SALTO Integration Module Configuration and Operation Manual

ACFA PSIM 1.1

Last update 05/03/2024

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1 List of terms used in SALTO Integration Module Configuration and Operation Manual

Access is a moving of users, transport and other objects into (out of) the premises, buildings, zones and territories.

Server is a computer with installed **Server** configuration of *Axxon PSIM* software package.

Client is a computer with installed **Client** configuration of *Axxon PSIM* software package.

Controller is an electronic device for control over access points.

Access control system (ACS) is a hardware-software complex for carrying out access control functions.

Readers are electronic devices for keyboard inputting the stored code or for reading code information from system keys (identifiers).

Access point is a place where there is access control. Access point can be performed by the door, turnstile, gates, barrier that are equipped by reader, electromechanical lock and other means of access control.

Access identifier is a key (physical or digital) using which one can access the premises, buildings, zones and territories.

Access card is a physical access identifier that is registered by reader.

Encoder is an electronic device for specifying access cards to users.

Time schedule - a set of any number of time intervals during a day (24 hours) defined for several days (1 to 366), and the time intervals during specific dates. Time schedule defines a schedule of access to the secured object.

PPD (portable programming device) – device used for transferring data between *Salto* devices and computer.

SHIP (Salto Host Interface Protocol) is a protocol by which the SALTO ACS vendor software operates with the software of third-party manufacturer.

Time schedule - a set of any number of time intervals during a day (24 hours) defined for several days (1 to 366), and the time intervals during specific dates. Time schedule defines a schedule of access to the secured object.

2 Introduction into SALTO Integration Module Configuration and Operation Manual

On the page:

2.1 Purpose of document

Configuration and operation manual for the SALTO integration module is an informational reference manual intended for use by configuration specialists and operators of the *SALTO* module. This module is a part of the fire and security alarm subsystem (SALTO) implemented with the *ACFA PSIM software package*.

This Guide contains the following materials:

1. general information on the *SALTO* integration module;
2. configuration of the *SALTO* integration module;
3. operation of the *SALTO* integration module.

2.2 General information about SALTO integration module

SALTO integration module is a component of ACS that is carried out on the basis of *ACFA PSIM* software package. It is for realization of the following functions:

1. SALTO ACS configuration (SALTO Systems is a vendor);
2. providing interaction between SALTO ACS and *ACFA PSIM* (monitoring, control).

Note.

For more information on the SALTO ACS system, refer to the official documentation on this system.

Attention!

The server of *ACFA PSIM* started on one computer and the software of the *SALTO* ACS vendor are essential for operation of the *SALTO* integration module.

Note.

Remote control over the *SALTO* module can be performed from the Clients of distributed system that is constructed on the basis of *ACFA PSIM* software package.

Before operation of the *SALTO* integration module do the following:

1. Install the *SALTO ACS* hardware at the guarded object (see the reference documentation on the *SALTO ACS*).
2. Configure the *SALTO ACS* in vendor's software (see the official reference documentation).

3. Connect the *SALTO* ACS to the Server.

3 Supported hardware and licensing of the SALTO integration module

Manufacturer	SALTO Systems, S.L Pol. Lanbarren C/ Arkotz, 9 20180 Oiartzun Spain Phone: +34 943 344 550 Website: www.saltosystems.com
Integration type	SOFT-SOFT Salto Access PRO

Supported equipment

Equipment	Function	Features
CU50EN	On-line controller	2 reader connections 2 relay outputs Maximum number of users per door: 64,000 Maximum number of doors in a system: 64,000 Maximum events on door controller: 300 Time zones: 256 Time periods: 30 Calendars in system: 256 Zones in system: 1,024 User groups: unlimited Ethernet interface
CU50ENSVN	On-line controller	2 reader connections 2 relay outputs Maximum number of users per door: 64,000 Maximum number of doors in a system: 64,000 Maximum events on door controller: 300 Time zones: 256 Time periods: 30 Calendars in system: 256 Zones in system: 1,024 User groups: unlimited Ethernet interface
Encoder	Desktop reader	Reading, encoding and updating cards

Protection
1 IP address. SHIP module is to be purchased as integration is performed using the SHIP protocol.

4 Configuration of SALTO integration module

4.1 Procedure for configuring of SALTO integration module

The *SALTO* integration module is configured through the following steps:

1. Configuration of *SALTO ACS* in vendor software.
2. Configuration of *SALTO ACS* connection to *ACFA PSIM* software package.
3. Downloading and recording of *SALTO ACS* configuration.
4. Assigning the access levels to users.
5. Specifying the *SALTO ACS* cards.
6. Configuration of the *SALTO ACS* doors.
7. Configuration of the *SALTO ACS* zones.

4.2 Configuration of SALTO ACS in vendor software

4.2.1 Procedure of configuring of SALTO ACS in vendor software

This chapter contains first steps for getting started the SALTO ACS. More detailed configuration has to be accomplished in accordance with vendor manual.

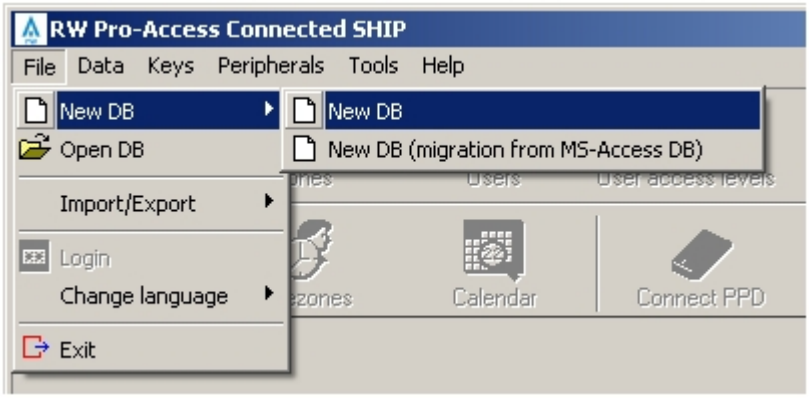
After the SALTO ACS vendor software installation do the following steps:

1. Create a database.
2. Configure the SHIP port for data transfer.
3. Add the peripherals to the list.
4. Configure the wireless locks if it is necessary.

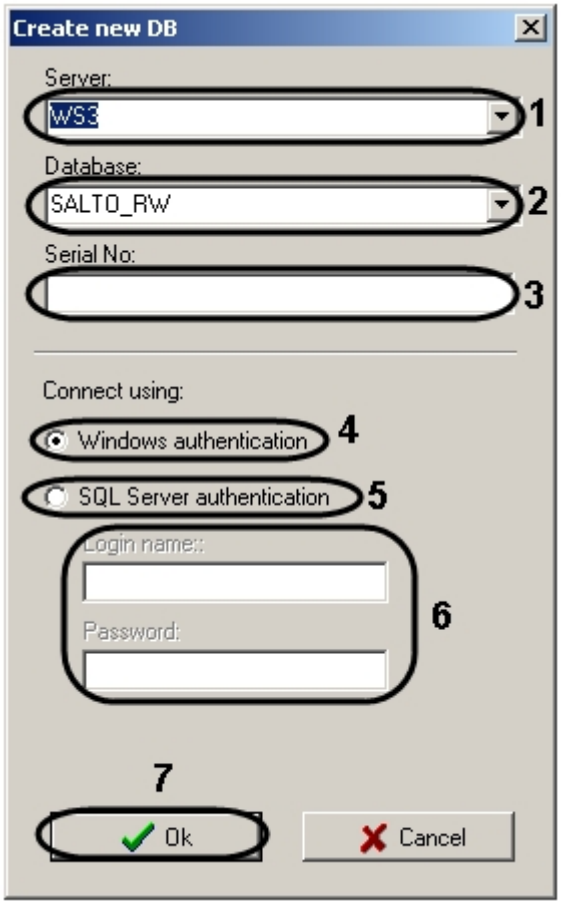
4.2.2 Creating a SALTO ACS database

To create the SALTO database at the first startup of SALTO vendor software, do the following:

1. Start the SALTO vendor software.
2. In the **File** menu, select **New DB**->**New DB**.



3. From the **Server** drop-down list select database server name (**1**).



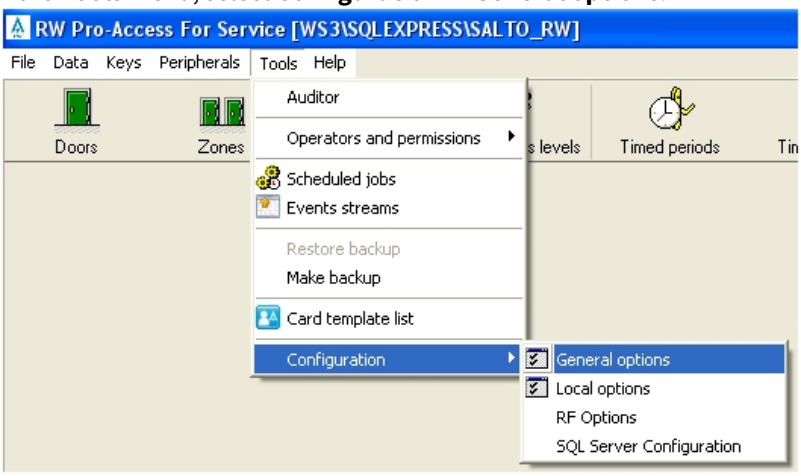
4. In the **Database** field, enter a new database name (**2**).
5. In the **Serial No** field, enter a product serial number or leave the field empty (**3**).
6. Set the **Windows authentication** checkbox if it's necessary to use Windows credentials (**4**).
7. If it's necessary to use SQL–server authentication do the following steps:
    a. Set the **SQL server authentication** checkbox (**5**).
    b. Enter the user login name and password (**6**).
8. To save changes click **Ok** (**7**).

The new database creation is completed.

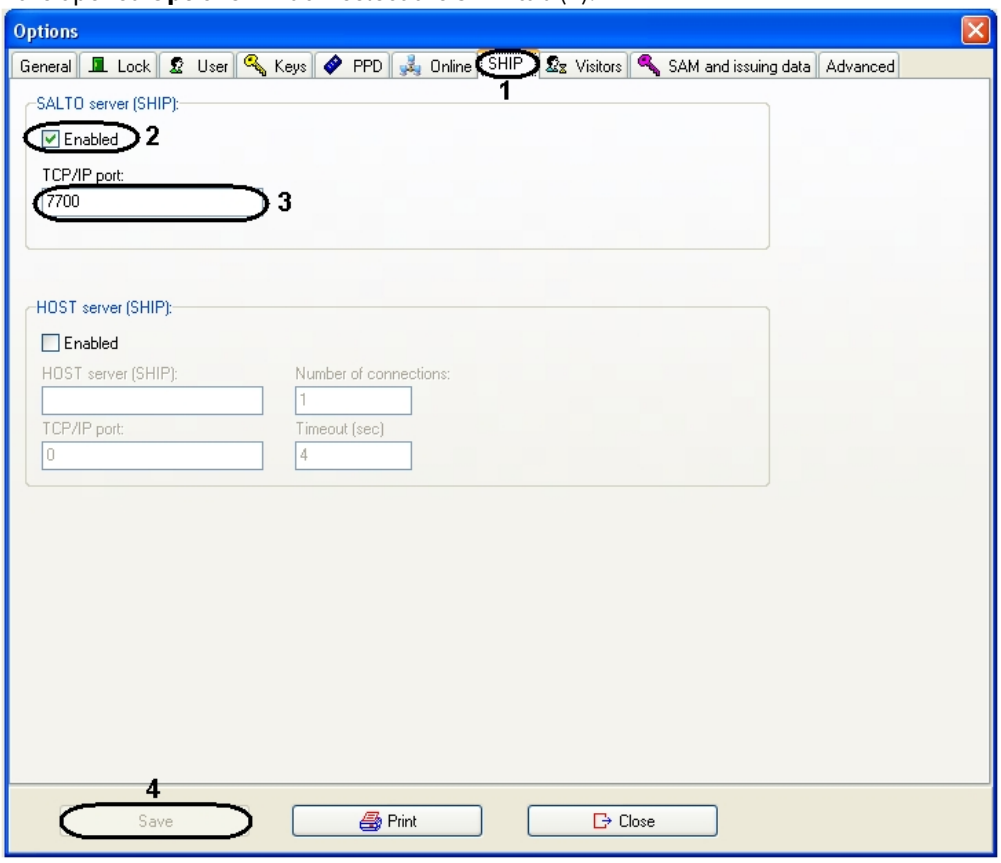
4.2.3 Configuration of a SHIP port

To configure the SHIP port, do the following steps:

1. In the **Tools** menu, select **Configuration -> General options**.



2. In the opened **Options** window select the **SHIP** tab (**1**).



3. Set the **Enabled** checkbox (**2**).
4. In the **TCP/IP port** field, enter the port number for data transfer via SHIP (**3**).
5. To save changes click **Save** (**4**).

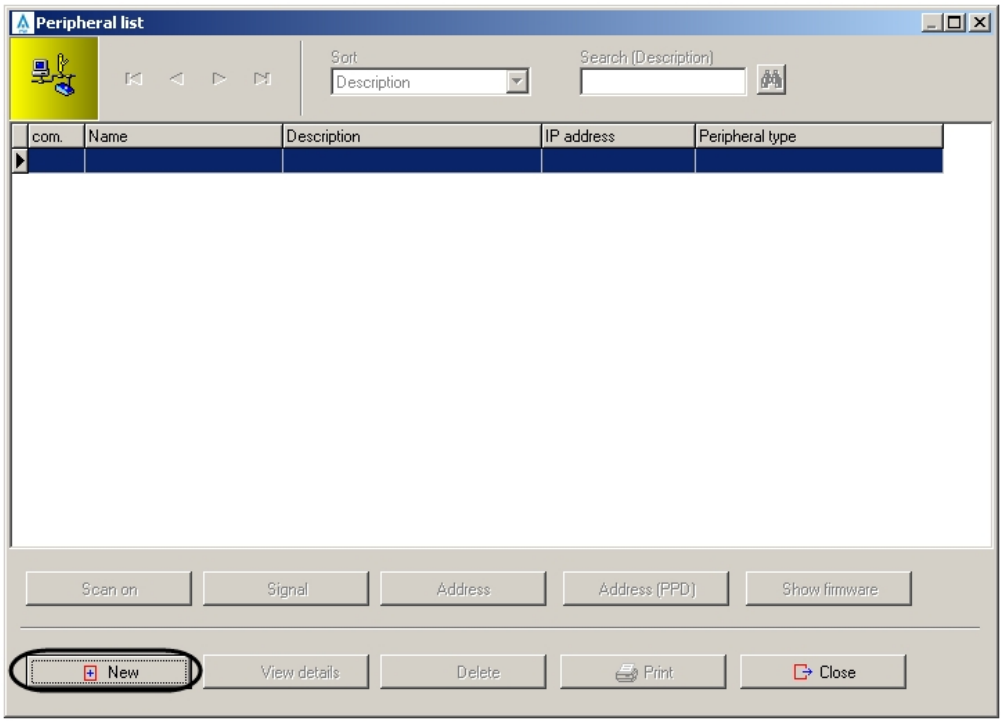
SHIP port configuration is completed.

4.2.4 Adding peripherals

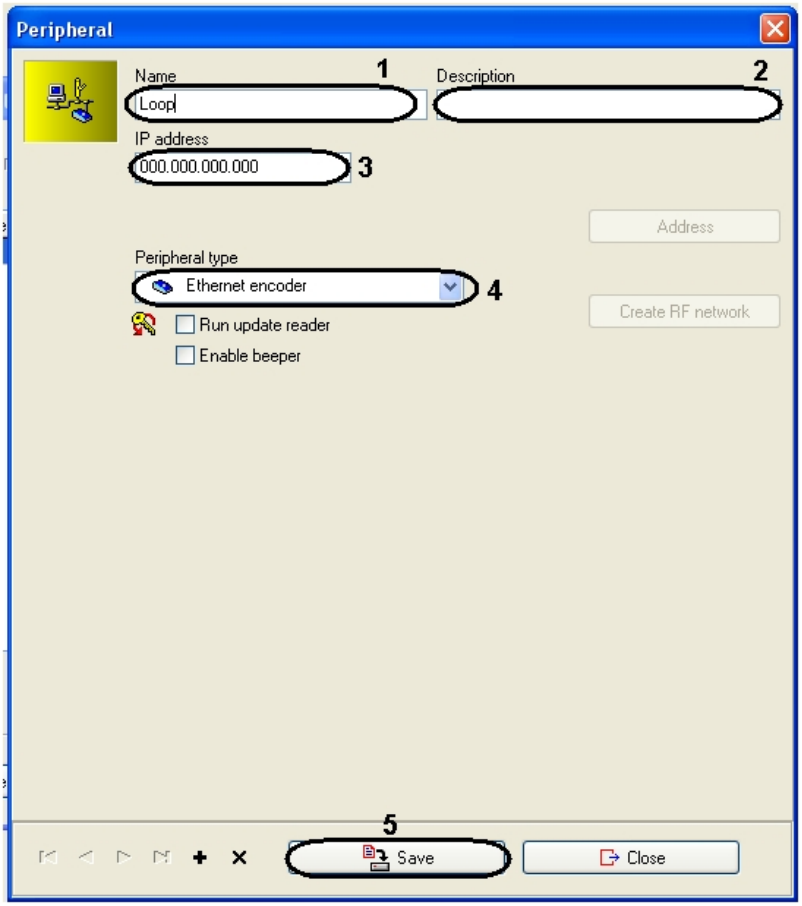
To add peripherals like controllers or gates, do the following steps:

1. In the **Peripherals** menu, select **Peripheral list**.

2. To add the device click **New**.

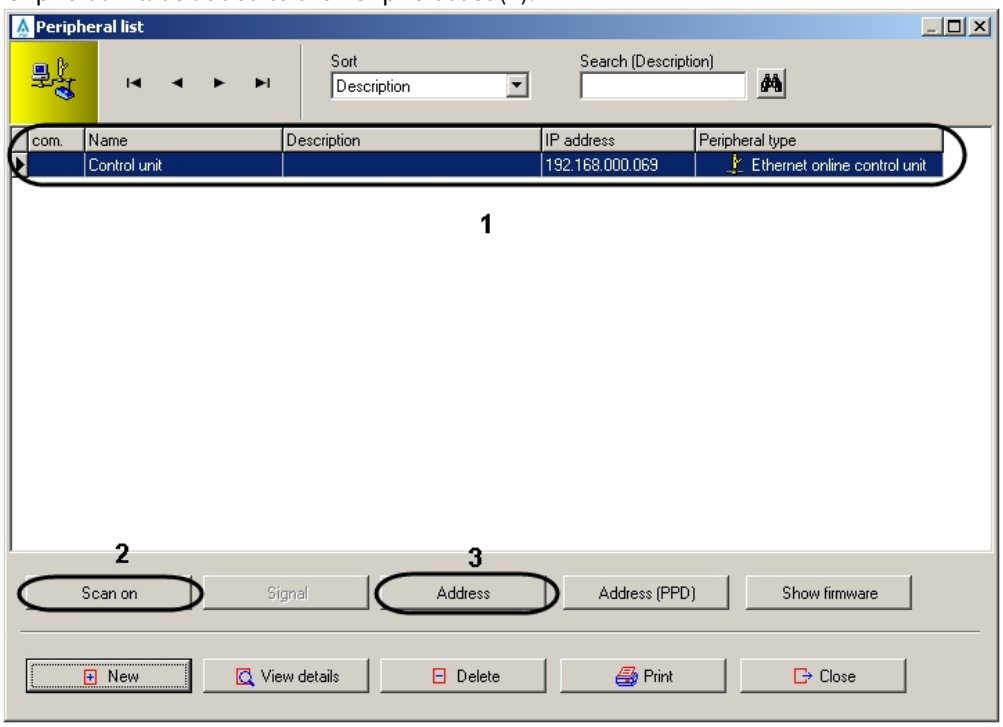


3. The **Peripheral** window opens.

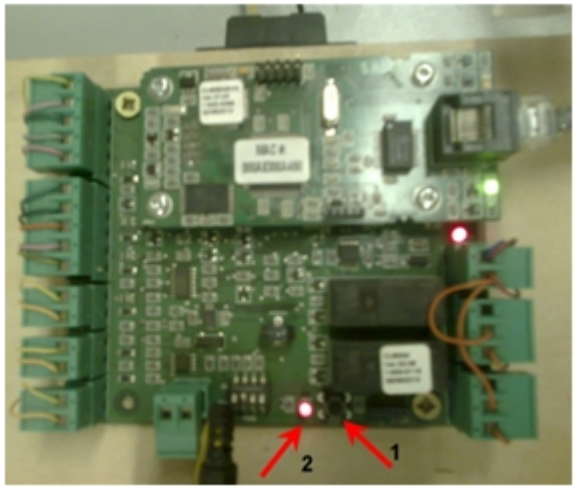


4. In the **Name** field, enter a name of added device (**1**).
5. In the **Description** field, enter information about this device (**2**).
6. In the **IP address** field, enter an IP address of device (**3**).
7. From the **Peripheral type** drop-down list, select a type of the connected device (**4**).
8. To save changes click **Save** (**5**).

9. Peripheral will be added to the Peripheral list (**1**).



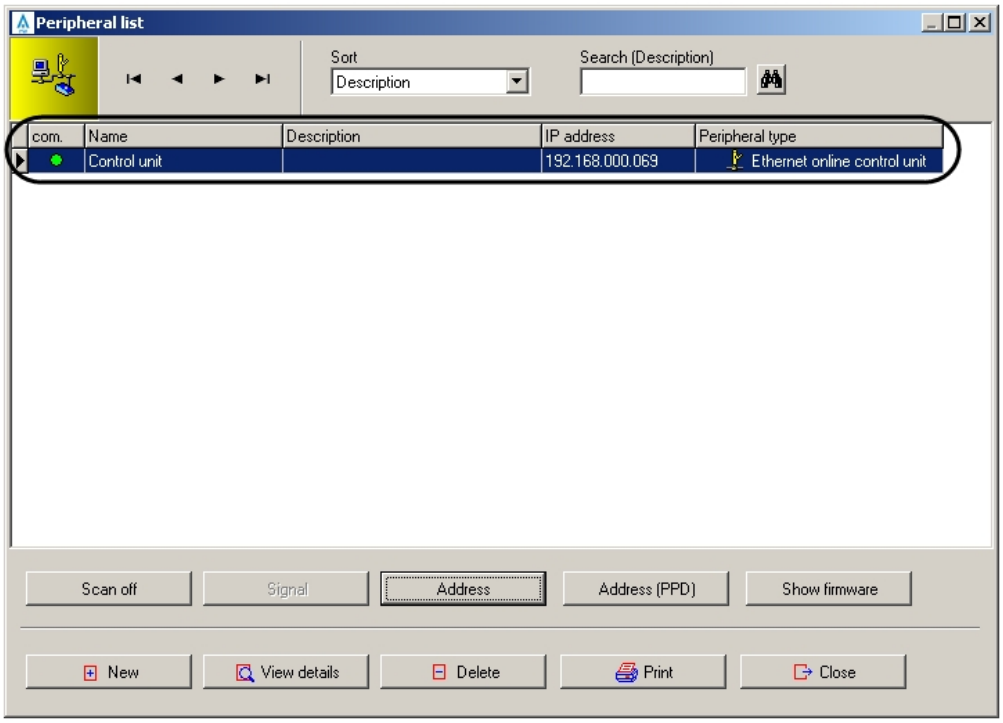
10. To set the connection to the online controller do the following:
    a. Click **Scan on** (**2**).
    b. Press tamper on the peripheral card (**1**).



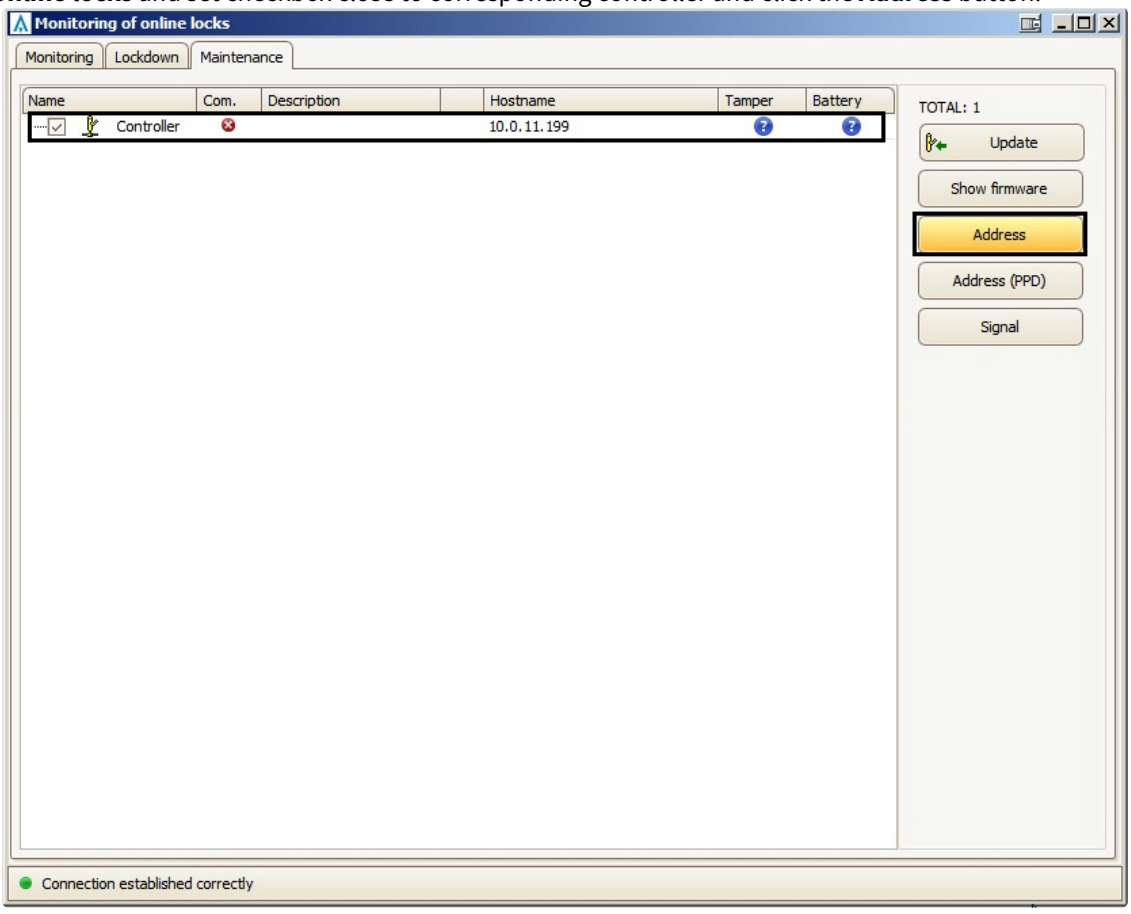
    c. Wait when the indicator near the tamper starts flashing (**2**).

> **Note.**
>
> Open the device case for access to temper.

    d. Click **Address** (**3**). If the connection established, indicator will be displayed in the **com.** column.



On default the **Address** button is inactive. To specify address select the **Peripherals -> Monitoring of online locks** and set checkbox close to corresponding controller and click the **Address** button.



Adding a peripheral is completed.

4.2.5 Configuration of wireless locks

Procedure of configuring wireless locks

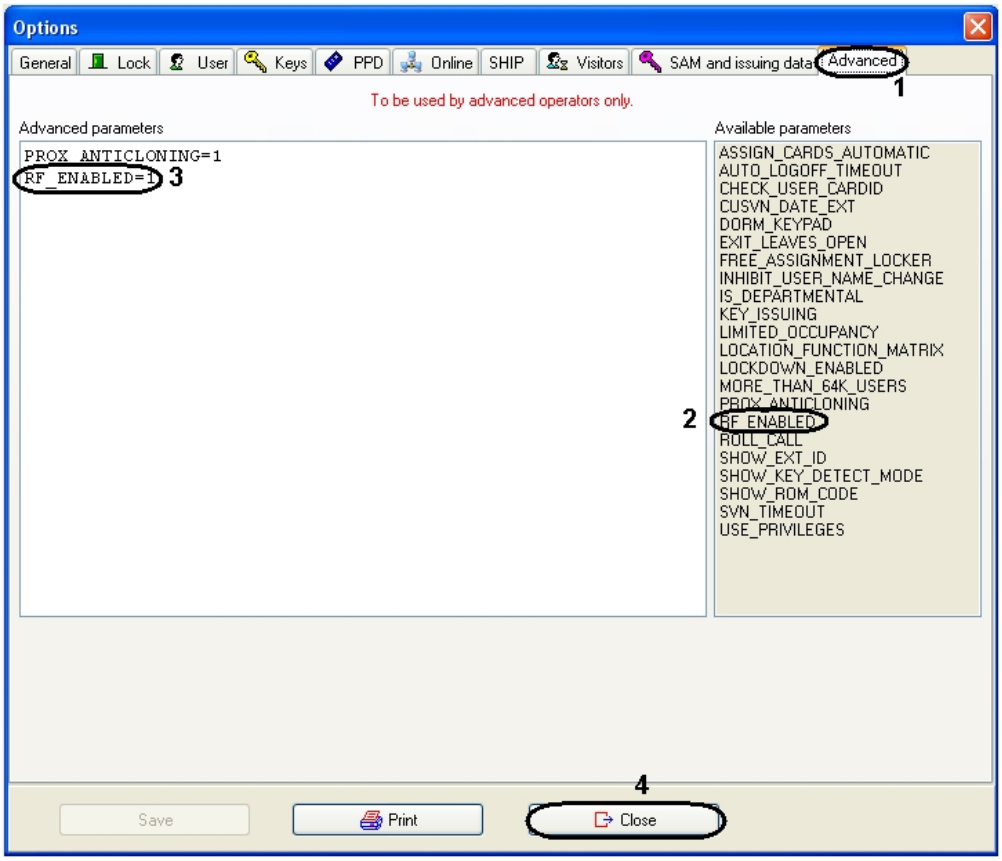
Configuration of the wireless locks in the SALTO ACS vendor software is done in the following order:

1. Wireless locks activation in the system.
2. Wireless locks creation.
3. Wireless locks initialization.

Wireless locks activation in the system

To use the wireless locks, set the SALTO ACS vendor software as follows:

1. In the **Tools** menu, select **Configuration -> General options**.
2. Select the **Advanced** tab (**1**).



3. In the **Available parameters** list select the **RF_ENABLED** object and double click it (**2**).
4. Parameter will be added to the **Advanced parameters** list (**3**).
5. Click **Close** to hide the **Options** window (**4**).

As a result of wireless locks activation the **RF-lock** door type can be specified in the door settings (see chapter Wireless lock creation).

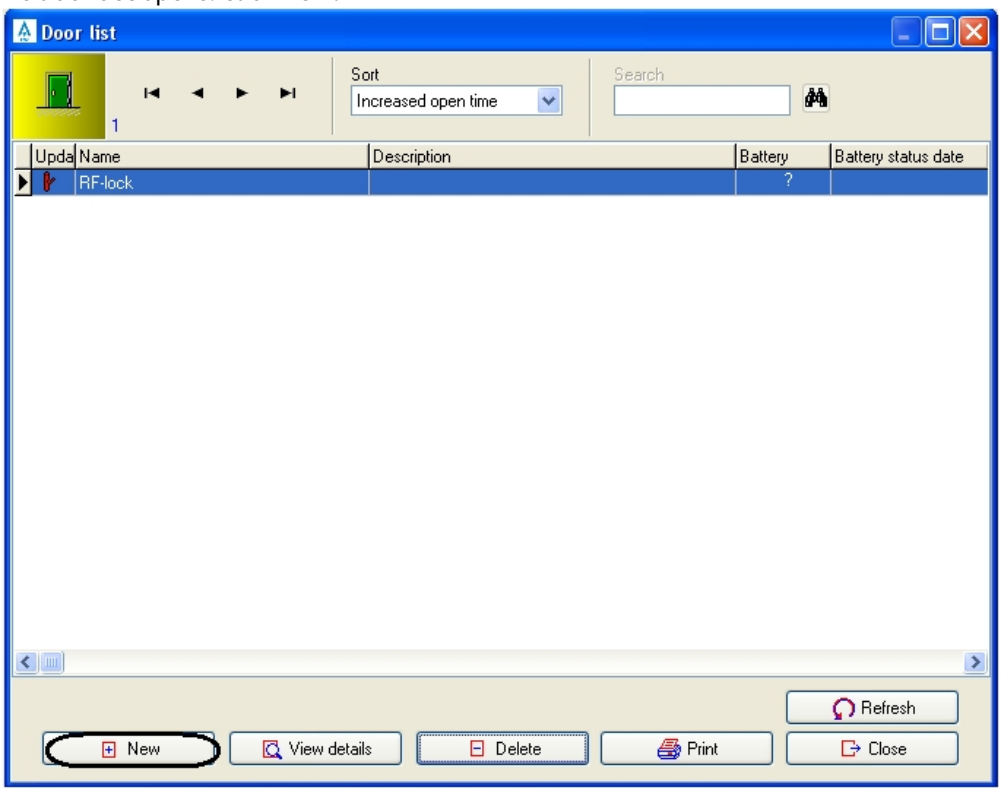
The RF-locks switching is completed.

Wireless lock creation

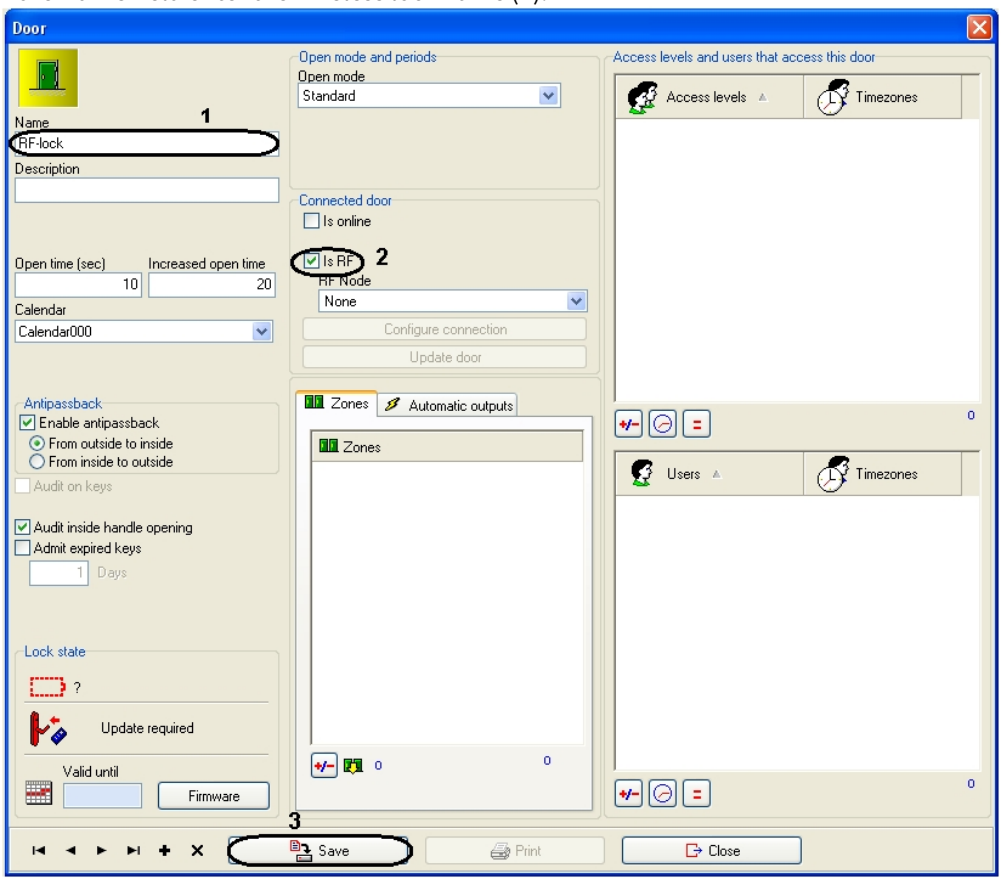
For wireless locks creation, do the following steps:

1. Click the **Doors** button.

2. The **door list** opens. Click **New.**



3. In the **Name** field enter the wireless lock name (**1**).



4. Set the **Is RF** checkbox (**2**).
5. Click **Save** to save changes (**3**).

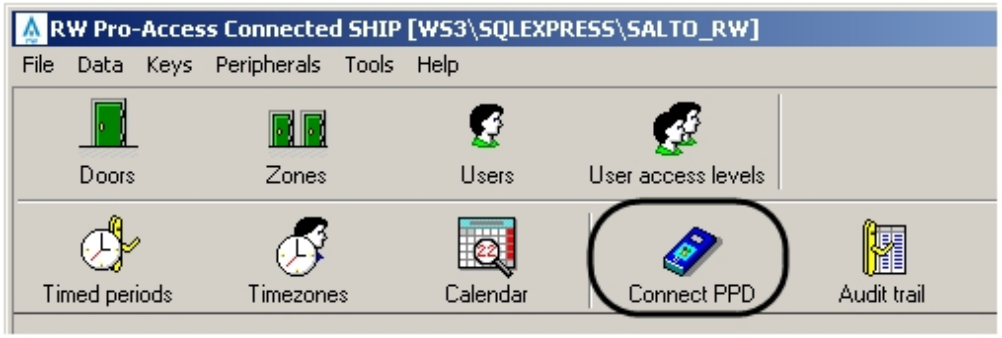
Wireless lock will be added to the door list.

Wireless lock creation is completed.

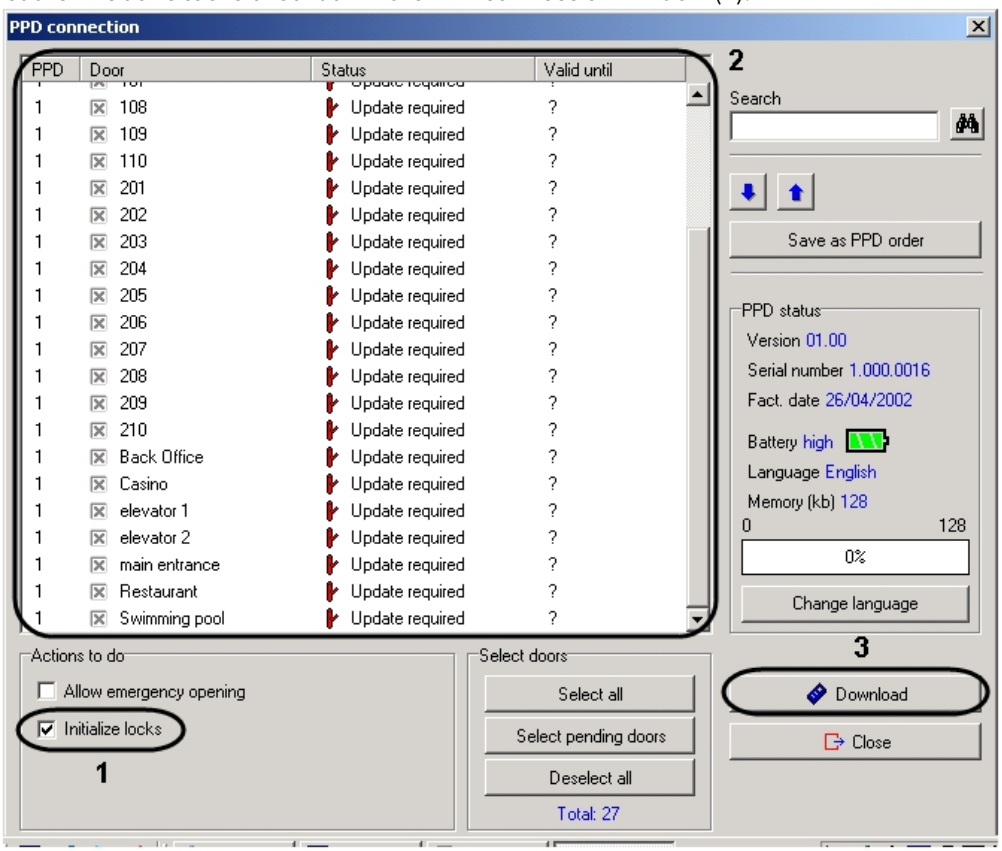
Wireless locks initialization

Wireless locks are initialized through the following steps:

1. Connect *PPD* to USB-port.
2. Click **Connect PPD**.The ***PPD* connection** window opens.



3. Set the **Initialize locks** checkbox in the ***PPD* connection** window (**1**).



> **Note.**
>
> If the **Initialize locks** checkbox is not set, then the **INITIALIZE LOCKS** object is not available in the PPD menu.

4. Select the connected wireless locks (**2**).

> **Note.**
>
> It is not essential to initialize all doors simultaneously but it's not recommended to postpone the door initialization.

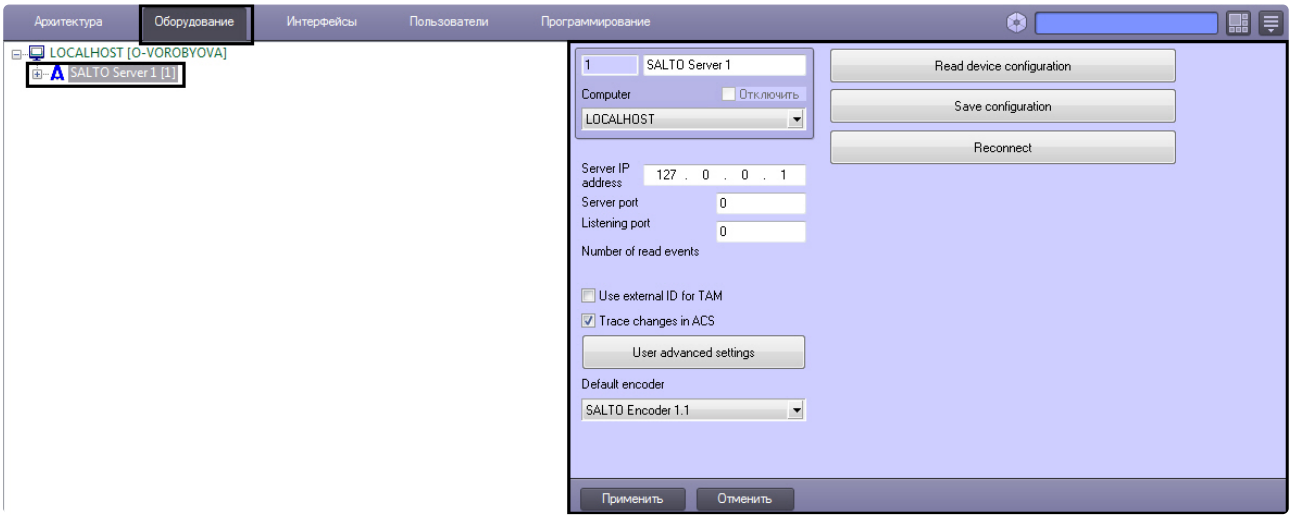
5. Click **Download** (**3**). Wait while the data transfer to *PPD* will be completed.
6. Disconnect the *PPD* from the USB-port.
7. Turn on *PPD* and go to the device main menu.
8. In the *PPD* menu select **INITIALIZE LOCKS**.
9. In the *PPD* menu select the name of the initialized lock.
10. Connect the *PPD* to wireless lock.
11. Wait for the sound signal. It means that the lock receives information from *PPD* and gives its identifier to *PPD*.
12. Disconnect the *PPD* from the wireless lock.
13. Repeat steps 8-12 for all locks to be initialized.
14. Connect the *PPD* to the USB-port.
15. Click **Connect PPD**. Information about locks is sent to the software. Locks are connected to the gate.

Wireless locks initialization is completed.

4.3 Configuration of SALTO ACS in ACFA PSIM software package

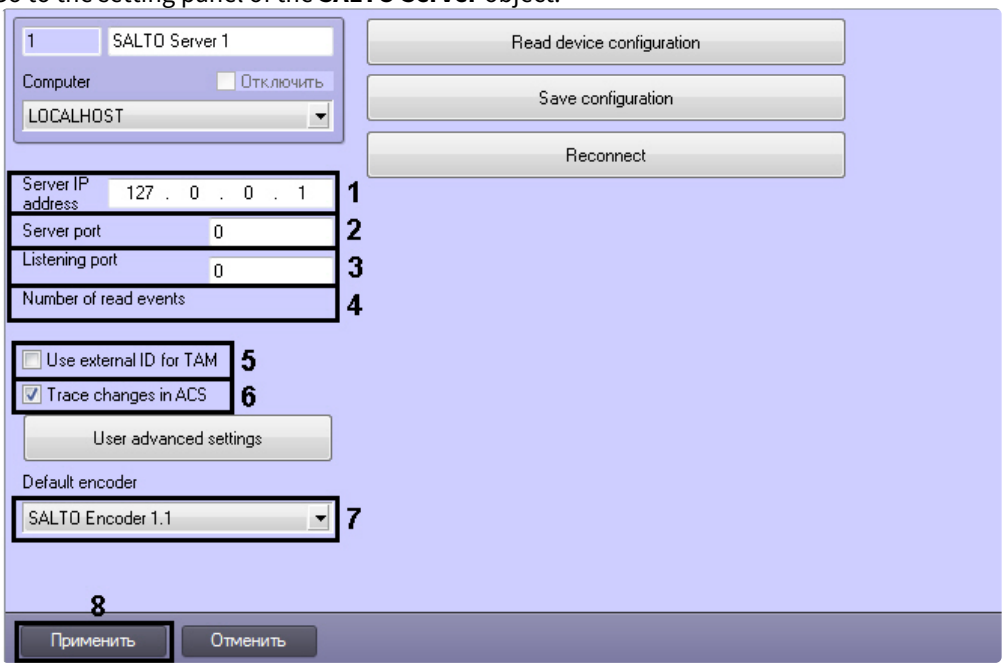
4.3.1 Configuration of SALTO ACS connection to ACFA PSIM software package

Configuration of the SALTO ACS connection to *ACFA PSIM* software package is performed on the setting panel of the **SALTO Server** object. This object is created on the basis of the **Computer** object on the **Hardware** tab of the **System settings** dialog box.



To configure the connection of *SALTO ACS* to *ACFA PSIM* software package do the following:

1. Go to the setting panel of the **SALTO Server** object.



2. In the **Server IP-address** field set the IP address of computer on which *SALTO ACS* software is installed (**1**).
3. In the **Server port** field set the TCP/IP port address of *SALTO* integration module connection to *SALTO ACS* software which is designed for transferring data by SHIP-protocol while configuring the vendor software (**2**).
4. In the **Listening port** field set the port to which the queries of *SALTO ACS* software will be forwarded (**3**).

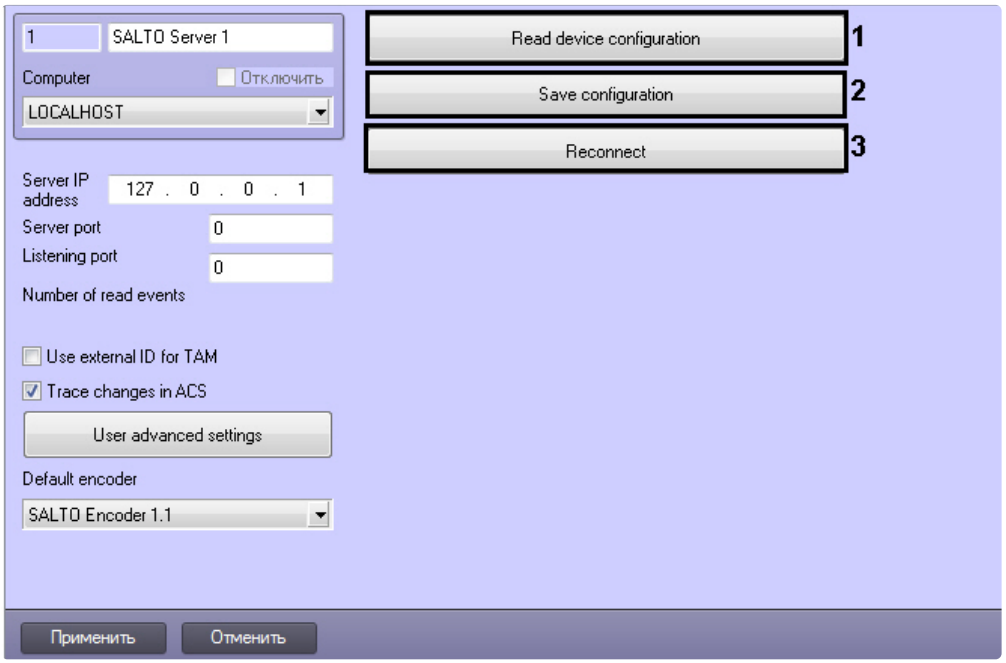
5. In the **Number of read events** field enter the number of events read from the *SALTO ACS* software for one system query (**4**).
6. Set **Use external ID for TAM** checkbox to use external user ID while searching users for getting information about passes (**5**). If checkbox is not set the user ID in the *Axxon PSIM* software package will be in use.
7. Set **Trace changes in ACS** checkbox for automatic forwarding of user changes, time schedules and access levels to *SALTO ACS* software (**6**).
8. From the **Default encoder** drop-down list select the encoder which will be used on default (**7**).
9. To save changes click **Apply** (**8**).

> **Note.**
>
> To cancel changes click **Cancel**.

Configuration of *SALTO ACS* connection to *ACFA PSIM* software package is completed.

4.3.2 Downloading and saving of SALTO ACS configuration

Downloading of *SALTO ACS* configuration is performed on the setting panel of the **SALTO Server** object.



To download *SALTO ACS* configuration click **Read device configuration** (**1**).

As a result new objects appear in the object tree of *ACFA PSIM* software package.

To record configuration in *SALTO ACS* software click **Save configuration** (**2**).

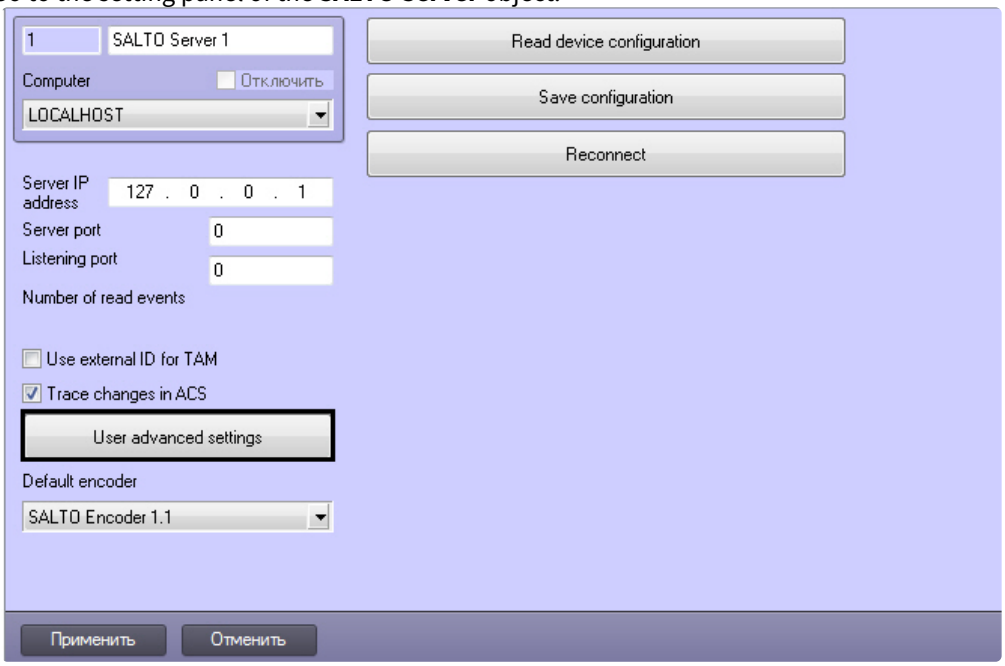
> **Note.**
>
> Depending on configuration of SALTO ACS vendor software users access cards updating can be necessary after configuration record (see chapter Assigning access cards of SALTO ACS).

To connect to the *SALTO ACS* software again click the **Reconnect** button (**3**).

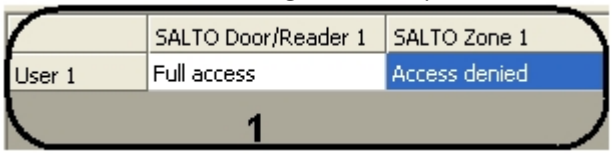
4.3.3 Extended configuration of SALTO ACS user access level in ACFA PSIM

SALTO ACS software package allows specifying access levels separately for all registered users in the controller system or zone through the following steps:

1. Go to the setting panel of the **SALTO Server** object.



2. Click **User advanced settings**.
3. The **Advanced user settings** window opens.



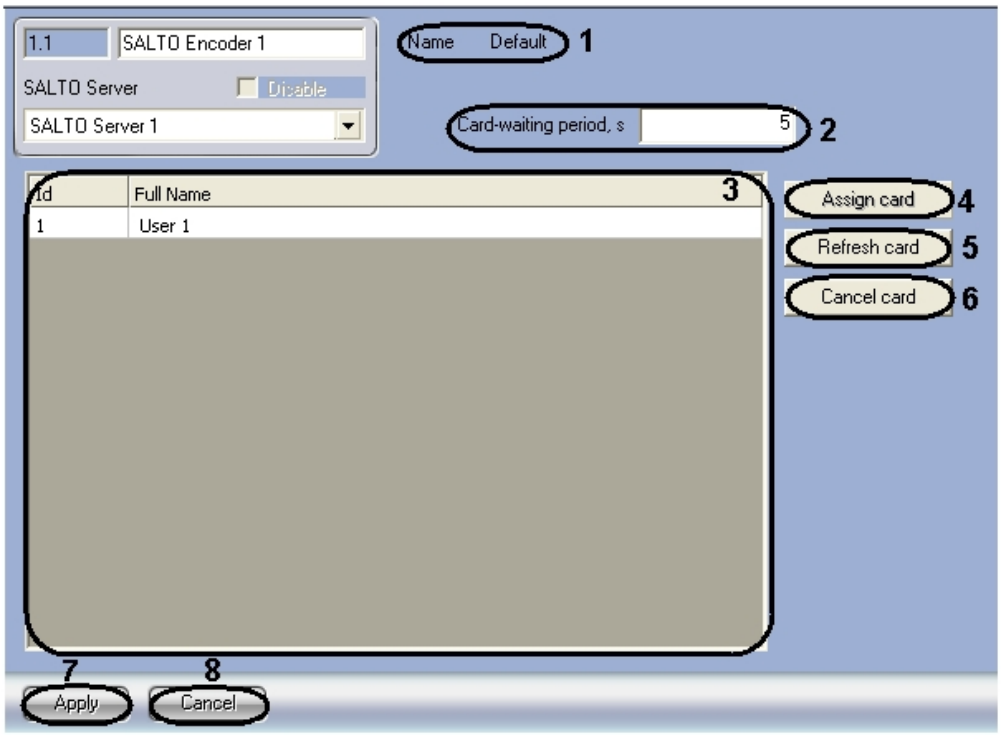
4. Select the required access level through the peripheral in the appropriate drop-down list for all registered users (**1**).
5. To save changes click **Apply** (**2**).

> **Note.**
>
> Click **Cancel** to close **Advanced user settings** window without saving changes (**3**).

Access levels are assigned to users.

4.3.4 Assigning access cards of SALTO ACS

Assigning access cards of SALTO ACS is performed on the setting panel of the **SALTO Encoder** object. This object is created on the basis of the **SALTO Server** object while downloading *SALTO ACS* configuration (see chapter Downloading and saving of SALTO ACS configuration of this documentation).



Attention!

Assigning access cards of *SALTO ACS* is impossible in case when the **Encoder** object is created manually in *ACFA PSIM* software package.

To assign access cards of *SALTO ACS* do the following:

1. In the **Card-waiting period, s** field set time (in seconds) that specifies the time interval after clicking **Assign card** or **Refresh card** and that is for bringing access card to encoder (**2**).

   Note.

   In the **Name** field the name of encoder object in *SALTO ACS* software is specified (1).

   Note.

   In the 3 field the users created in *ACFA PSIM* software package are displayed (3).

2. To assign the access card to the user select necessary user in the **3** field click **Assign card** and bring the access card to the encoder during the period specified in the **Card-waiting period** field (**4**).
   Attention! For correct access cards' assigning it's necessary to register users without using Russian symbols.
3. To assign the new access card to the user select necessary user in the **3** field click **Refresh card** and bring the access card to the encoder during the period specified in the **Card-waiting period** field (**5**).
4. To cancel the access card to the user select necessary user in the **3** field click **Cancel card** (**6**)

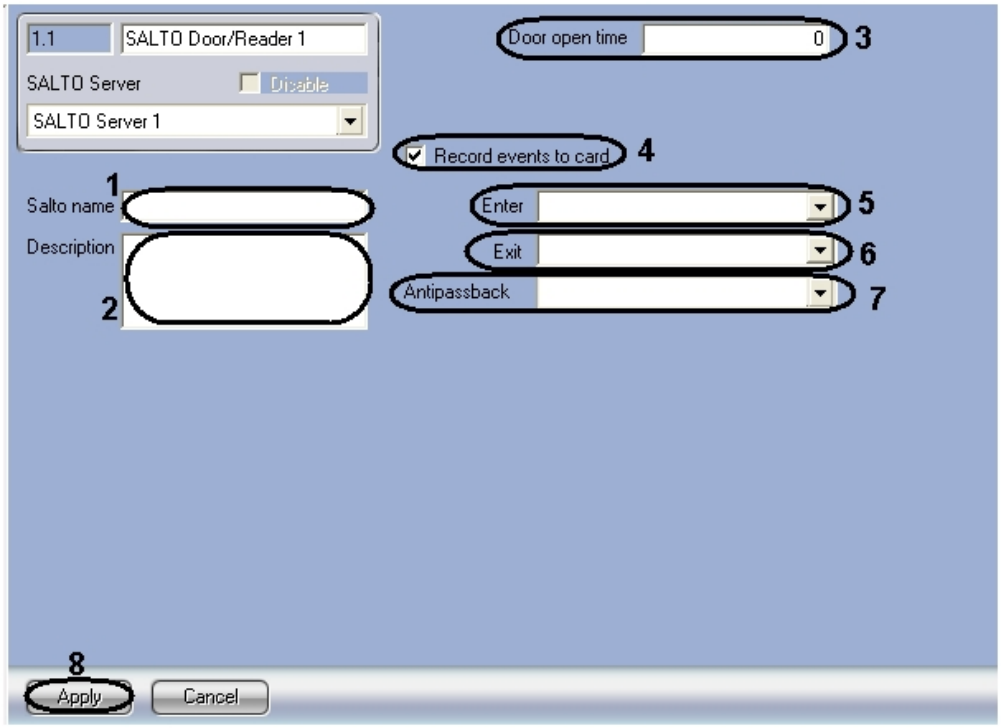
5. To save changes click **Apply** (**7**).

> **Note.**
>
> To cancel changes click **Cancel** (8).

Assigning access cards of SALTO ACS is completed.

4.3.5 Configuration of SALTO ACS doors

Configuration of SALTO ACS doors is performed on the setting panel of the **Door/Reader** object. This object is created on the basis of the **SALTO Server** object while downloading *SALTO ACS* configuration (see chapter Downloading and saving of SALTO ACS configuration of this documentation).



To configure SALTO ACS doors do the following:

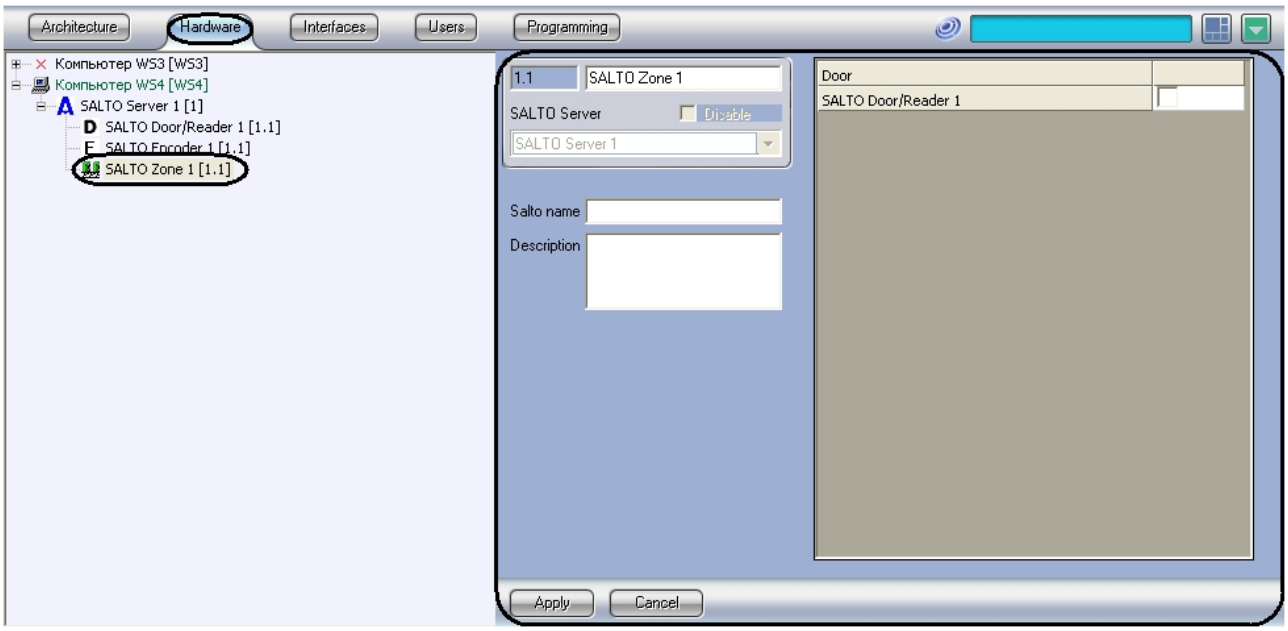
1. In the **Name** field set the name of the door (**1**).
2. In the **Description** field set the description of the door (**2**).
3. In the **Door open time** field set time (in seconds) that specifies the time interval from the moment of door opening by the user till the moment of its automatic closing (**3**).
4. Set the **Record events to card** checkbox if it's necessary to record **Access forbidden** and **Access permitted** events to the access card of the user who showed (**4**).
5. From the **Enter** drop-down list select the **Partition** object name corresponding to the area which is located in the site of exit through this door (**5**).
6. From the **Exit** drop-down list select the **Partition** object name corresponding to the area which is located in the site of enter through this door (**6**).
7. From the **Antipassback** drop-down list select the value to enable or disable the antipassback (**6**).
8. To save changes click **Apply** (**6**).

> **Note.**
>
> To cancel changes click **Cancel** (7).

Configuration of SALTO ACS doors is completed.

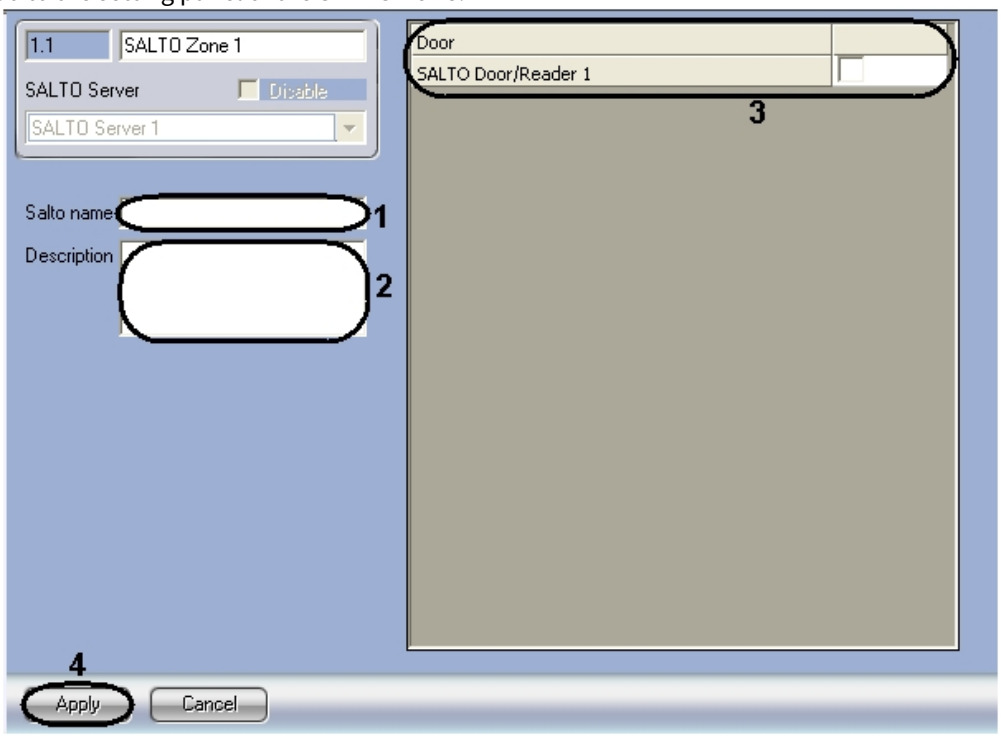
4.3.6 Configuration of SALTO ACS zones

Configuration of SALTO ACS zones is performed on the setting panel of the **SALTO Zone** object. This object is created on the basis of the **SALTO Server** object while downloading *SALTO ACS* configuration (see chapter Downloading and saving of SALTO ACS configuration).



To configure SALTO ACS zones do the following:

1. Go to the setting panel of the **SALTO Zone**.



2. In the **Salto name** field enter the zone name which will be specified to the object in SHIP (**1**).
3. In the **Description** field set the description of the zone (**2**).
4. Select doors which are included in configurable zone (**3**).
5. To save changes click **Apply** (**6**).

Configuration of SALTO ACS zone is completed.

5 Operation of the SALTO integration module

5.1 General information about SALTO module operation

The following interface objects are used in order to operate the *SALTO* integration module:

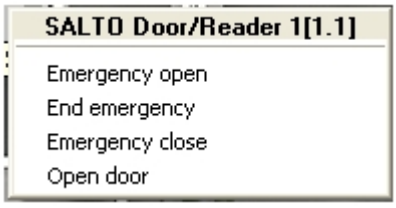
1. **Map**.
2. **Event viewer**.
3. **Access Manager**.

Information about these interface objects setting is given in the Axxon PSIM Software Package Administrator's Guide and in the Access Manager Module Settings and Operation Guide.

Operation of interface objects is given in details in the Axxon PSIM Software Package Operator's Guide.

5.2 SALTO door control

Door control of the *SALTO* integration module is performed in the interactive **Map** window through the functional menu of the **SALTO Door** object.



Functional menu description of the **SALTO Door** object:

Functional menu command	**Performed function**
Emergency open	Emergency door opening. After emergency door opening the door is not closed automatically.
End emergency	Emergency door mode changes to normal.
Emergency close	Emergency door closing. After emergency door closing the door is blocked and closed and can't be opened.
Open door	Door opening. After it door will be automatically closed in time specified in the **Door opening time** field (see chapter Configuration of SALTO ACS doors).