



Nitgen Integration Module Configuration
and Operation Manual

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Introduction into Nitgen Integration Module Configuration and Operation Manual

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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.

Configuring the Nitgen integration module

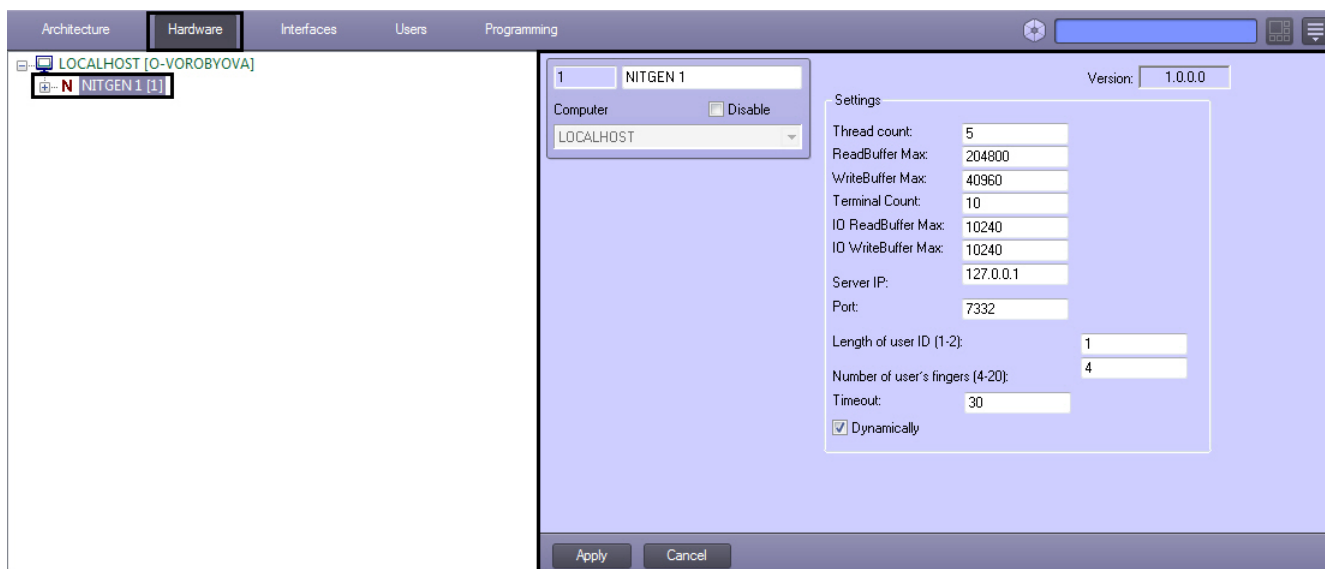
Configuration procedure for the Nitgen integration module

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.](#)

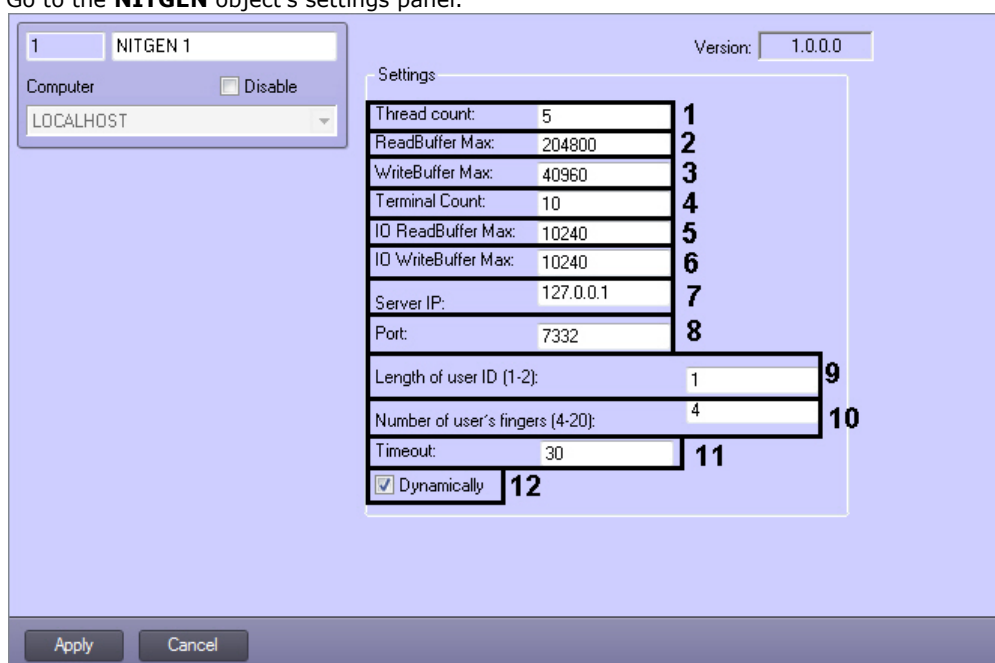
Configuring the Nitgen ACS connection

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.

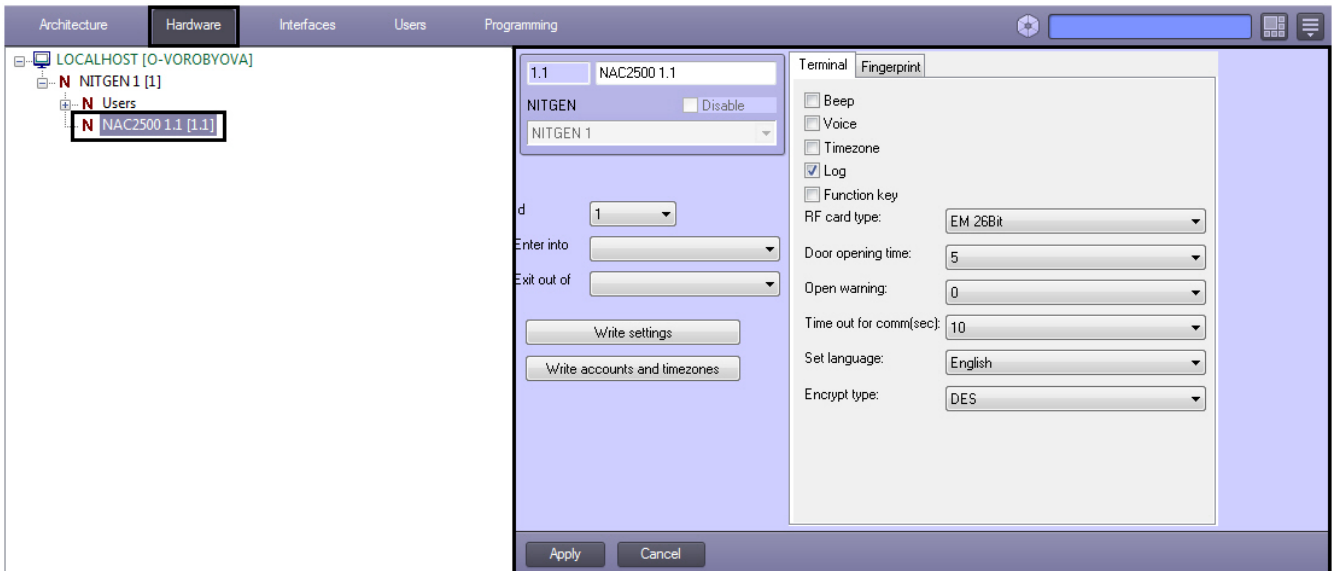


2. In the **Thread count:** field enter the number of data processing threads (1).
3. In the **ReadBuffer Max:** field enter the maximal size of buffer which will save data received from terminals (2).
4. In the **WriteBuffer Max:** field enter the maximal size of buffer which will save data to be sent 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:** field enter the maximal size of data which will read in the network at one time (5).
7. In the **IO WriteBuffer Max:** field enter the maximal size of data which will be written in the network at one time (6).
8. In the **Server IP:** field 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 **Number of user's fingers (4-20):** field enter the number of fingerprints per finger (10).
12. In the **Timeout:** field enter the timeout of connection (11).
13. Set the **Dynamically** checkbox to send data to the controller dynamically (12).
14. Click **Apply** to save changes.

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

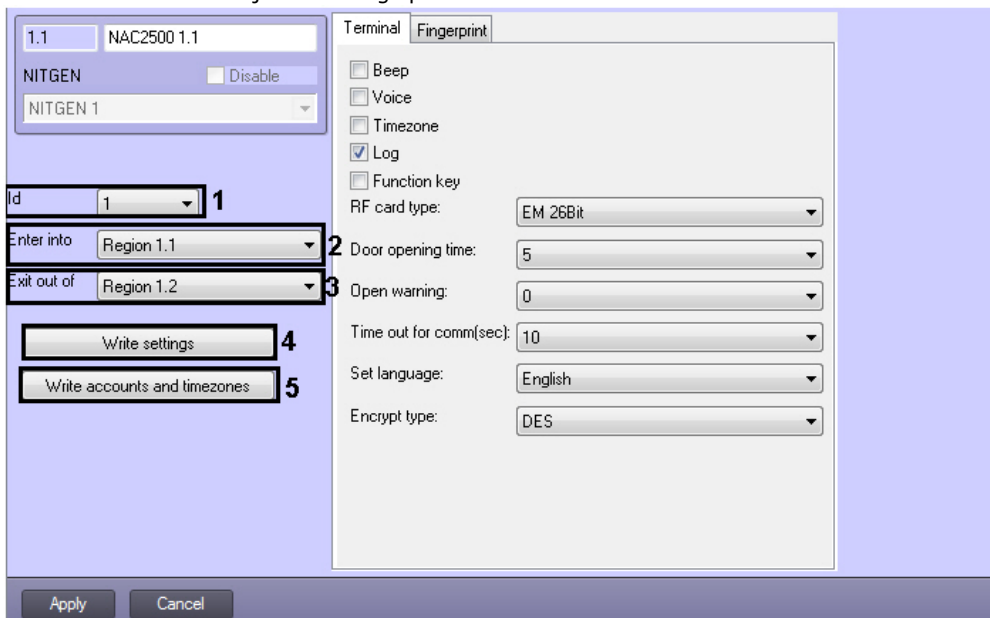
Configuring the NAC2500 controller

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.



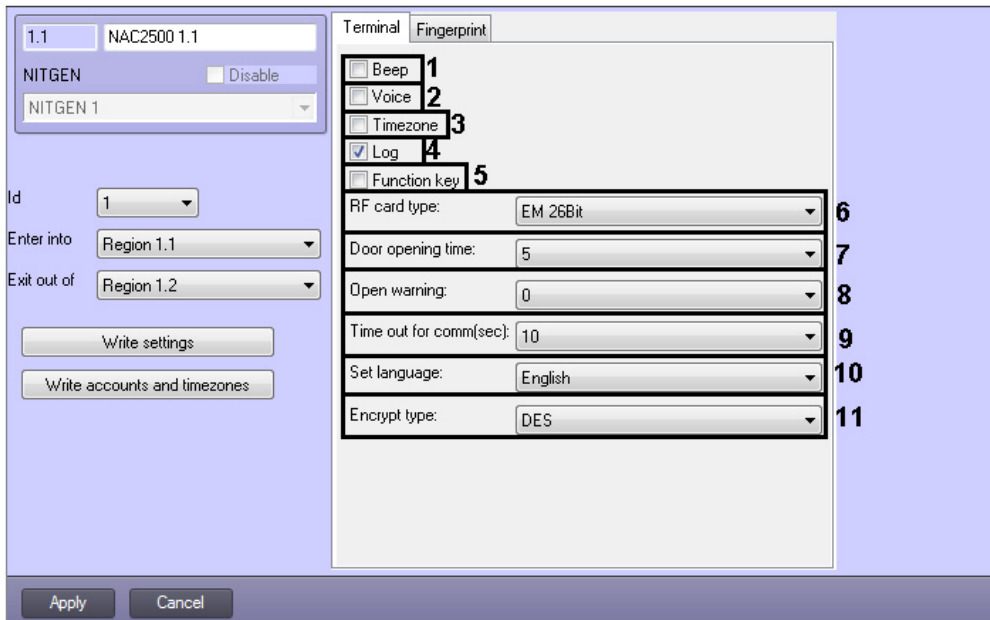
2. From the **Id** drop-down list select the id number of controller (1).
3. From the **Enter into** drop-down list select the **Region** object corresponding to the territory situated on the side of exit from the territory via the controller (2).
4. From the **Exit out of** drop-down list select the **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.



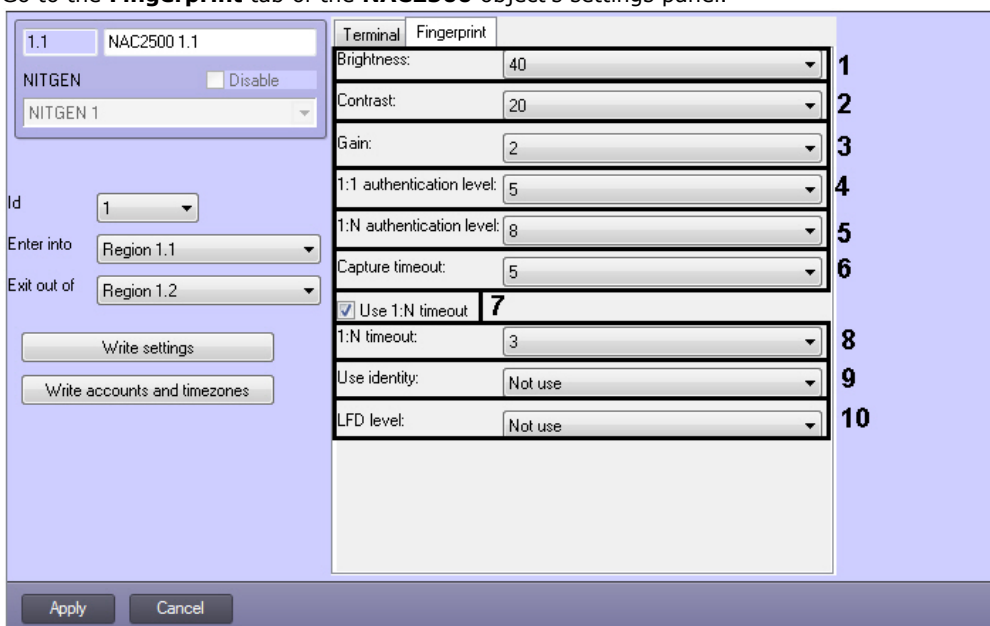
2. Set the **Beep** checkbox to generate sounds when screen is touched or keys are pressed on the terminal (1).
3. Set the **Voice** checkbox to receive voice instructions when authenticating fingerprint at the terminal (2).
4. Set the **Timezone** checkbox to enable time zone-related functions (3).
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.



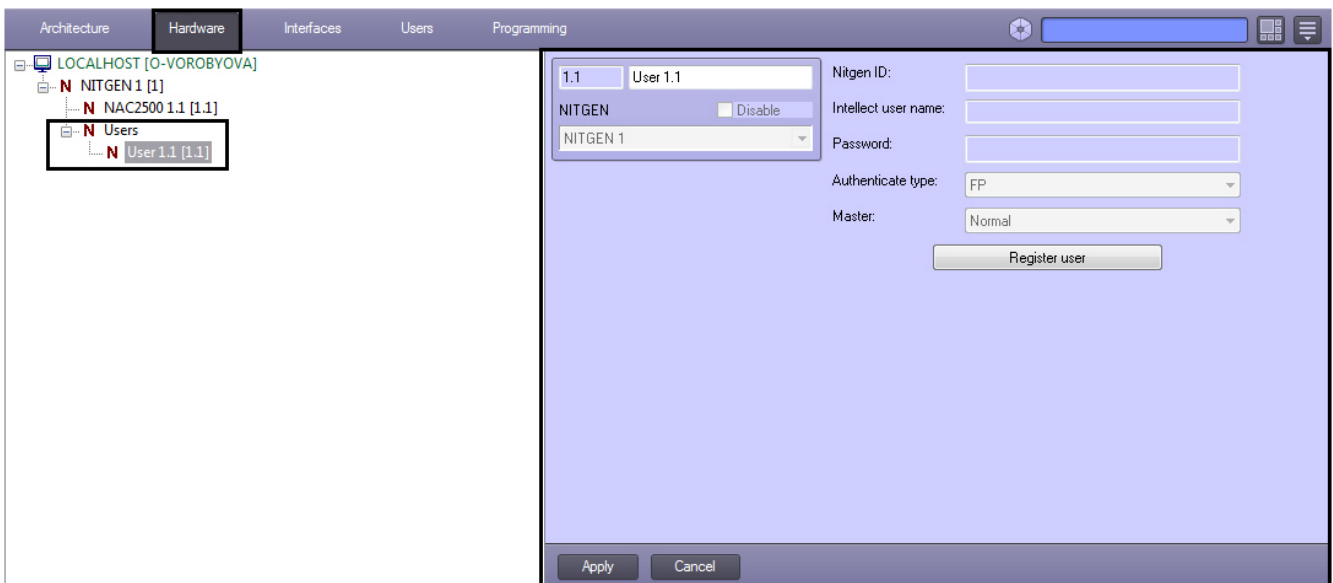
2. From the **Brightness:** drop-down list select the brightness of the fingerprint (1).
3. From the **Contrast:** drop-down list select the contrast of the fingerprint (2).
4. From the **Gain:** drop-down list select the intensity of the fingerprint (3).
5. From the **1:1 authentication level:** drop-down 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.

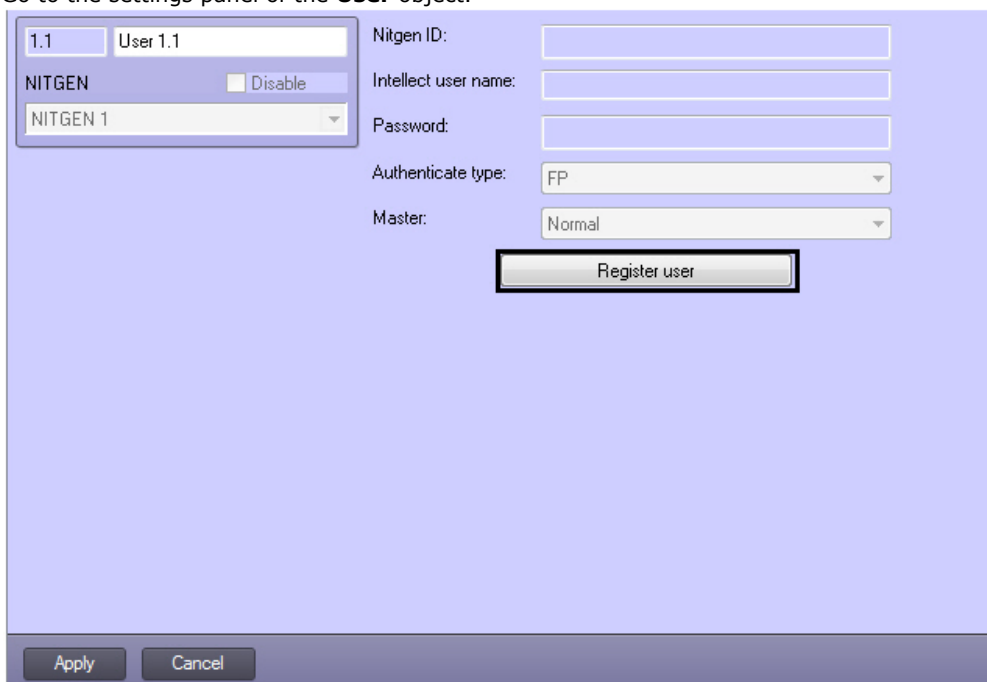
Configuring the Nitgen users

Configuring of the *Nitgen* users is performed on the settings panel of the **User** object which is created on the basis of the **NITGEN** 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.

The dialog window contains the following fields and values:

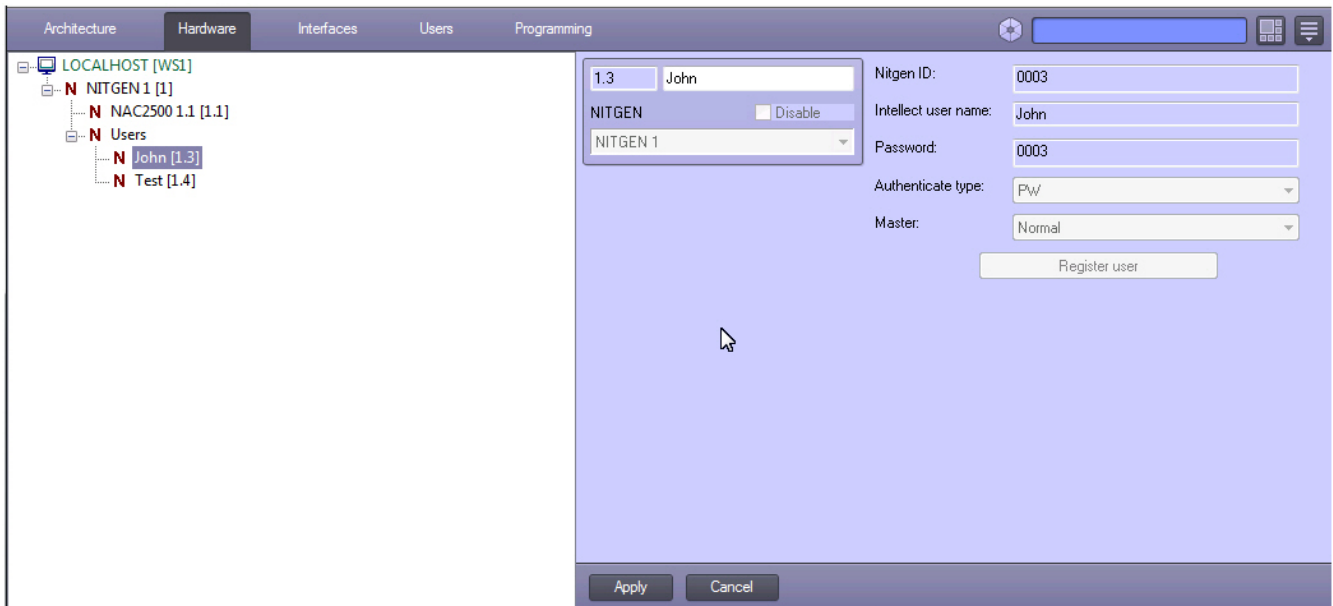
- NitgenID: 0003
- Name: John
- AccessLevel: Access Level 1
- Department: Department 1
- Reader: NAC2500 1.1

A 'Register' button is located at the bottom center of the dialog.

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*.