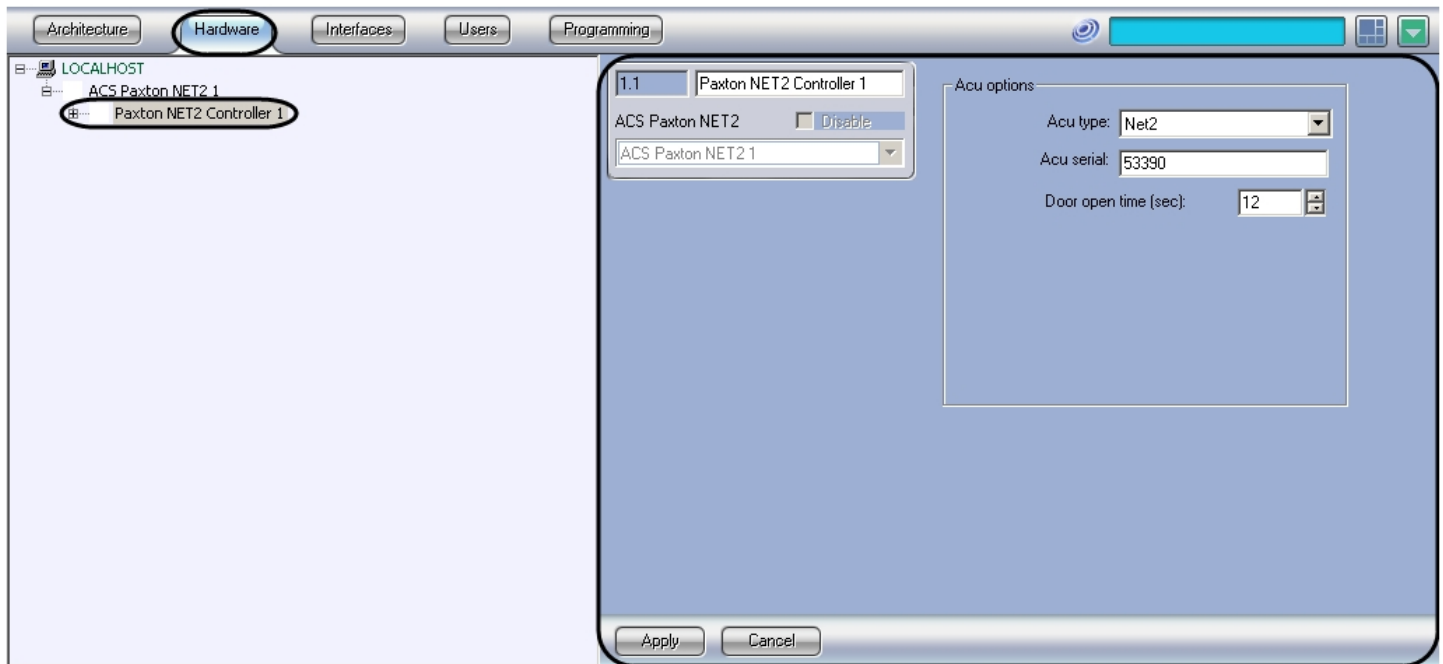
Note.

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).

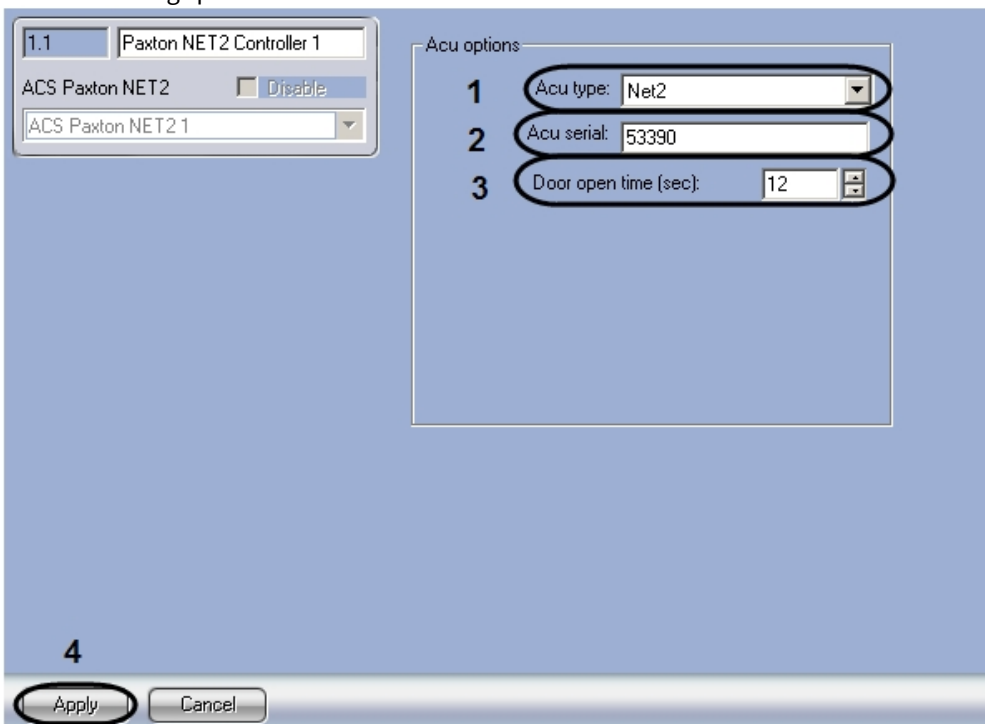
4.3 Configuring the Paxton controller

In the *ACFA Intellect* 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 *Intellect* to establish the connection with the controller.

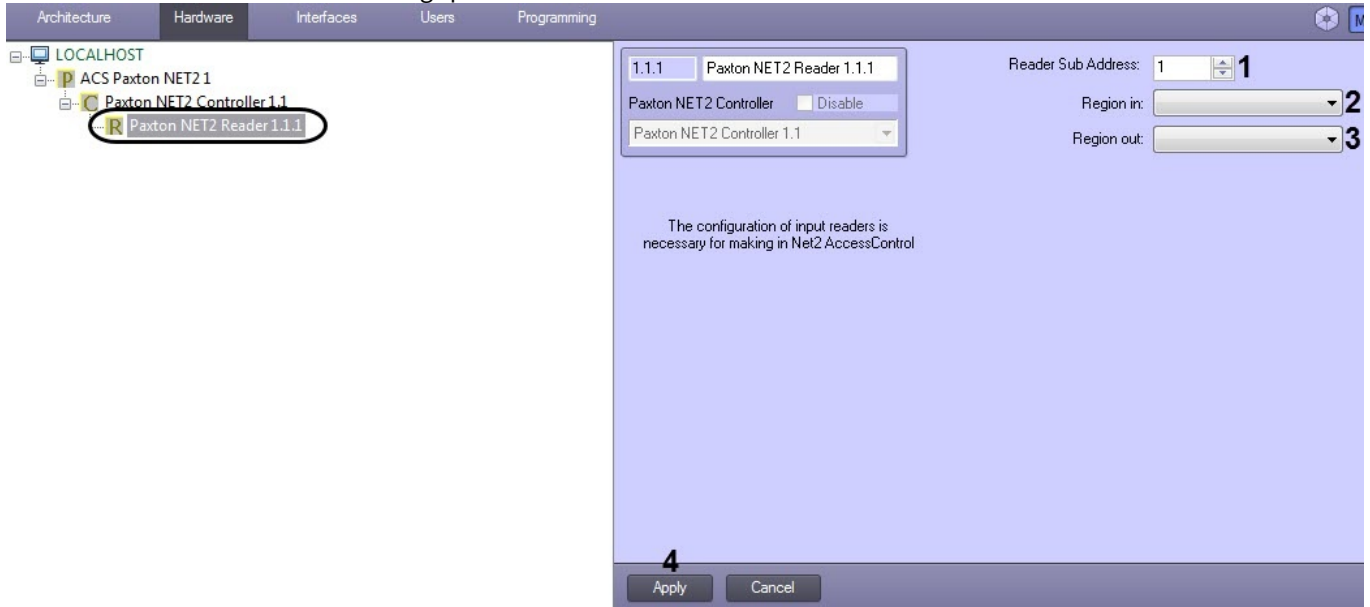
Configuration of the *Paxton* controller is complete.

4.3.1 Configuring the Paxton readers

In the *ACFA Intellect* 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 *Intellect* 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](#)).

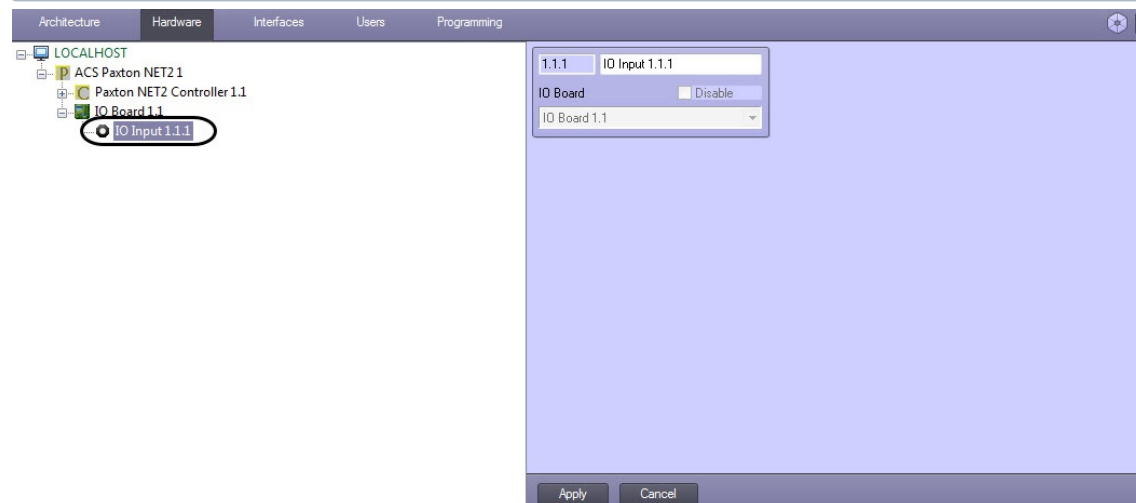
4. Click **Apply (3)** to save changes.

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 Intellect Server and the Net2 Server

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

1. Departments - objects with the names **intellect_dep_n**, where **n** is the number of the department in *ACFA Intellect*;
2. Users in the department, corresponding to the department in *ACFA Intellect*, with the same corresponding level of access as assigned in *ACFA Intellect*;
3. Level of access – objects with the names **intellect_level_n**, where **n** is the number of the access level in *ACFA Intellect*;
4. Time zone – objects with the names **intellect_tz_n**, where **n** is the number of the time zone in *ACFA Intellect*.

Note.

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

- a) Using the Access control service module. More on working with this module is described in the [Visitor Management System Module Settings and Operation Guide](#).
- b) Via ACFA Intellect. For details, see [Intellect™ Software Package Administrator's Guide](#).

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

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

The screenshot shows the 'ACS Paxton NET2' settings panel. It features a 'Computer' dropdown menu set to 'LOCALHOST' with a 'Disable' checkbox. To the right, there are fields for 'Server direction' (127.0.0.1), 'IP port' (8025), 'Login' (DEM Client), and 'Password' (masked with ****). A 'Module version' field shows 1.0.0.1. At the bottom right, a button labeled 'Synchronize access database' is highlighted with a red oval.

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

Note.

If the configuration of the Intellect Server has been changed and a new configuration of the Intellect 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 *Intellect* 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:

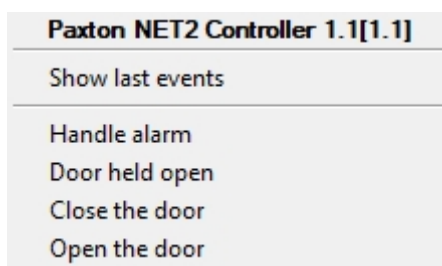
1. **Map;**
2. **Event record.**

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

Working with the interface objects is described in detail in the [Intellect™ 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