Nitgen Integration Module Settings Guide

Introduction into Nitgen Integration Module Configuration and Operation Manual

On the page:

Purpose of the document

Configuration and operation manual for *Nitgen* integration module is a reference and information guide meant for *Nitgen* configuration specialists. This module is a part of *ACFA Intellect* software package.
This Guide provides:

1. general information about *Nitgen ACS* module;
2. information about how to configure *Nitgen ACS* module;
3. information about how to work with *Nitgen ACS* module.

General information about Nitgen module

The *Nitgen* module is the *ACFA Intellect*-based ACS component. It performs the following functions:

1. Configuring the *Nitgen ACS* (manufactured by NITGEN Co.);
2. Ensuring interaction between the *Nitgen ACS* and *ACFA Intellect* (monitoring, control).

> **Note.**
>
> For more information about the *Nitgen ACS*, please refer to official documentation for this system.

Before configuring the *Nitgen* integration module:

1. Install the *Nitgen ACS* hardware at the secure facility (refer to the *Nitgen ACS* reference documentation);
2. Install the *Access Manager SDK* which is located in the <*Intellect installation directory*>\ *Modules**Nitgen* folder.
3. Connect the *Nitgen ACS* to the *Intellect* Server.

Supported hardware and licensing of the Nitgen integration module

Manufacturer	Nitgen Co., Ltd. Fax **:** +82-2-6488-3096 Sales/Marketing **:** sales1@nitgen.com Customer Center **:** customer@nitgen.com
Integration type	SDK
Equipment connection	Ethernet

Supported equipment

Equipment	Function	Features

NAC 2500	Access controller	Log capacity: 67,500 logs Template capacity: 5,000 templates (2 templates/1 finger, 2,500 users) Lock: Deadbolt, EM Lock, Door Strike, Automatic Door Live fingerpring detection USB memory slot

Equipment supporting the same SDK but not tested by AxxonSoft QA engineers: FINGKEY-ACCESS, FINGKEY-ACCESS 2, NAC3000, NAC5000, etc. AxxonSoft does not guarantee these devices operation with the *Nitgen* integration module. If you need them for you project, please consult with your AxxonSoft manager to arrange tests.

Protection
1 controller.

Configuring the Nitgen integration module

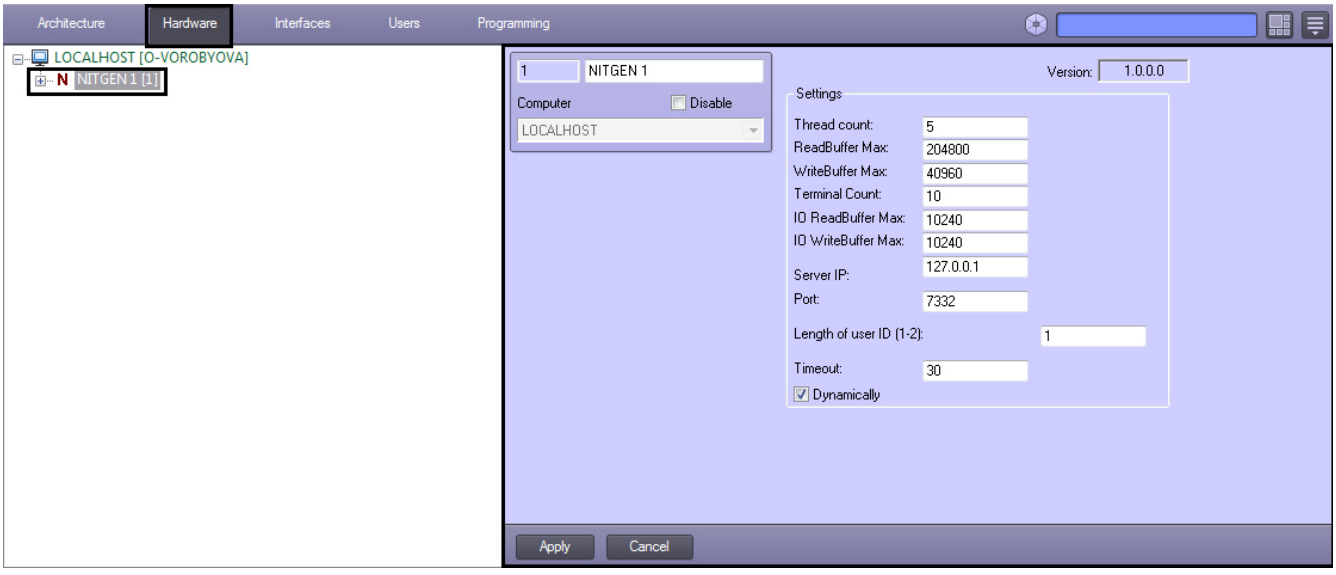
Configuration procedure for the Nitgen integration module

Here is the configuration procedure for the *Nitgen* integration module:

1. Configure the *Nitgen ACS* connection to the *ACFA Intellect* Server.
2. Configure the *Nitgen ACS* controller.
3. Configure the *Nitgen ACS* users.

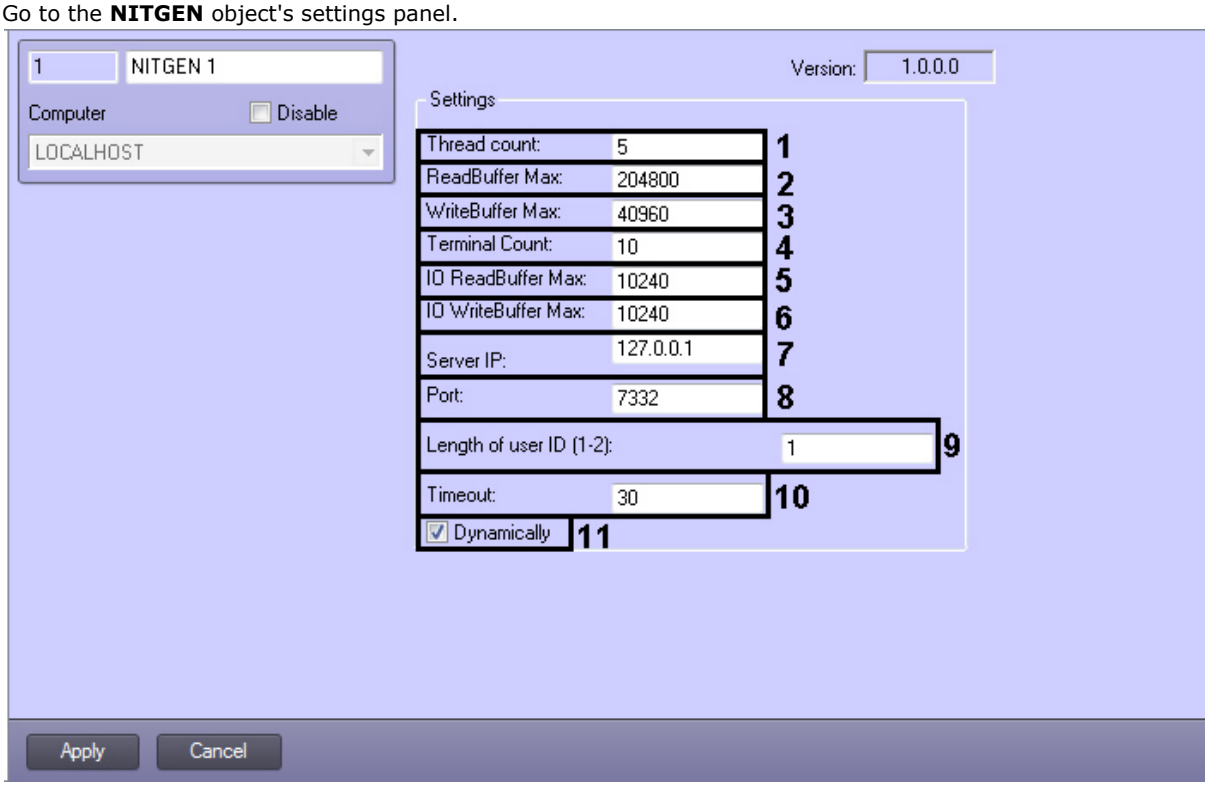
Configuring the Nitgen ACS connection

To configure the *Nitgen ACS* connection to the *ACFA Intellect* Server use the relevant **NITGEN** object which is created on the basis of the **Computer** object on the **Hardware** tab of the **System settings** dialog object.



To configure the *Nitgen* integration module's connection, do the following:

1. Go to the **NITGEN** object's settings panel.

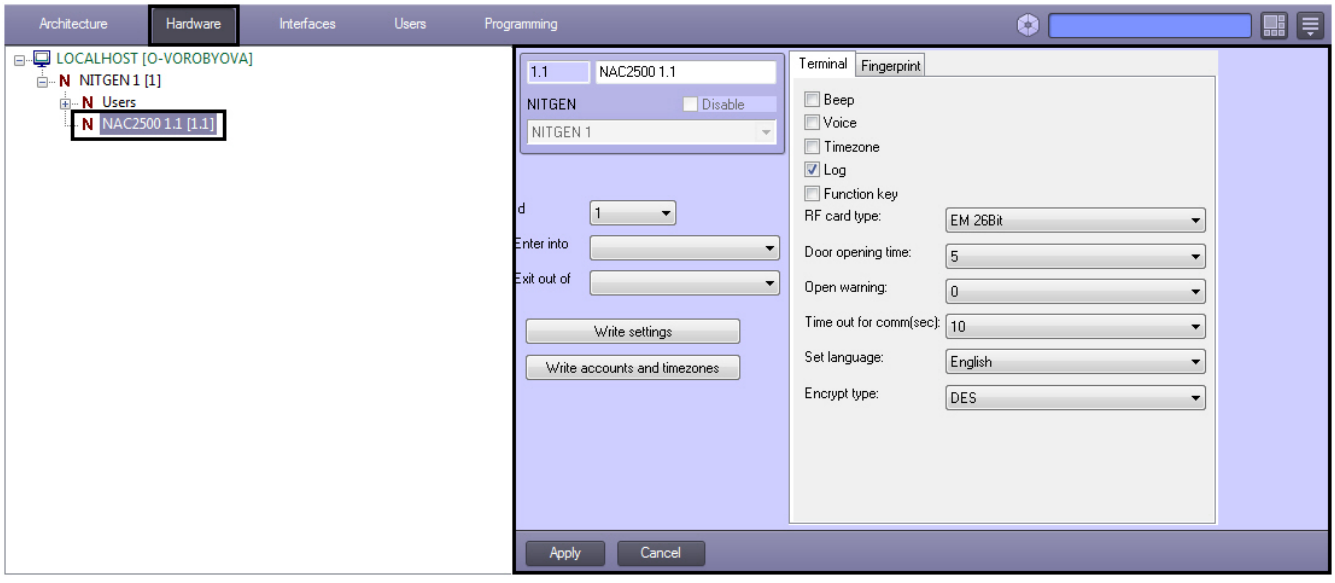


2. In the **Thread count:** field enter the number of data processing threads (**1**).
3. In the **ReadBuffer Max:** field enter the maximal size of buffer which will save data received from terminals (**2**).
4. In the **WriteBuffer Max:** field enter the maximal size of buffer which will save data to be sent to terminals (**3**).
5. In the **Terminal Count:** field enter the number of terminals connected to the server simultaneously (**4**).
6. In the **IO ReadBuffer Max:** filed enter the maximal size of data which will read in the network at one time (**5**).
7. In the **IO WriteBuffer Max:** filed enter the maximal size of data which will be written in the network at one time (**6**).
8. In the **Server IP:** filed enter the IP-address of server (**7**).
9. In the **Port:** field enter the number of the COM port to connect to *Nitgen ACS* (**8**).
10. In the **Length of user ID (1-2):** field enter the length of user ID (**9**).
11. In the **Timeout:** field enter the timeout of connection (**10**).
12. Set the **Dynamically** checkbox to send data to the controller dynamically (**11**).
13. Click **Apply** to save changes.

Configuring of the *Nitgen ACS's* connection is completed.

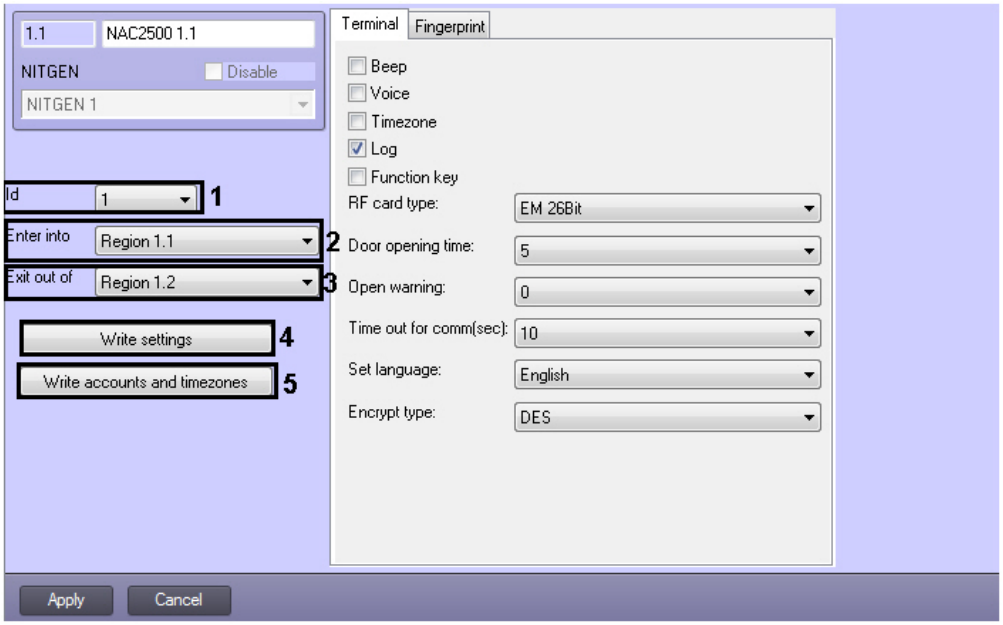
Configuring the NAC2500 controller

Configuring of the *Nitgen* controllers is performed on the settings panel of the **NAC2500** object which is created on the basis of the **NITGEN** object on the **Hardware** tab of the **System settings** dialog window.



To configure the *Nitgen* controller, do the following:

1. Go to the **NAC2500** object's settings panel.



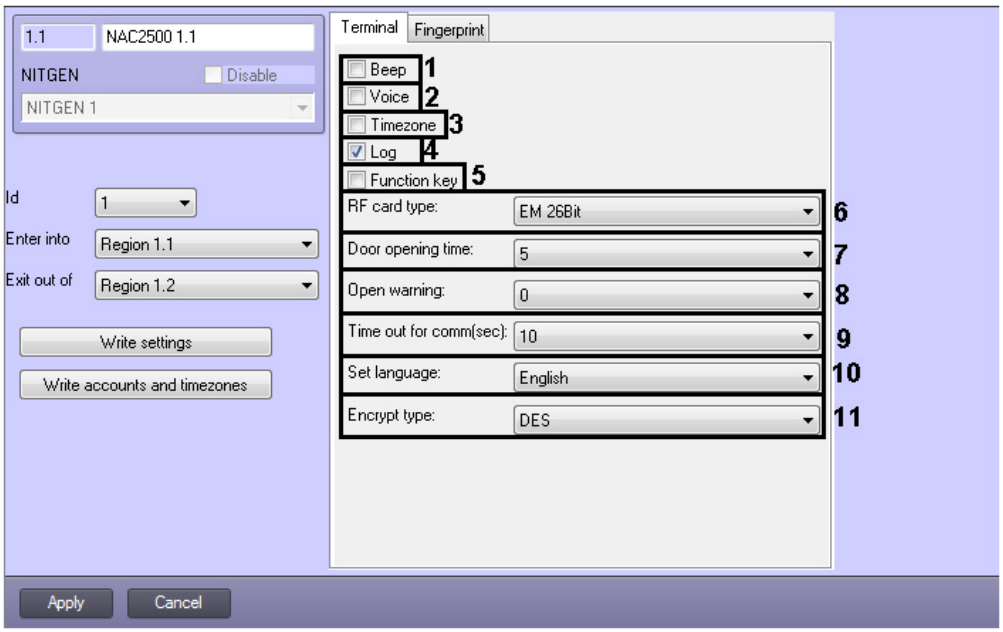
2. From the **Id** drop-down list select the id number of controller (**1**).
3. From the **Enter into** drop-down list select the **Region** object corresponding to the territory situated on the side of exit from the territory via the controller (**2**).
4. From the **Exit out of** drop-down list select the **Region** object corresponding to the territory situated on the side of entrance to the territory via the controller (**3**).
5. Click the **Write settings** button to send settings to the controller (**4**).
6. Click the **Write accounts and timezones** button to send accounts and time zones to the controller (**5**).
7. Click **Apply** to save changes.

Configuring the *NAC2500* controller is completed.

Configuring the Nitgen terminals

To configure the *Nitgen* terminal, do the following:

1. Go to the **Terminal** tab of the **NAC2500** object's settings panel.



2. Set the **Beep** checkbox to generate sounds when screen is touched or keys are pressed on the terminal (**1**).
3. Set the **Voice** checkbox to receive voice instructions when authenticating fingerprint at the terminal (**2**).
4. Set the **Timezone** checkbox to enable time zone-related functions (**3**).
5. Set the **Log** checkbox to transfer the log when an event occurs in the terminal (**4**).
6. Set the **Function key** checkbox to use terminal function keys in application programs (**5**).
7. From the **RF card type:** drop-down list select the required card type if RF cards are used to authenticate users (**6**).
8. From the **Door opening time:** drop-down list select duration of door opening after the user is authenticated (**7**).

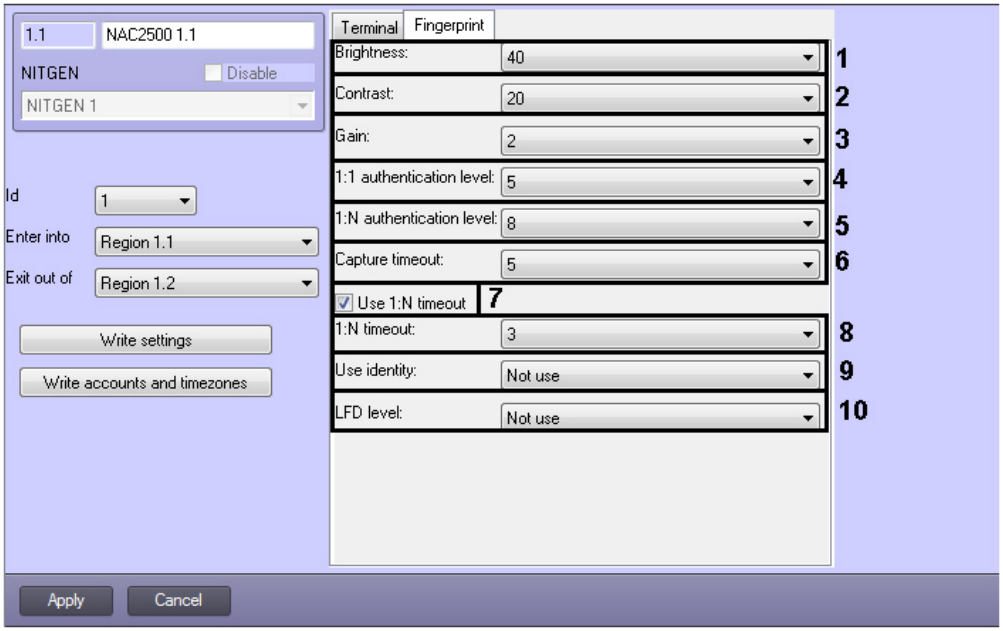
9. From the **Open warning:** drop-down list select time period after which an alarm will sound if the door remains open for longer than the specified period (**8**).
10. From the **Time out for comm(sec):** drop-down list select the time period after which the network connection will be considered nonexistent if the server and terminal are communicating through a network and no response occurs within the specified time (**9**).
11. From the **Set language:** drop-down list select the language to display on the terminal screen (**10**).
12. From the **Encrypt type:** drop-down list select the type of encryption for the data transmitted between the terminal and the network (**11**).
13. Click **Apply** to save changes.

Configuring of the *Nitgen* terminal is completed.

Configuring the Nitgen fingerprints

To configure the *Nitgen* fingerprints, do the following:

1. Go to the **Fingerprint** tab of the **NAC2500** object's settings panel.

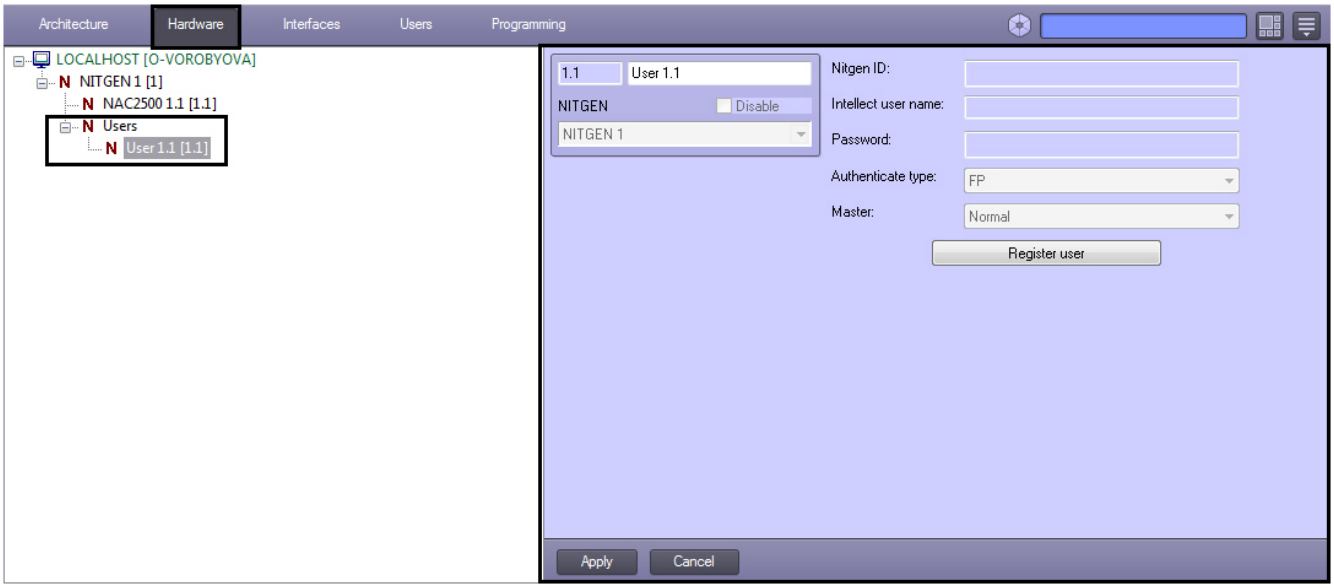


2. From the **Brightness:** drop-down list select the brightness of the fingerprint (**1**).
3. From the **Contrast:** drop-down list select the contrast of the fingerprint (**2**).
4. From the **Gain:** drop-down list select the intensity of the fingerprint (**3**).
5. From the **1:1 authentication level:** drop-down list select the security level which will be used for fingerprint authentication with User ID (**4**).
6. From the **1:N authentication level:** drop-down list select the security level which will be used for fingerprint authentication without User ID (**5**).
7. From the **Capture timeout:** drop-down list select the fingerprint capture timeout (**6**).
8. Set the **Use 1:N timeout** checkbox to limit the fingerprint search for 1:N authentication within the specified period (**7**).
9. From the **1:N timeout:** drop-down list select the time period by which the fingerprint search will be limited for 1:N authentication (**8**).
10. From the **Use identity:** drop-down list select the way of authentication: use 1:N authentication or shorted authentication (**9**).
11. From the **LFD level:** drop-down list select one of four Live Finger Detection levels to detect forged fingerprints (**10**).
12. Click **Apply** to save changes.

Configuring of the *Nitgen* fingerprints is configured.

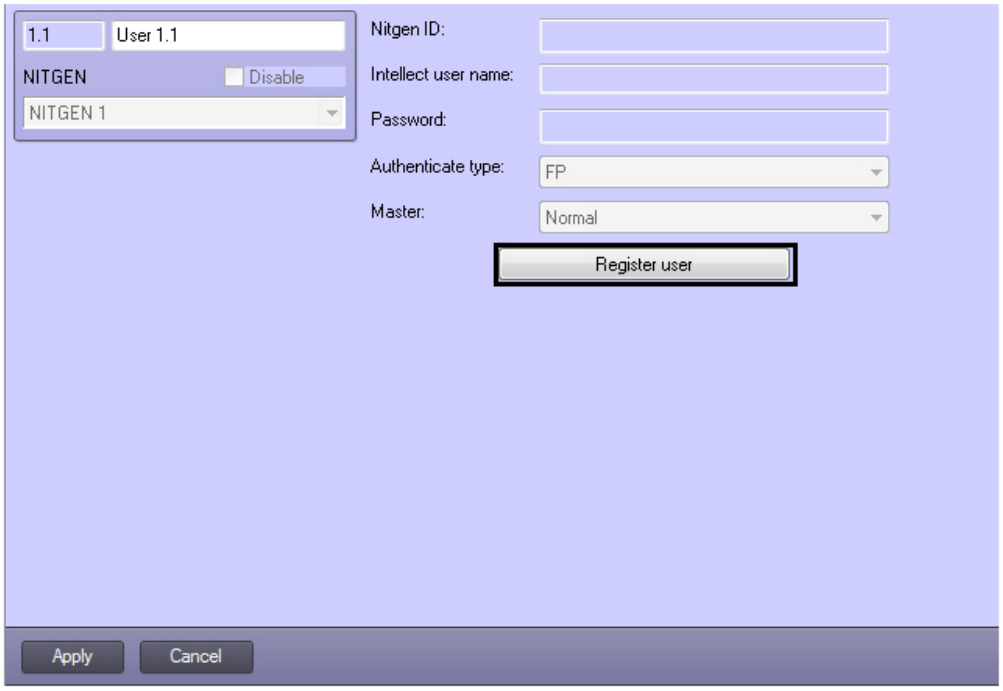
Configuring the Nitgen users

Configuring of the *Nitgen* users is performed on the settings panel of the **User** object which is created on the basis of the **N ITGEN** object on the **Hardware** tab of the **System settings** dialog window.

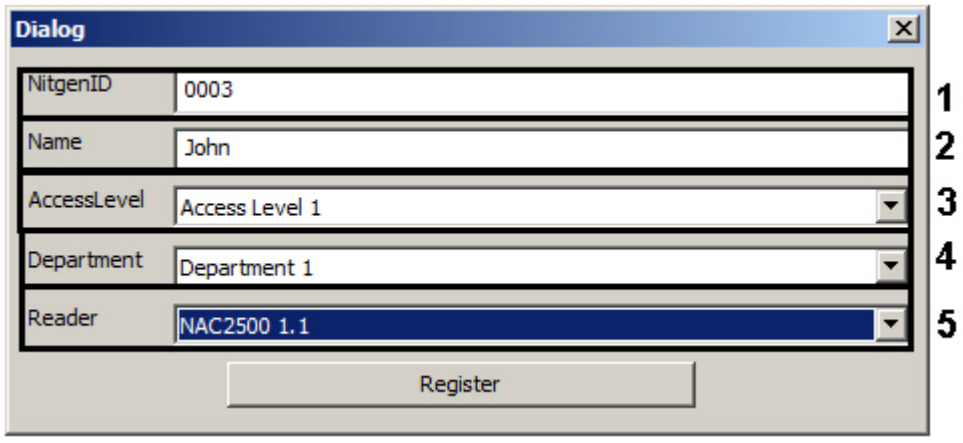


To configure the *Nitgen* users, do the following:

1. Go to the settings panel of the **User** object.



2. Click the **Register user** button. The **Dialog** window will open.

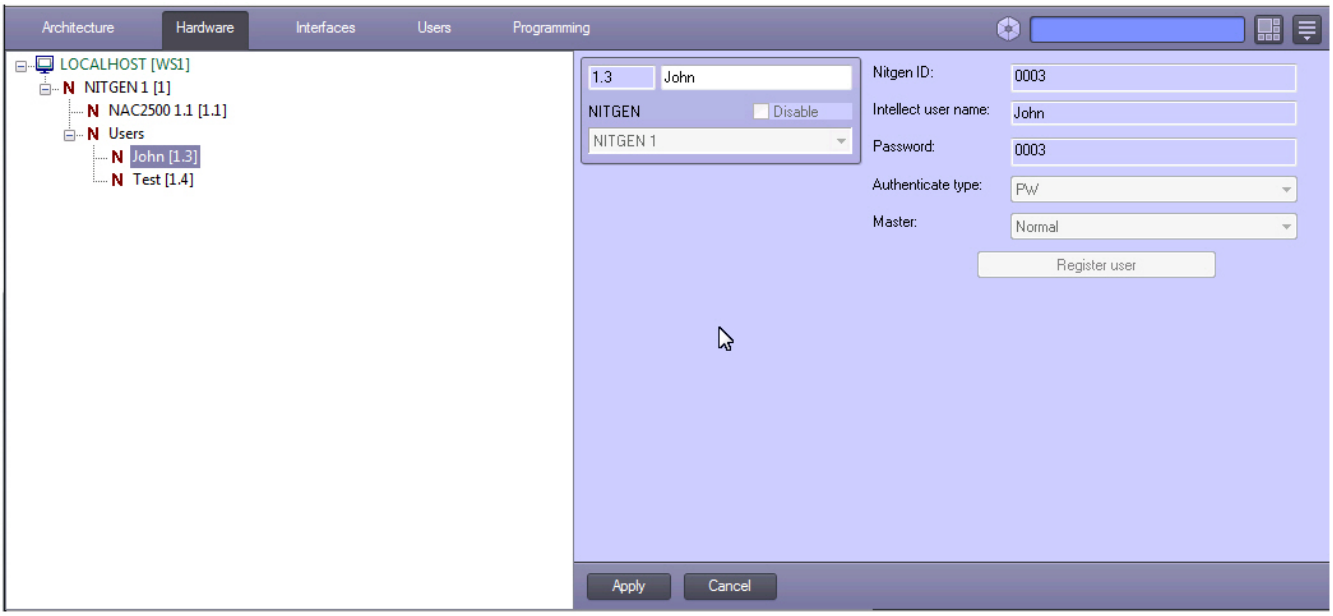


3. In the **NitgenID** field enter the user identification number (**1**).
4. In the **Name** field enter the user name (**2**).
5. From the **AccessLevel** drop-down list select the **Access level** object which is assigned to the user (**3**).
6. From the **Department** drop-down list select the Department object to which the user belongs (**4**).

7. From the **Reader** drop-down list select the corresponding reader (**5**).
8. Click the **Register** button.

When all settings in the *ACFA Intellect* software are performed it's required to register user through the *Nitgen* device (see the official documentation on the *Nitgen* system).

After that the created user will be added to the *ACFA Intellect* software and to the *Visitor Management System* interface module.



Configuring of the *Nitgen* user is completed.

Working with the Nitgen Module

The **Event viewer** interface objects are used to work with the *Nitgen* Module.

Information about configuring this interface object is presented in the *Intellect Software System: Administrator's Guide*.

How to work with interface objects is described in detail in *Intellect Software System:* Operator's Guide.