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Integration & Installation Manual  
Genetec Security Center & 2N® IP Intercoms and Access Units





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## Summary

Integration Overview.....	2
Call Settings .....	3
Audio and Video calls to Omnicast.....	8
Access Logs - Synergis.....	13
Manual Installation - Surface module mounting.....	23
Configuration.....	29

## Integration Overview

2N IP Intercoms can be seamlessly connected directly to all core systems of Genetec™ Security Center using different protocols.

Description of included hardware, software and licences

- 2N IP Verso – Main unit with camera
- RFID Card Reader 13.56 MHz NFC
- Touch display - Phone book, touch keypad for access code entry
- 2 or 3 Module Frame for surface installation
- Firmware version 2.24.1 or higher
- License: Enhanced Video License (Please request at [integrations@2n.cz](mailto:integrations@2n.cz))

Integrated Genetec modules that must be installed:

- Omnicast
- Synergis
- Sipelia

Integration scenarios to be shown:

- Video calls from 2N IP Intercom to the Security Center
- Video streaming to Omnicast
- Door control from Security Center
- Notifications when a cardholder authenticates
- Access and Event logs in Security Center

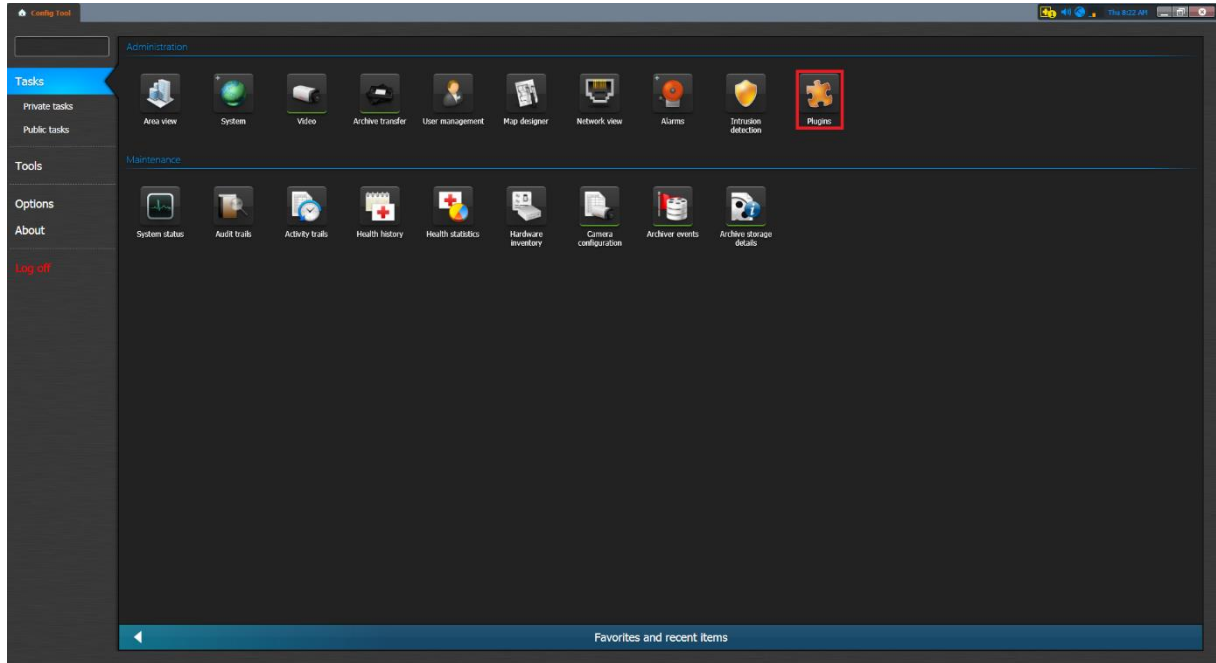
Contact persons:

Business & Technical questions: [integrations@2n.cz](mailto:integrations@2n.cz)

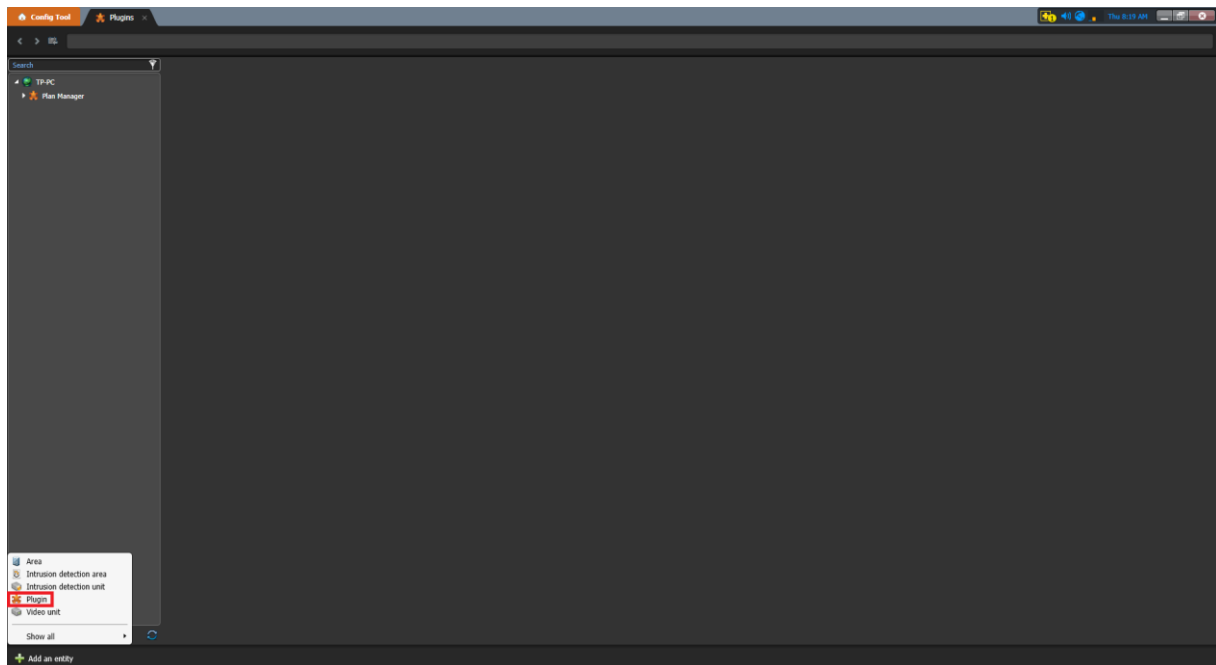
## SIP Call Settings

Genetec Sipelia Settings

Open Config Tool and select the Plugins task.

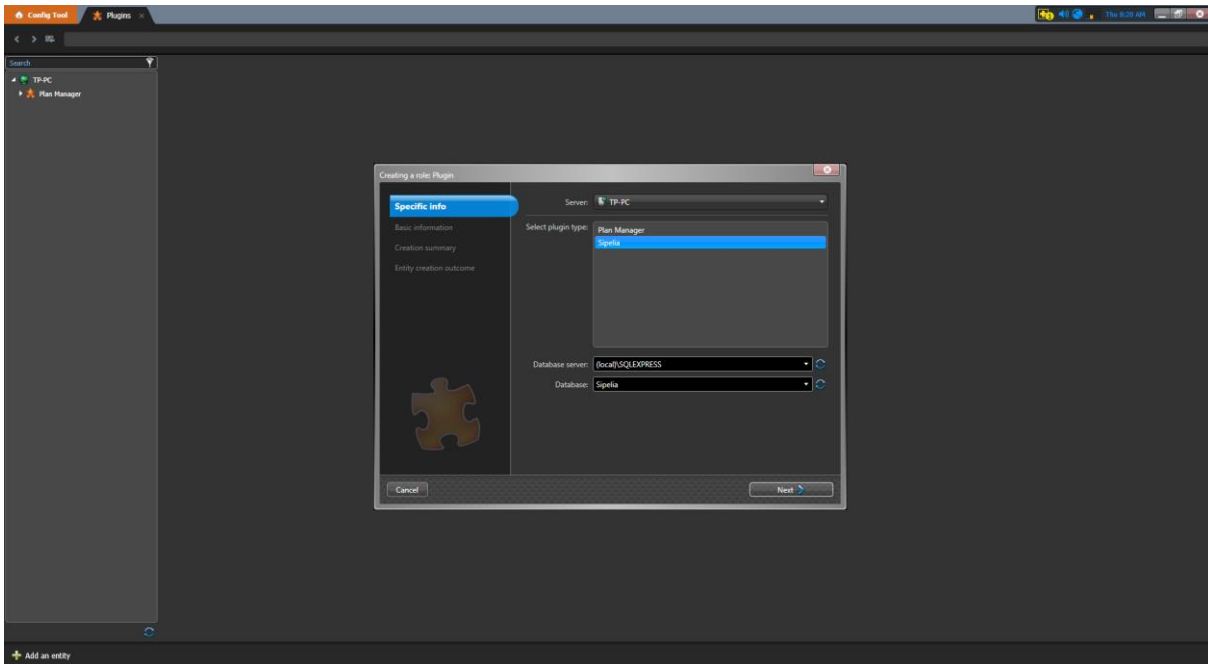


Then click Plugin .

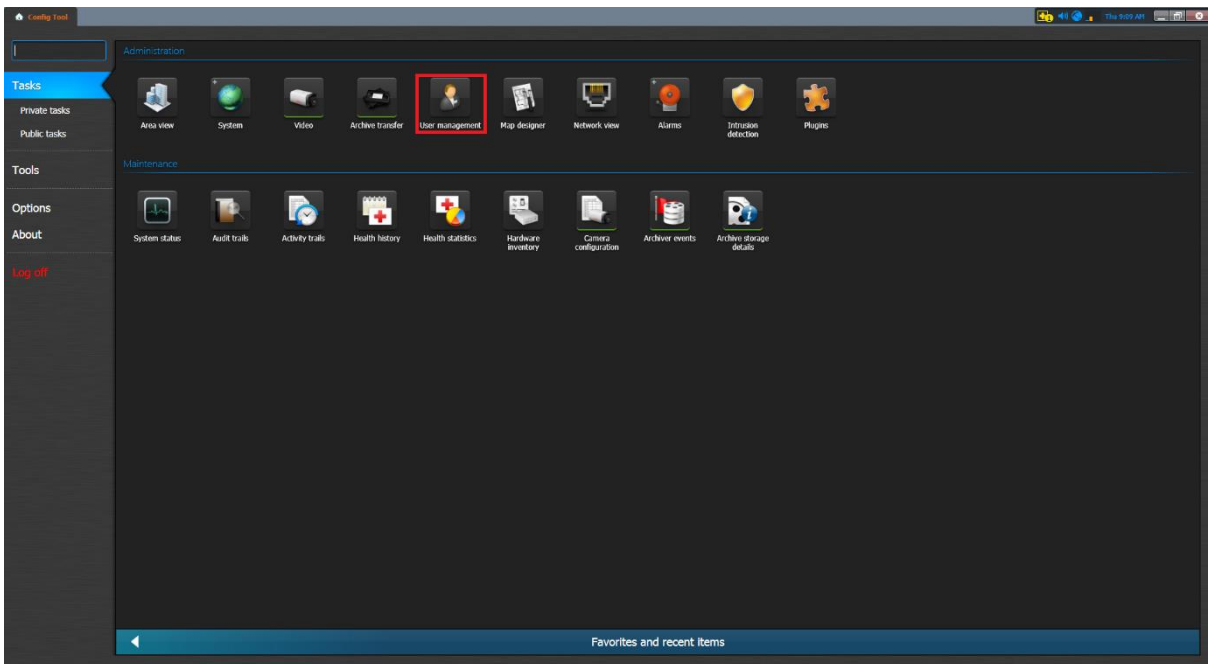


The Creating a role: Plugin wizard appears. In the Server drop-down list, select the server that is going to host the Sipelia Server role. In the Select plugin type field, select Sipelia. Enter the values for Database server and Database for the Sipelia database or use the default values which are already provided. Click Next, enter the entity name and description, and then select the desired partition for this role. Click Next

and check that the information that you have entered is correct. Click Create, and then click Close. Sipelia appears in the list of Plugin roles. It might take a few minutes for the role to create its database.

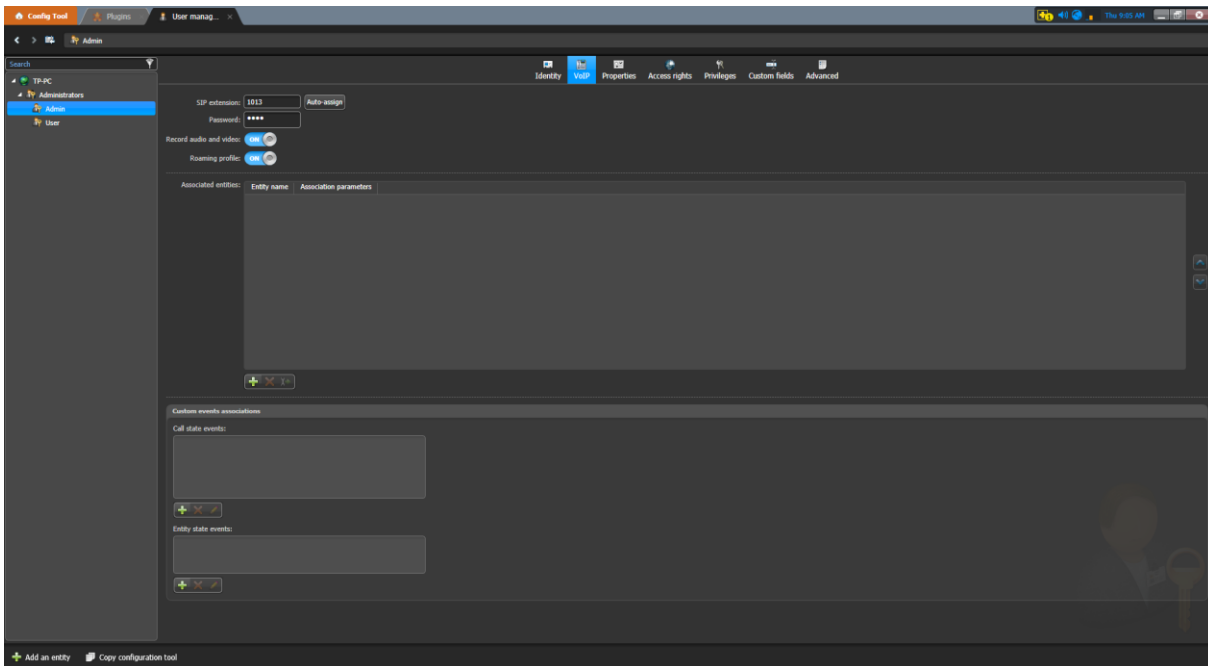


To allow Security Center users to communicate with one another using the SIP-related controls in Security Desk, you must configure a SIP account for each of your users and assign the appropriate privileges. Open the User Management task.

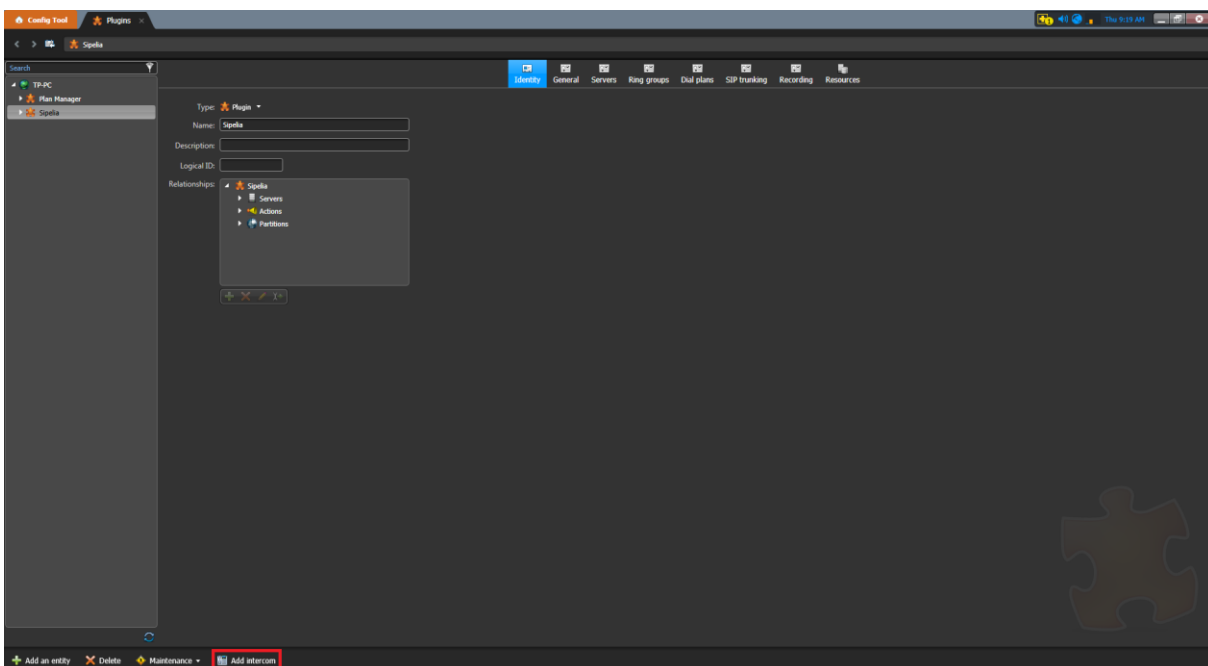


Select a user from the list. Click the VoIP tab to set up this SIP entity as a SIP endpoint. Assign a SIP extension to your SIP entity in one of the following ways: Click Auto-assign. Auto-assign automatically assigns the SIP entity the next available phone extension in a given range. As a result, it is the recommended

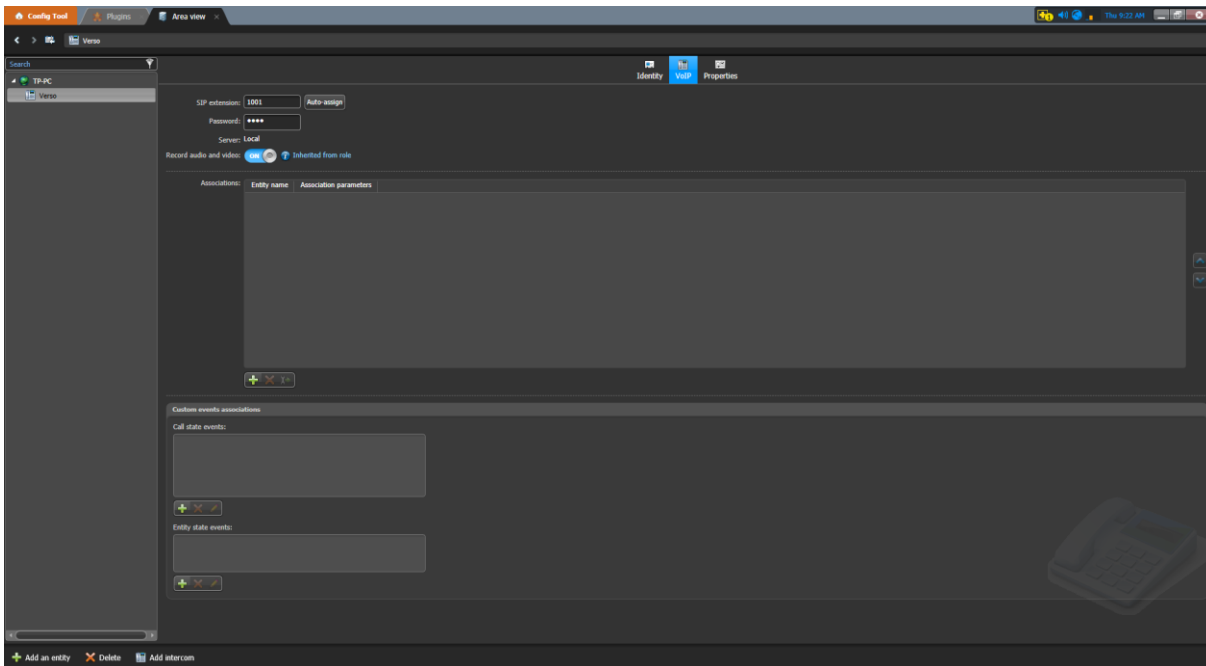
way of assigning a SIP extension to users, ring groups, and SIP intercoms. Simply click this button, choose an existing range, and then click Apply. Set the following: Record audio and video: Allows you to record the call sessions that the SIP entity participates in (either caller or recipient of a call). Once recorded, sessions can later be reviewed and exported through the Call report task. The default value is inherited from the global recording settings which are found on the Recording page of the Sipelia Plugin role. Changing this setting at the entity level forces the entity to no longer inherit the value from the global setting, thus allowing you to turn recording on or off for only specific entities, without affecting all of them. Click Apply.



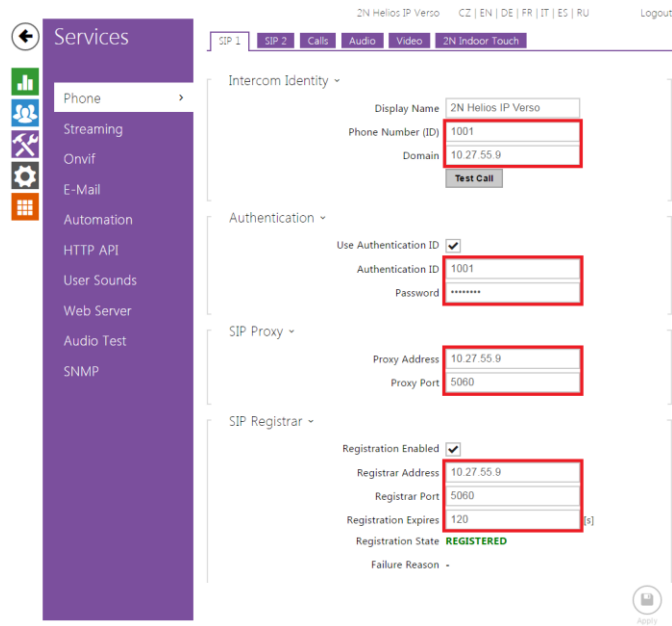
To add a SIP intercom: Open the Plugins task. Select the Sipelia Plugin role. At the bottom of the page, click Add intercom.



Enter a descriptive name for your SIP intercom, and then click Add. The Logical view task opens, and the intercom you added appears in the list of entities. Click the VoIP tab to set up this SIP entity as a SIP endpoint. Assign a SIP extension to your SIP entity in one of the following ways: Click Auto-assign. Auto-assign automatically assigns the SIP entity the next available phone extension in a given range. As a result, it is the recommended way of assigning a SIP extension to users, ring groups, and SIP intercoms. Simply click this button, choose an existing range, and then click Apply. Set the following: Record audio and video: Allows you to record the call sessions that the SIP entity participates in (either caller or recipient of a call). Once recorded, sessions can later be reviewed and exported through the Call report task. The default value is inherited from the global recording settings which are found on the Recording page of the Sipelia Plugin role. Changing this setting at the entity level forces the entity to no longer inherit the value from the global setting, thus allowing you to turn recording on or off for only specific entities, without affecting all of them. Click Apply. Add additional SIP intercoms by repeating the steps above.

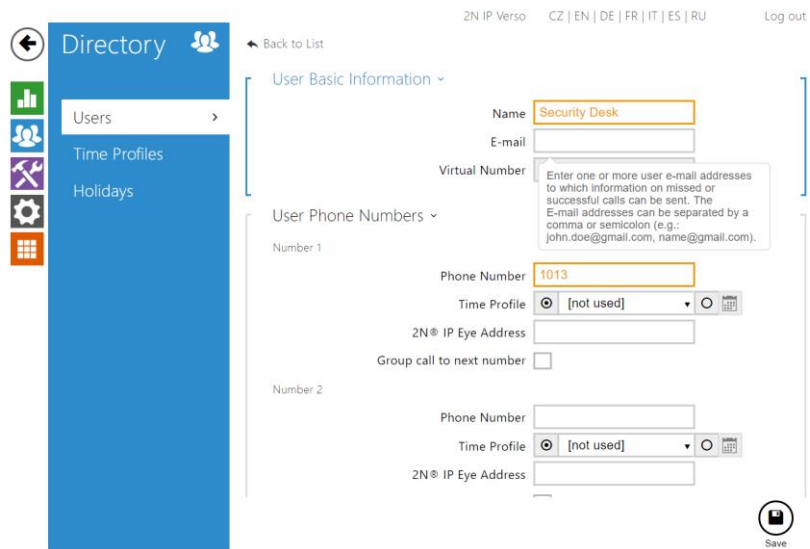


To register the intercom to the created extension, open the web interface of the intercom. How to connect to the web interface is described in the last chapter [Configuration](#). Then go to Service – Phone – SIP 1 and fill Intercom Identity – Authentication – SIP Proxy – SIP Registrar and save settings

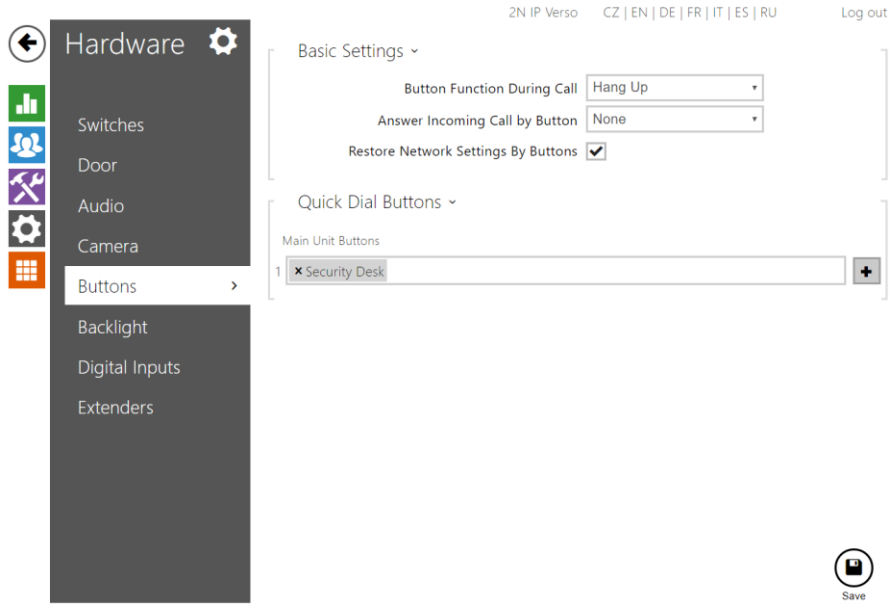


Use the IP address of the Sipelia server. The default password of the extension created in Genetec is 1234.

Then create a contact in the intercom with the number of the Security desk user.



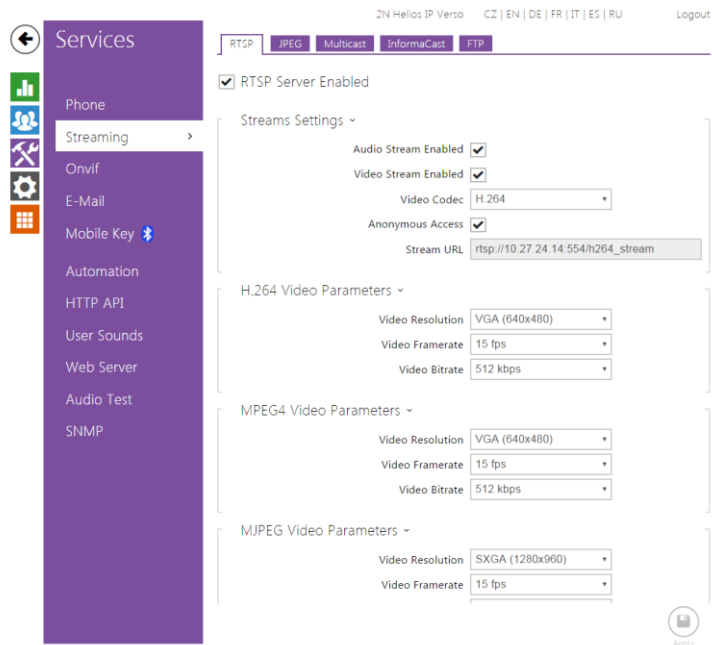
And assign it to the main button.



## Audio and Video to Omnicast

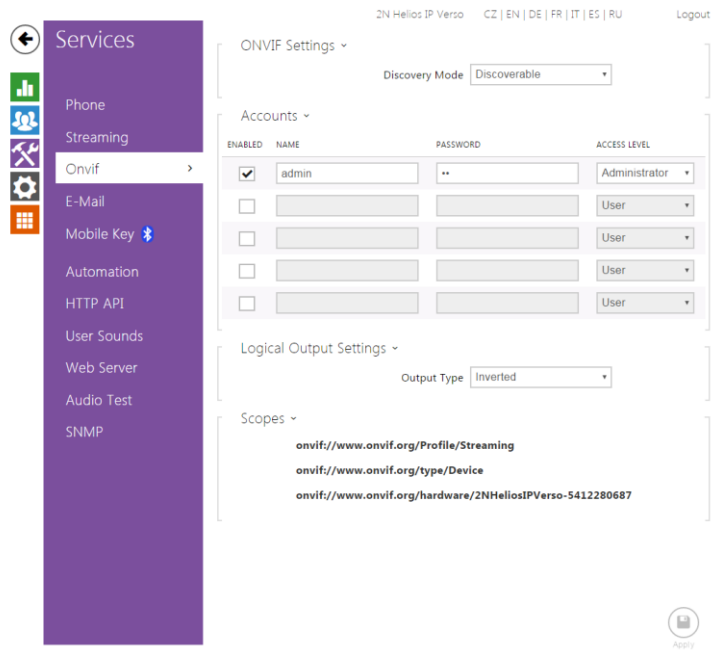
### Scan Device

First, enable parameter RTSP Server Enabled in menu Services / Streaming.

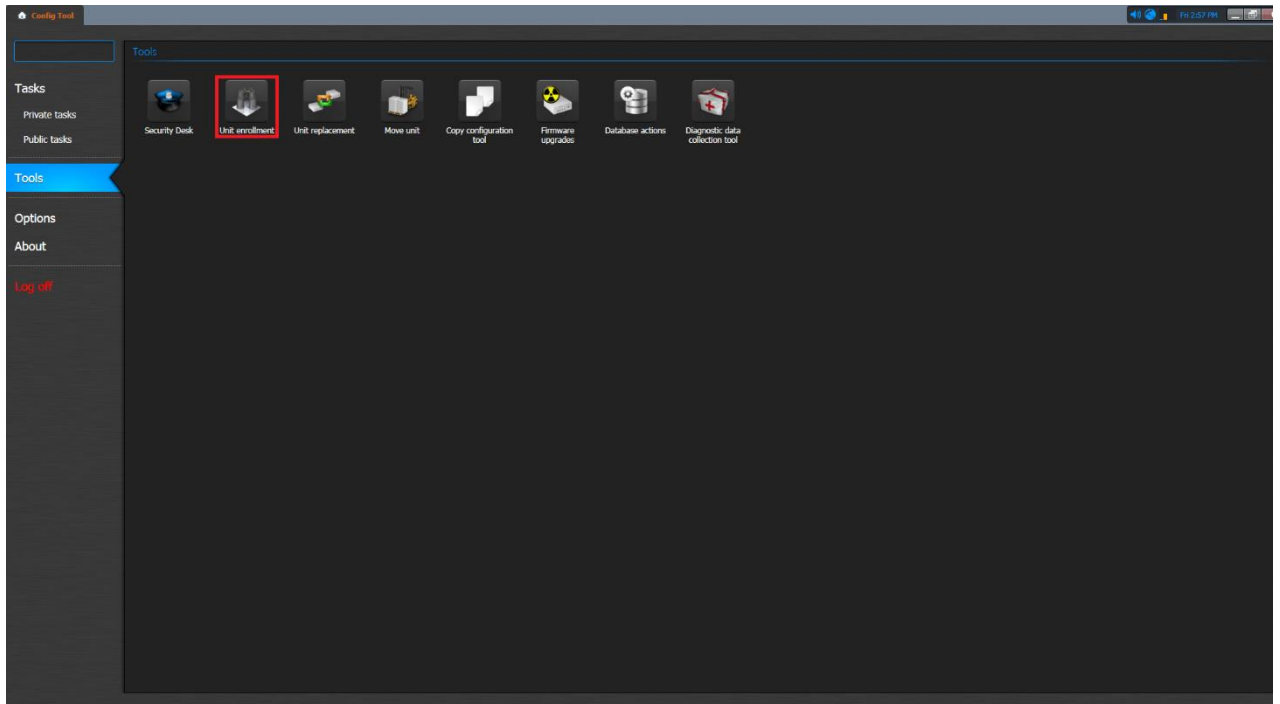


Then, enable Onvif and set authorisation data in menu Services / Onvif.

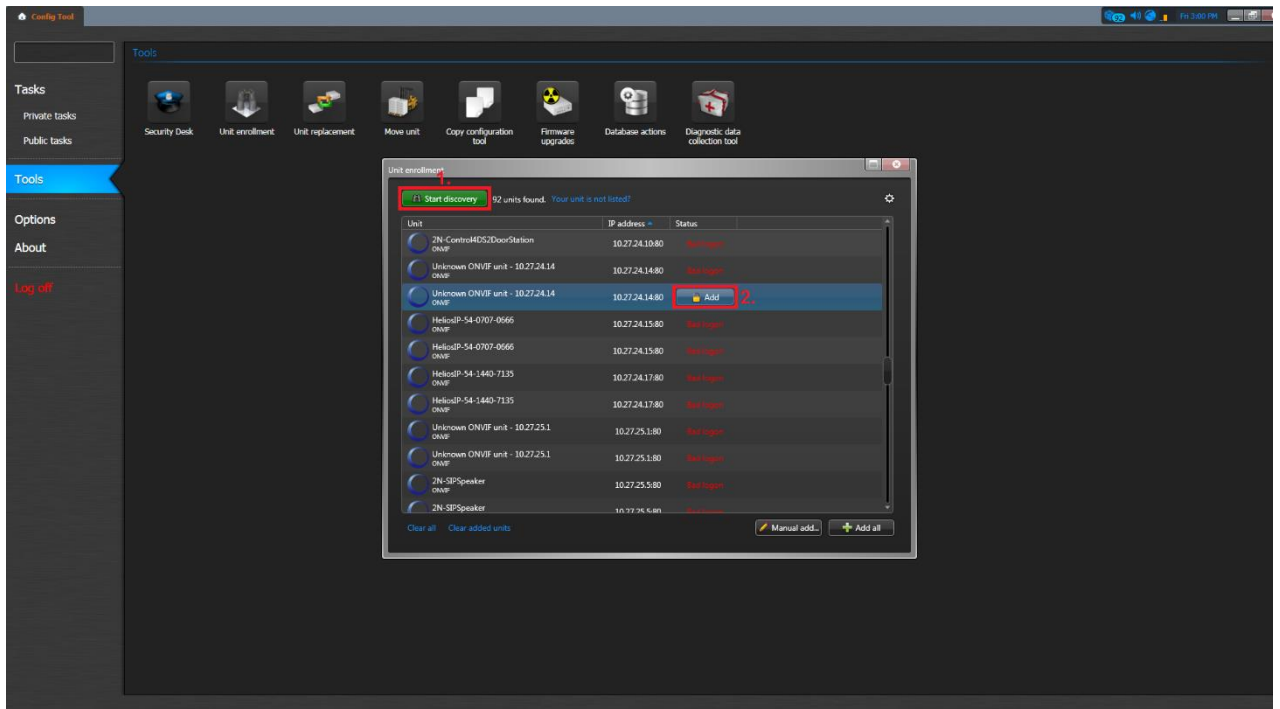




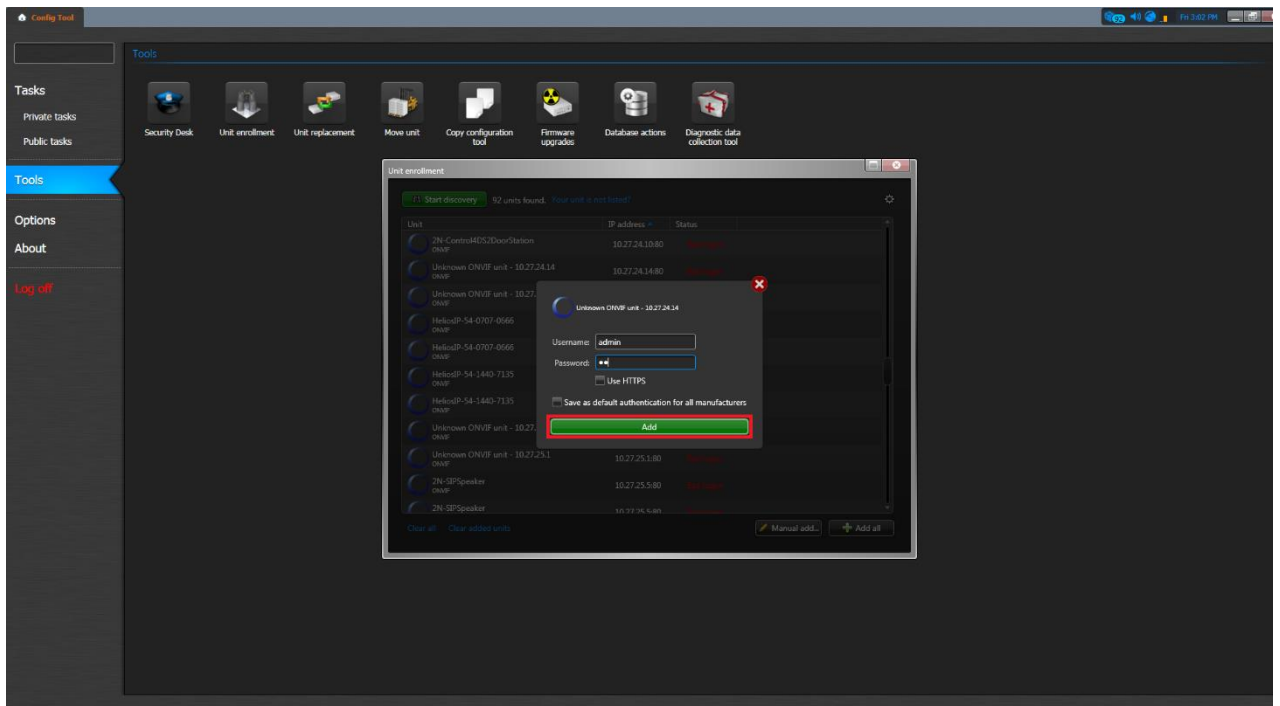
In the Config Tool menu - Tools click the Unit enrolment.



This opens dialog Unit enrollment. First, select Onvif as a manufacturer, then click Start discovery and add your device.



This opens menu for user name and password. Enter previously created Onvif credentials click to Add.



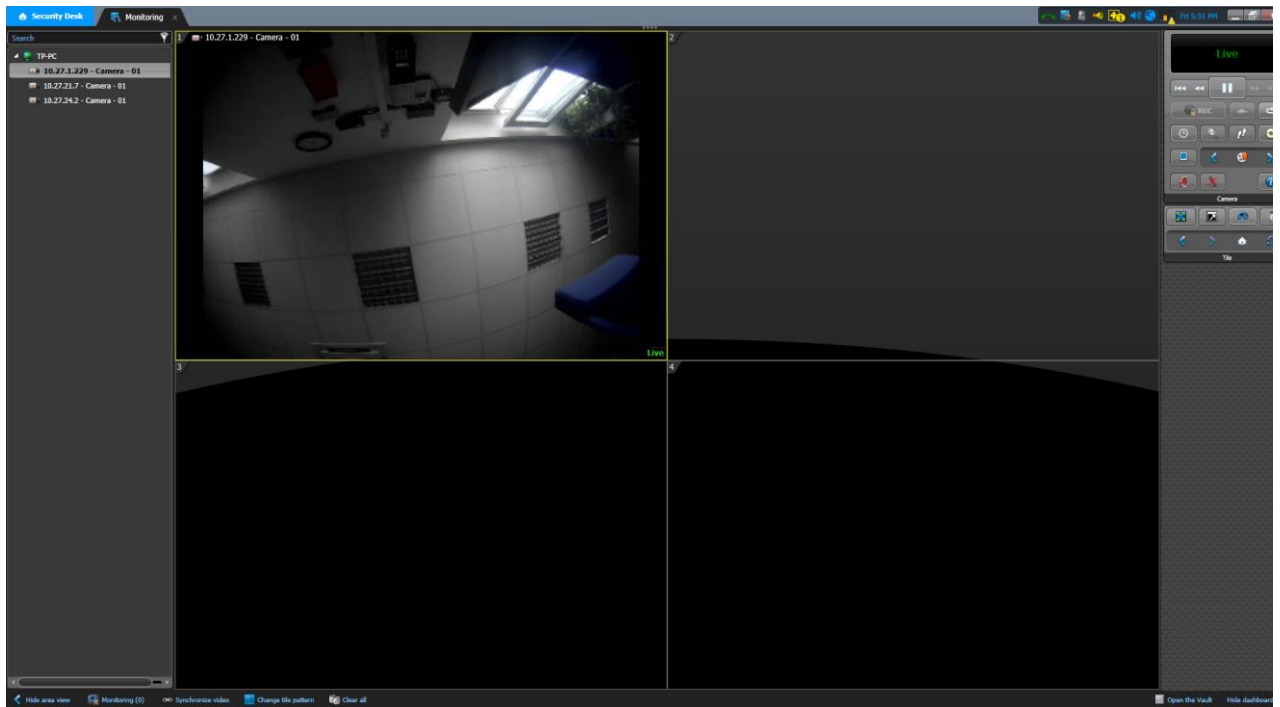


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Video from 2N IP Intercom

Now you can see the camera of the intercom in Security Desk. You can drag and drop it to the view.





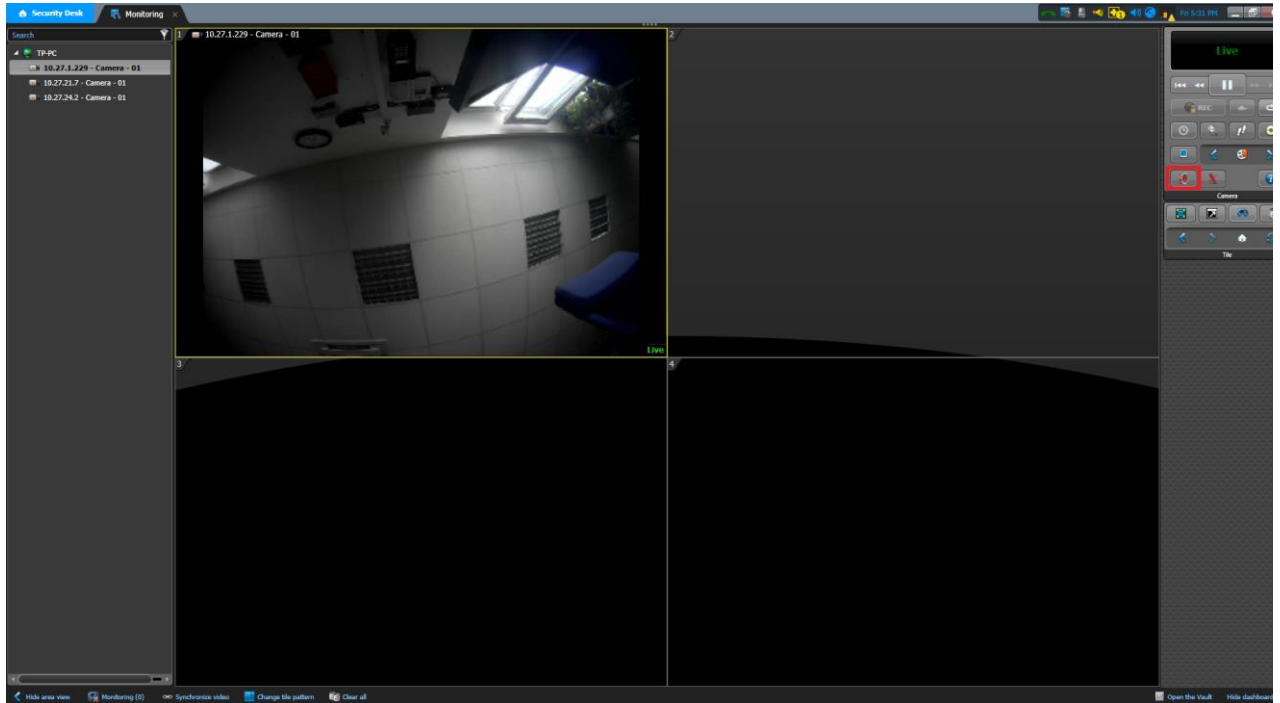


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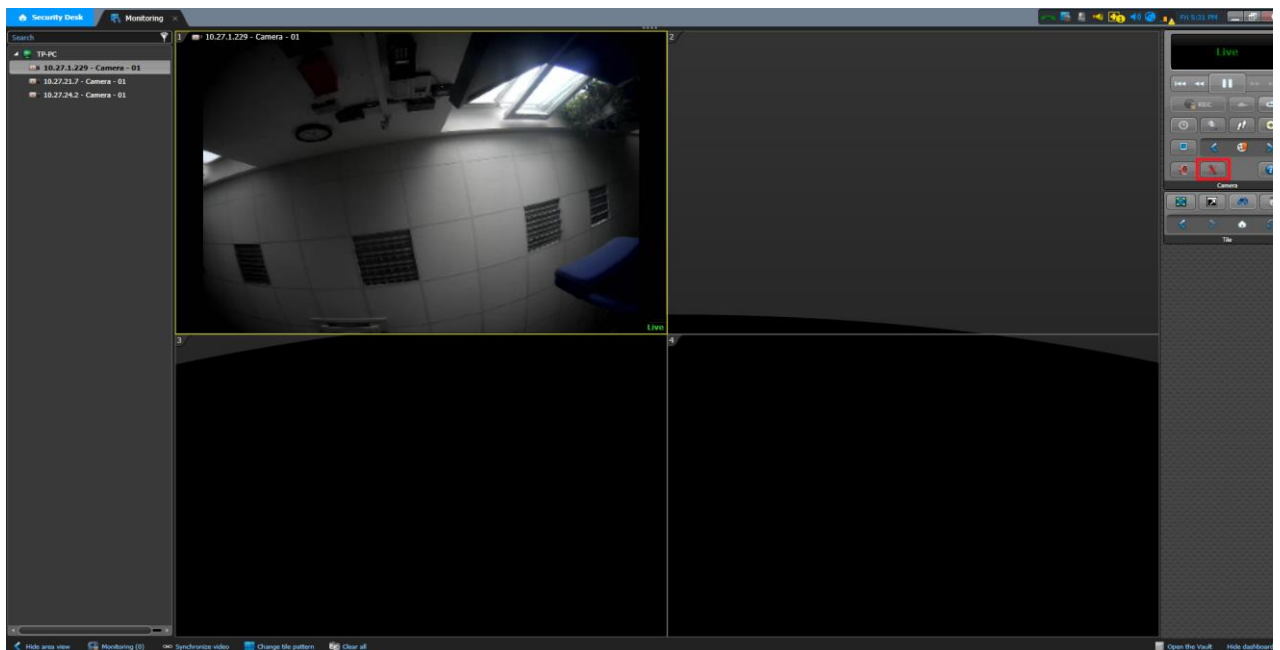
### Audio from 2N IP Intercom

Choose the Monitoring and this opens the Monitoring menu.  indicates that audio from the intercom is on.  indicates that audio from the Intercom is off. A click on the icon turns it on or off.



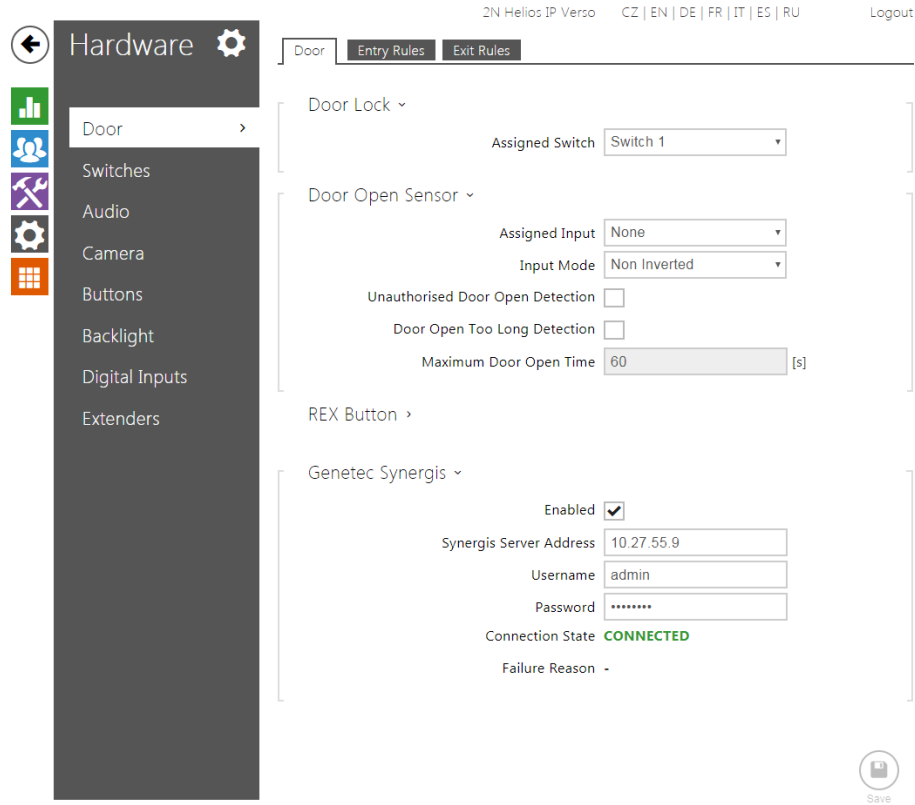
### Audio to 2N IP Intercom

 indicates that audio to the camera is on.  indicates that audio to the camera is off. A click on the icon turns it on or off.



## Access Logs - Synergis

Go to Hardware – Door – Door - Genetec Synergis and fill Synergis Server Address, Username, Password and click to Save. IP Intercom should be connected to Genetec Synergis.

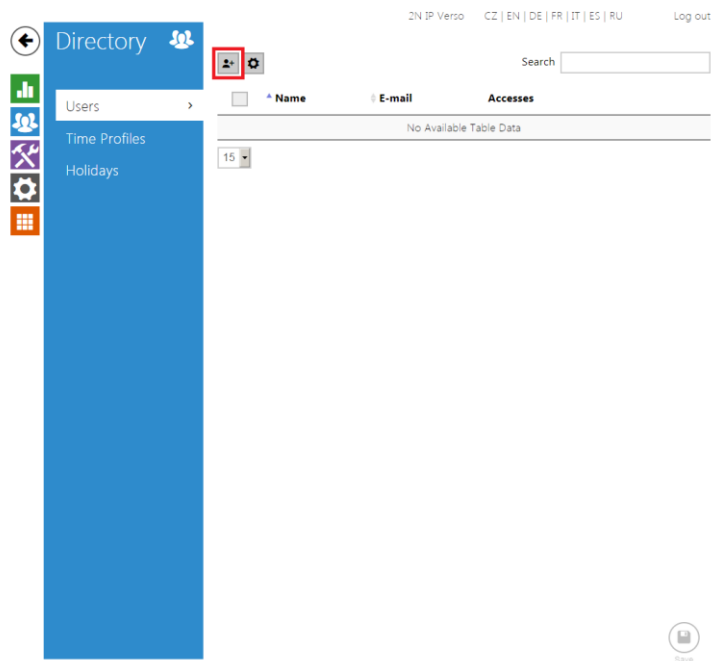


The screenshot shows the configuration page for the 'Door' section. The left sidebar is titled 'Hardware' and includes options for Door, Switches, Audio, Camera, Buttons, Backlight, Digital Inputs, and Extenders. The main content area is titled 'Door' and has sub-tabs for 'Door', 'Entry Rules', and 'Exit Rules'. The 'Door' sub-tab is active, showing configuration for 'Door Lock', 'Door Open Sensor', 'REX Button', and 'Genetec Synergis'. The 'Genetec Synergis' section is expanded, showing the following settings:

- Enabled:
- Synergis Server Address: 10.27.55.9
- Username: admin
- Password: \*\*\*\*\*
- Connection State: **CONNECTED**
- Failure Reason: -

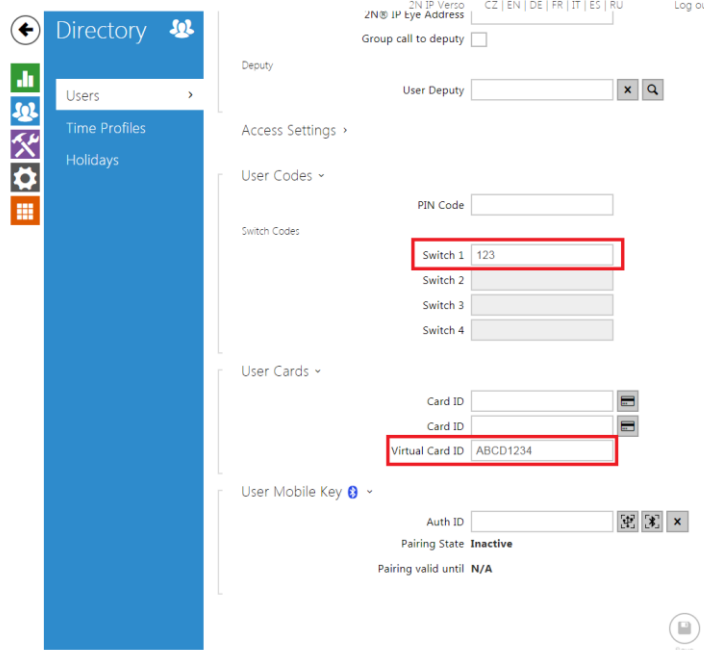
A 'Save' button is located at the bottom right of the configuration area.

Go to menu Directory - Uses and add new user.



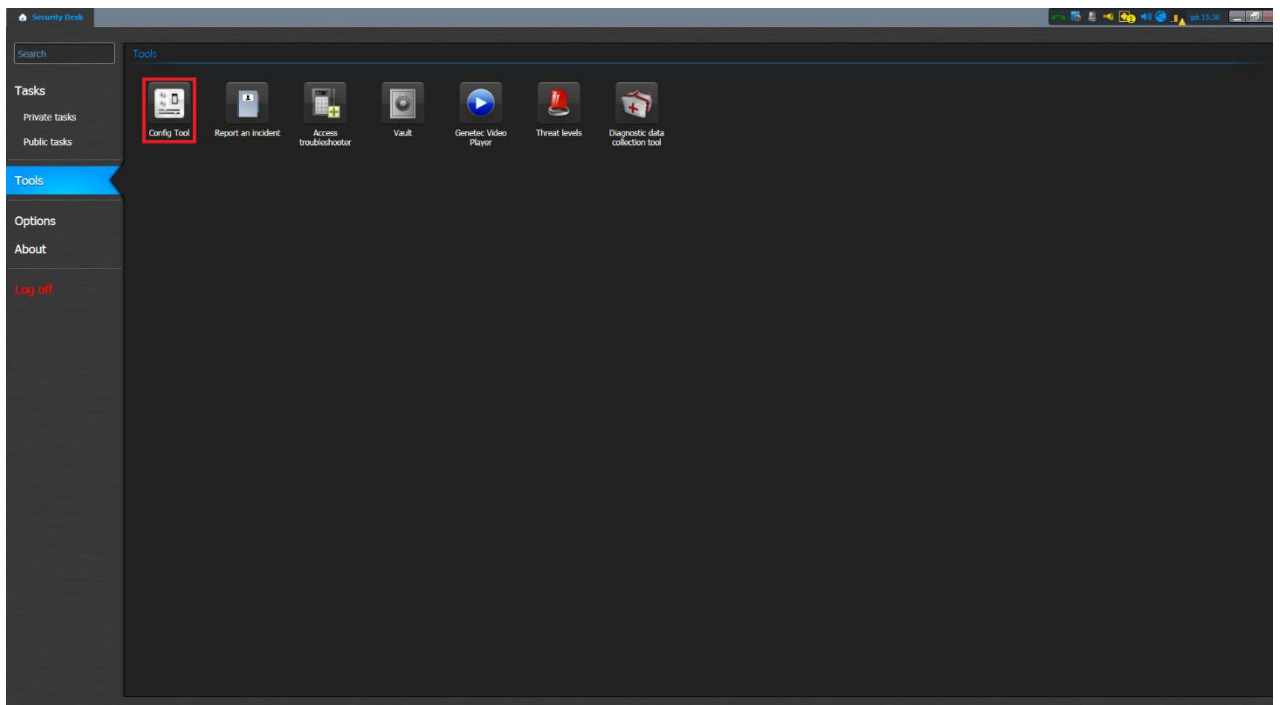
The screenshot shows the configuration page for the 'Directory' section. The left sidebar is titled 'Directory' and includes options for Users, Time Profiles, and Holidays. The main content area is titled 'Directory' and has a sub-tab for 'Users'. The 'Users' sub-tab is active, showing a search bar and a table with columns for Name, E-mail, and Accesses. The table is currently empty, displaying 'No Available Table Data'. A 'Save' button is located at the bottom right of the configuration area.

If you use Bluetooth module or Keypad module you have to set virtual Card ID. This example is for Keypad module.

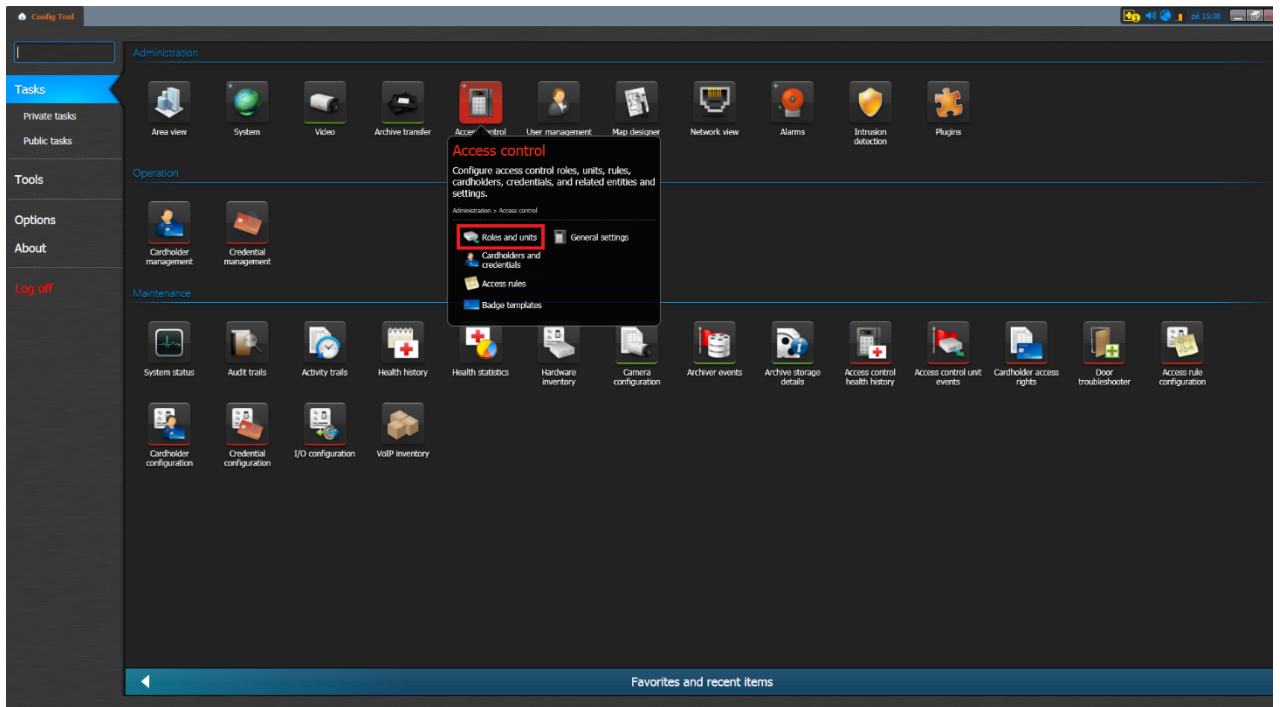


### Genetec Synergis Settings

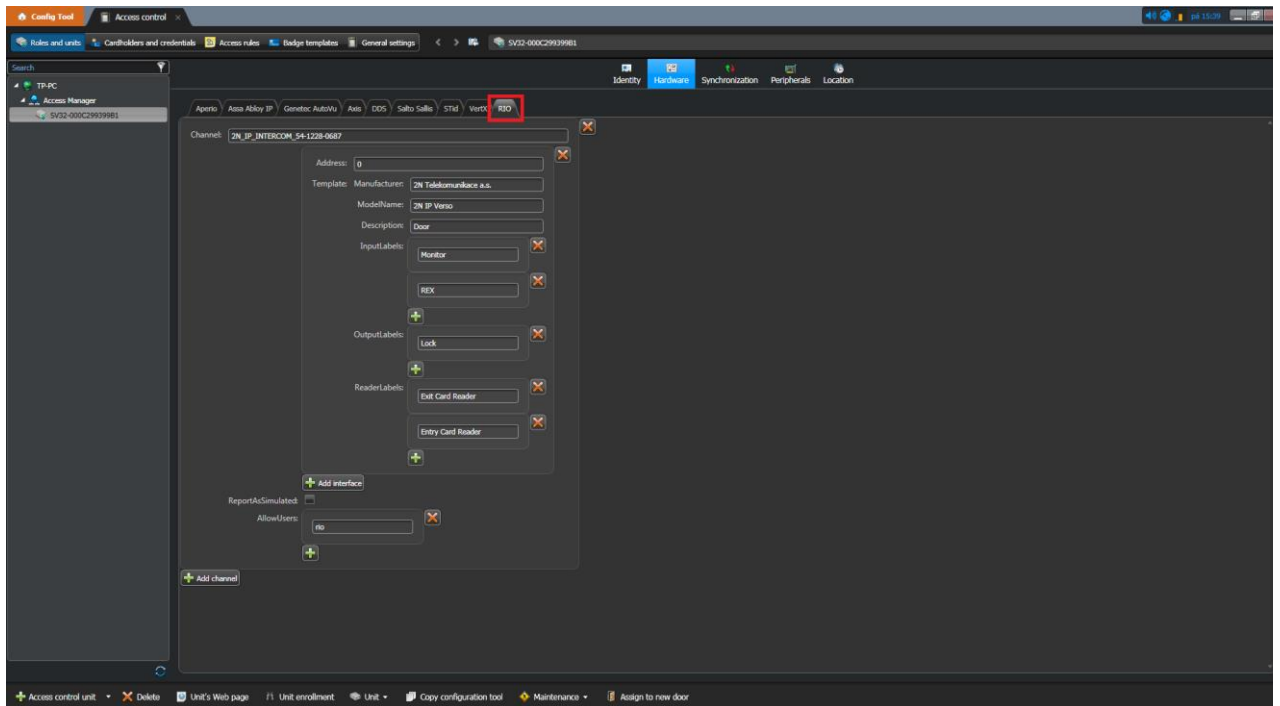
Before start with setting of Genetec Synergis make sure you have the Synergis server installed and running. You may need to enable the RIO endpoint as it is off by default. To do so enter in your browser: [https://\[Synergis IP\]/Features/DuiRIO/Enabled/Set?value=true](https://[Synergis IP]/Features/DuiRIO/Enabled/Set?value=true) where [Unit IP] is the IP address of your Synergis™ unit. Now start Genetec Security Desk and open menu Config Tool.



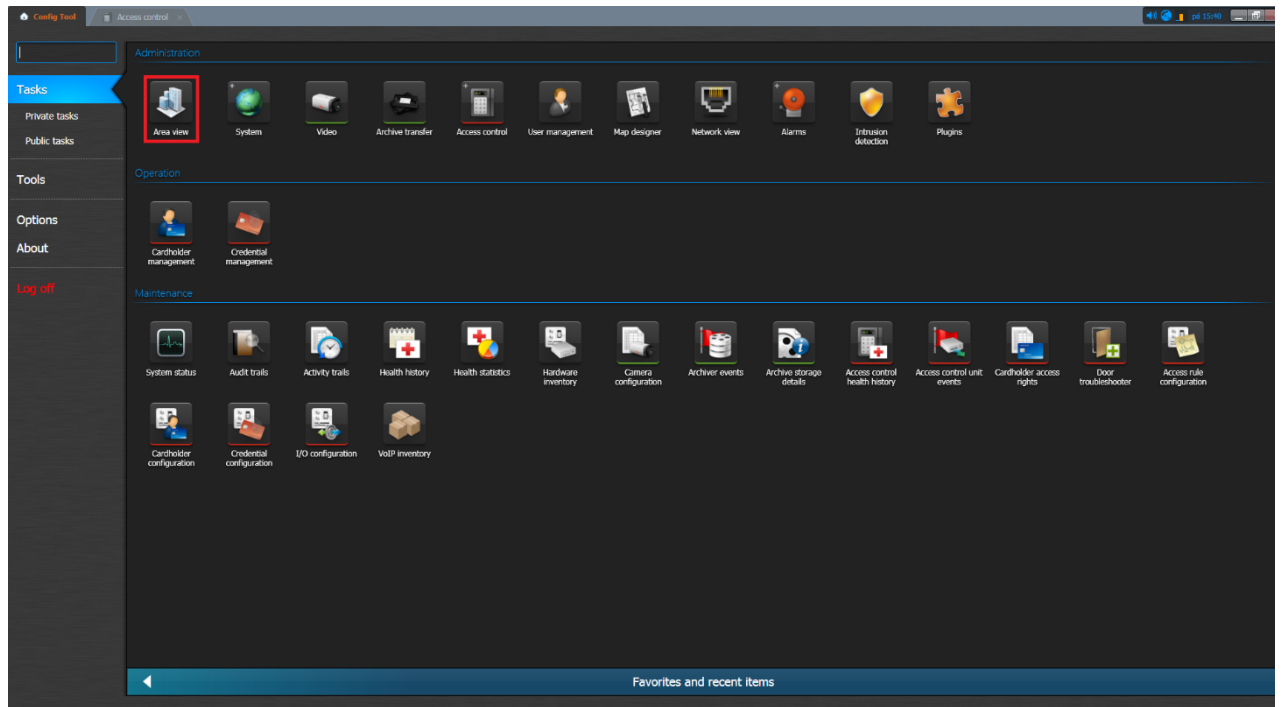
In Config Tool open menu Access Control - Roles and units.



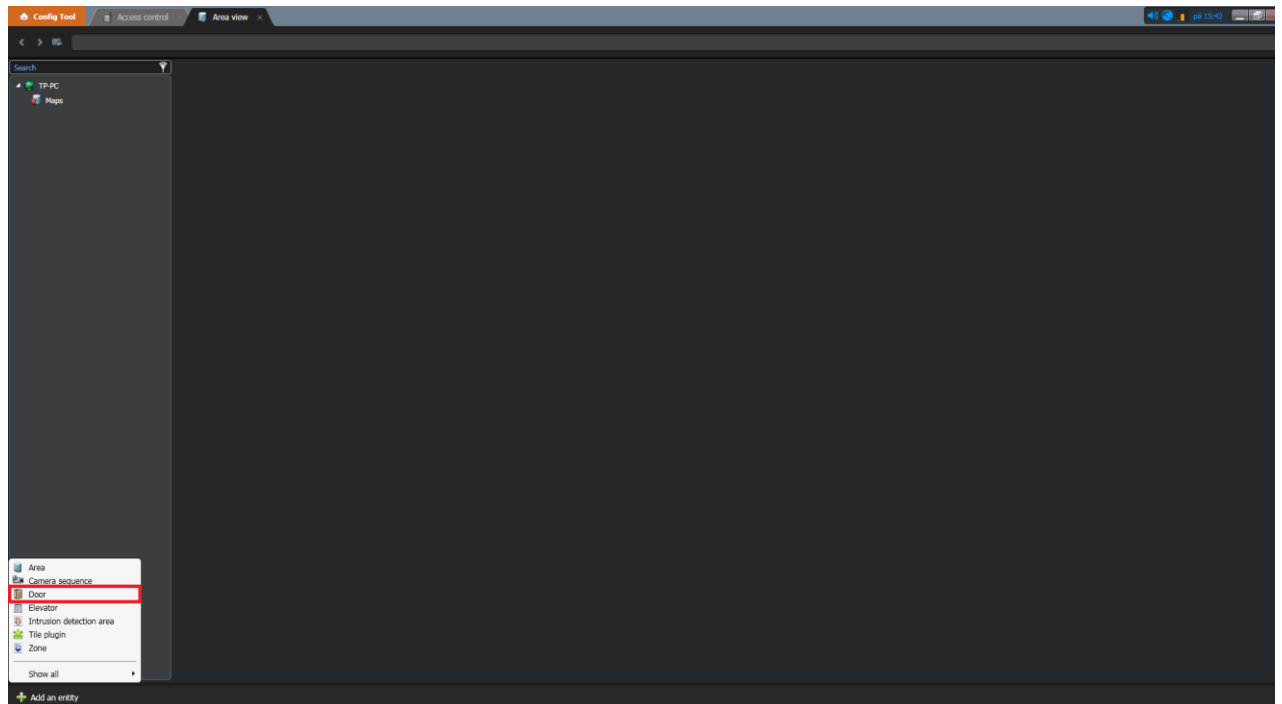
Click on your unit of Access Manager and check in menu RIO registered intercom.



Go to menu Area view.

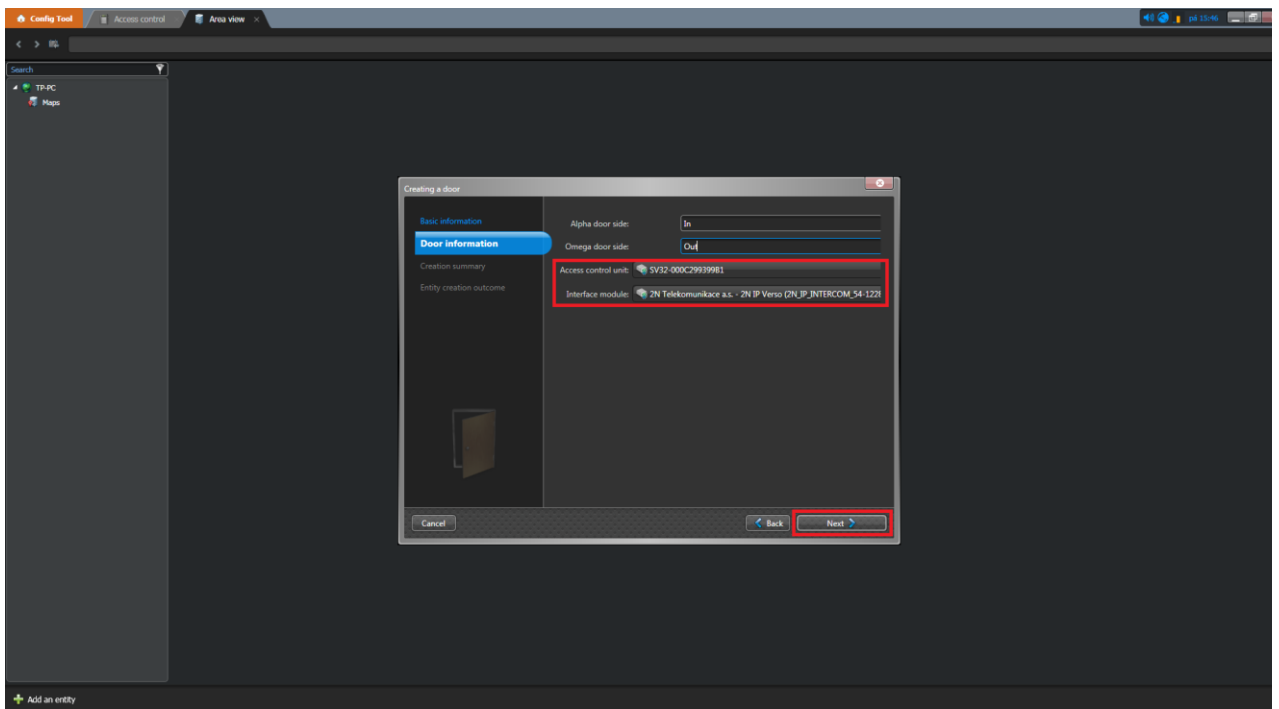
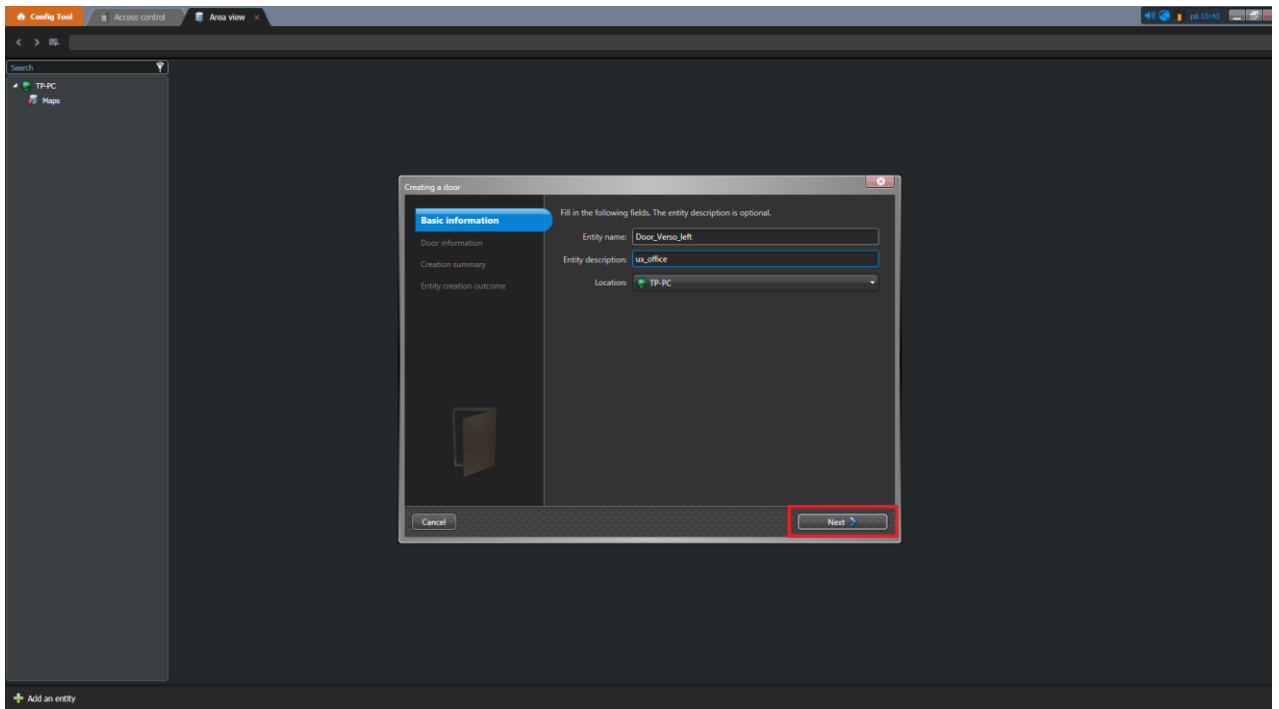


In the menu Area view create new Door.

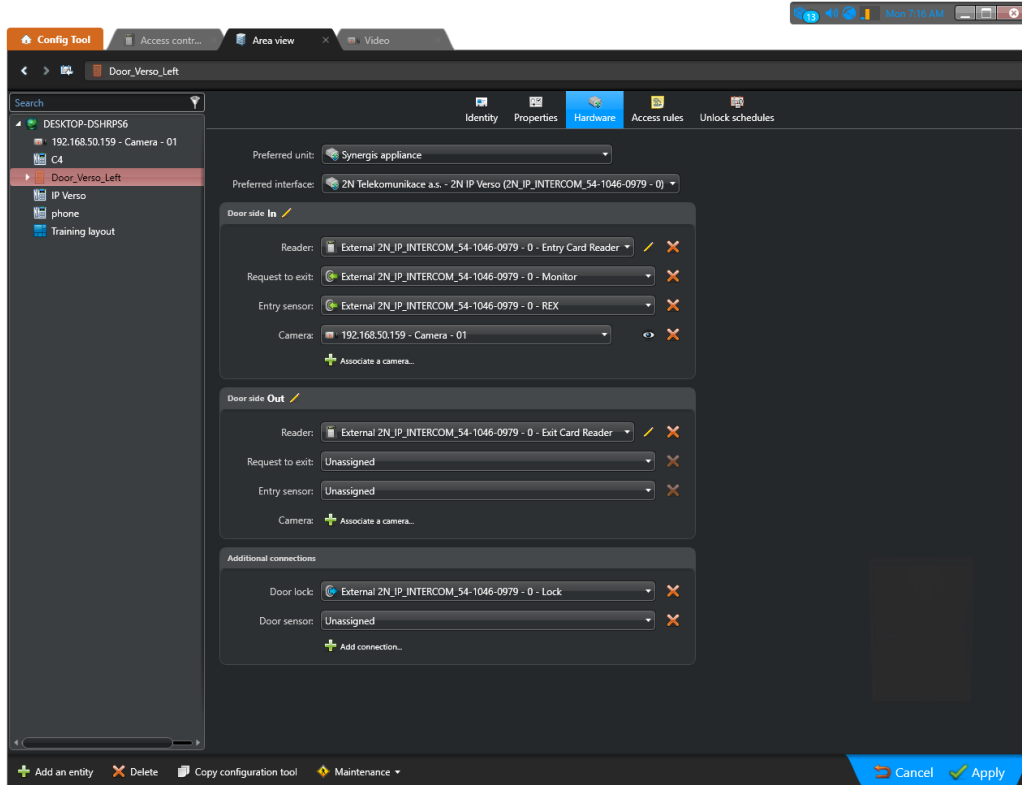




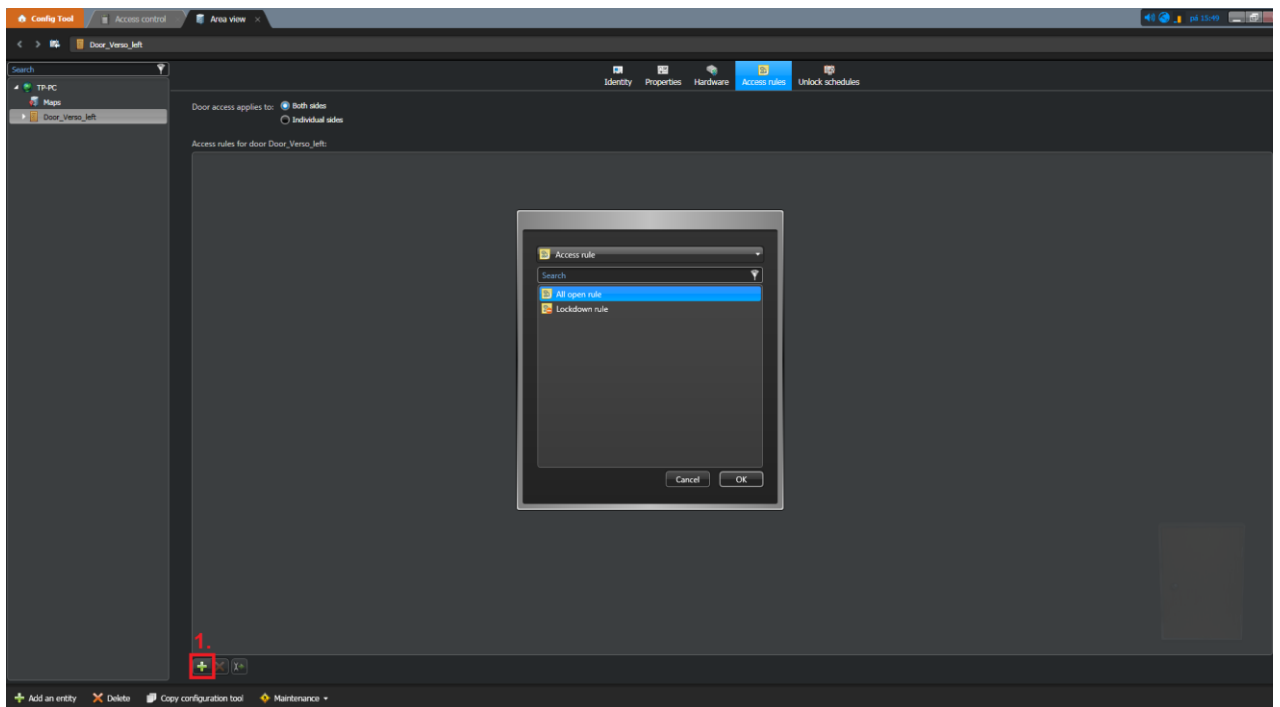
Set Entity name, Entity description, click to Next and choose Acces control unit, Interface module and add your Door.



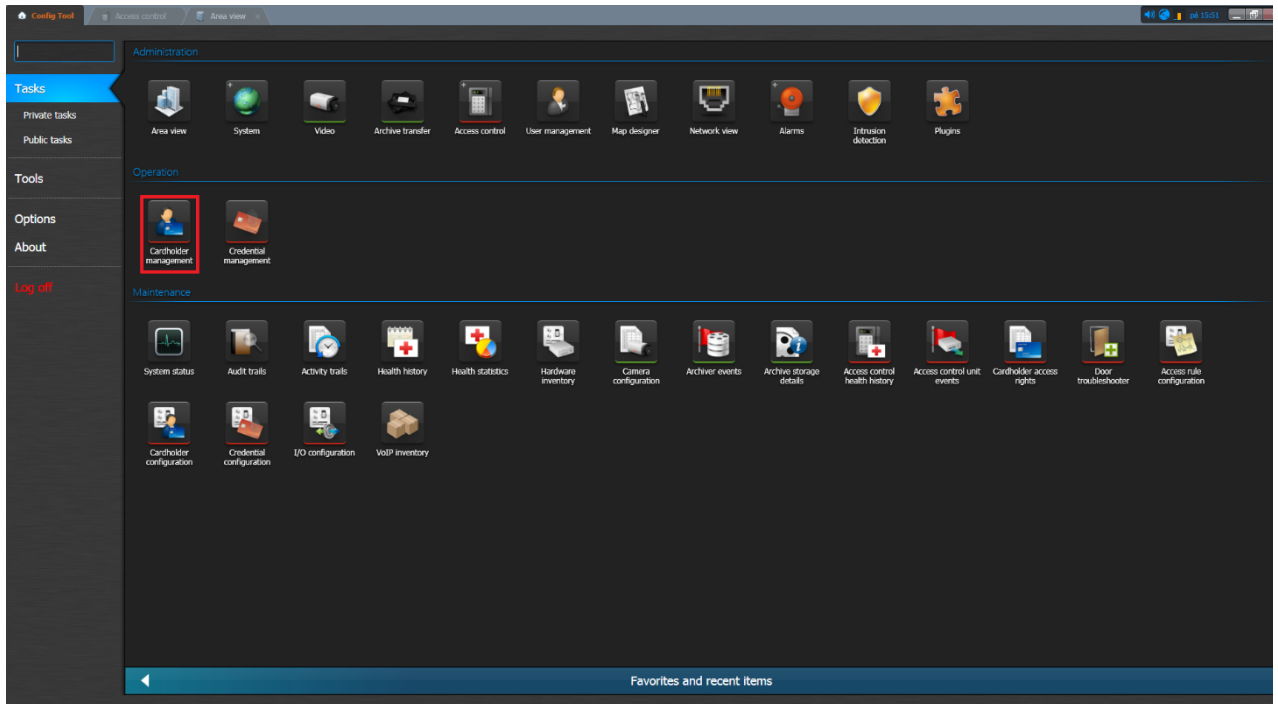
In menu Hardware of your Door set Door side In, Door side Out, associated Camera and save it.



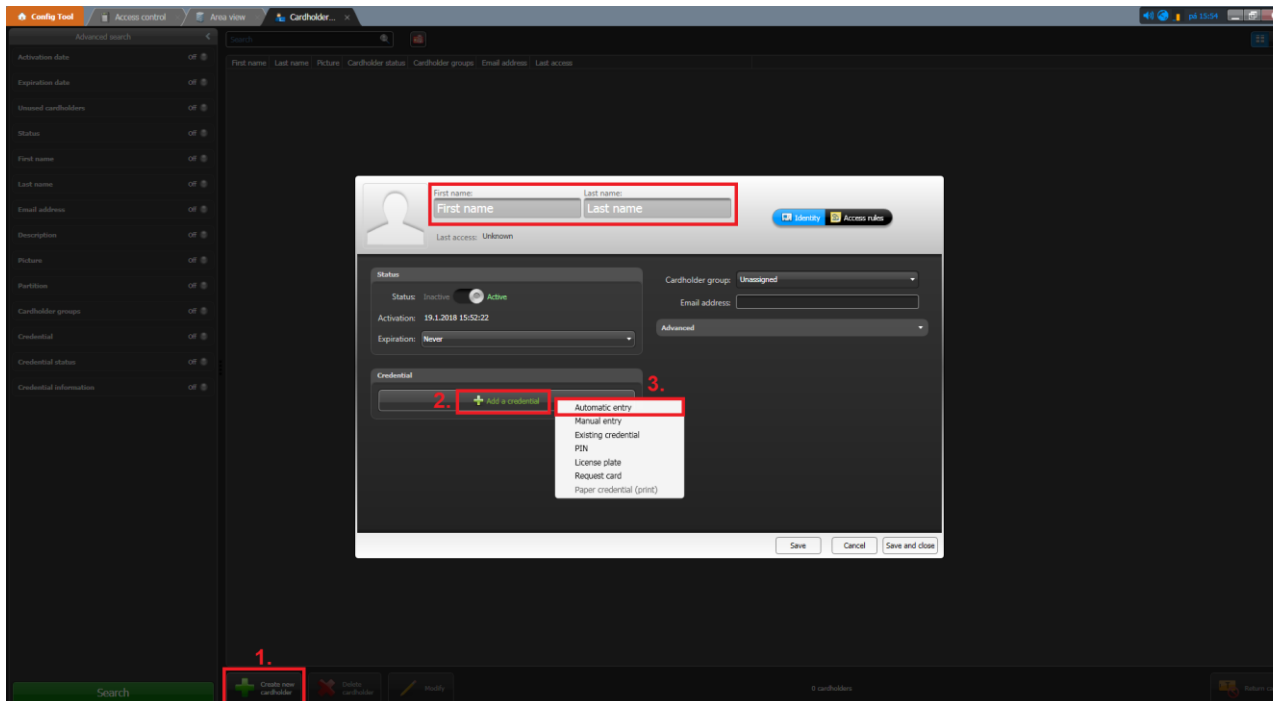
In menu Access Rules add your rule.



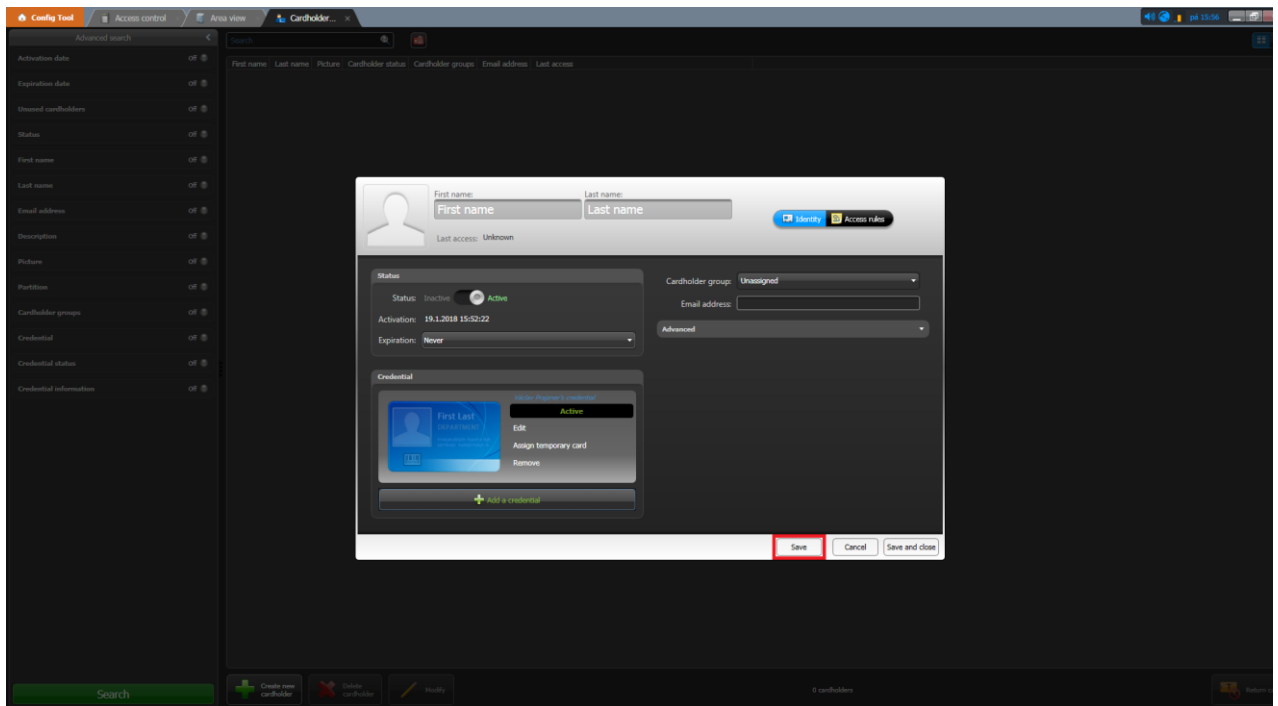
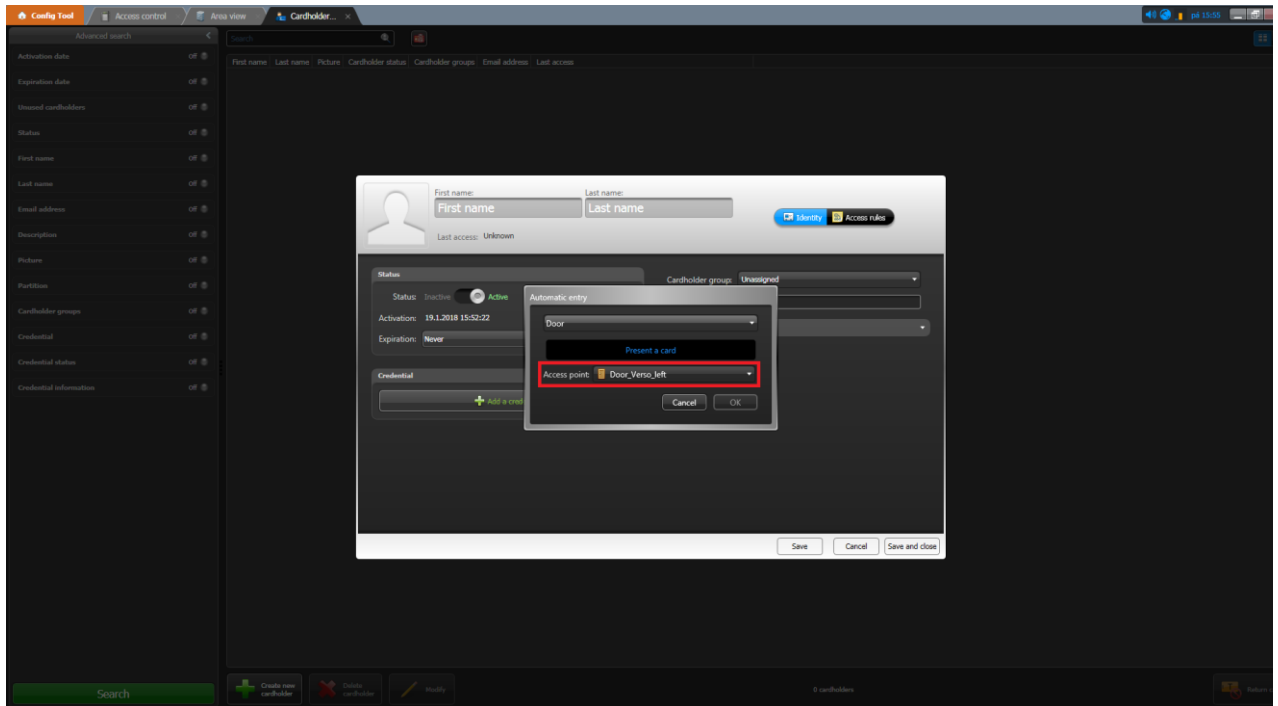
Go to menu Cardholder management in Config Tool.



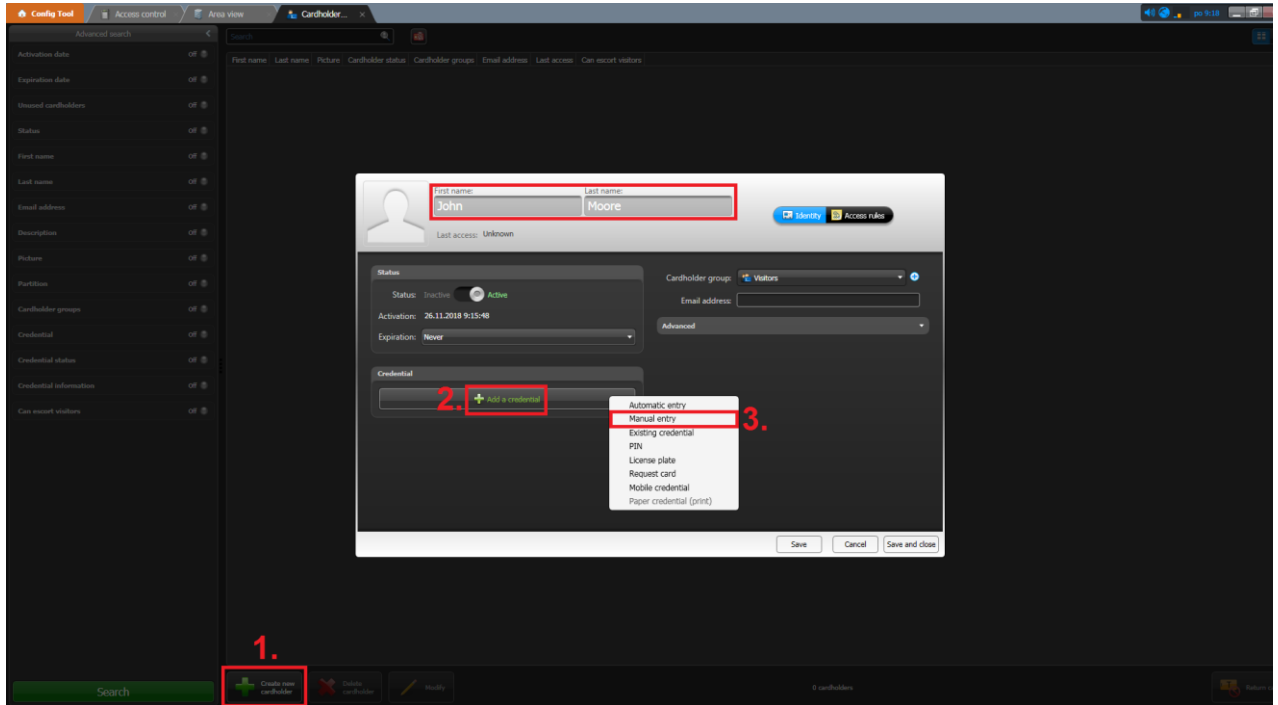
These steps are for Card Reader module. Click on Create new cardholder, set First name, Last name and add a credential - Automatic entry.



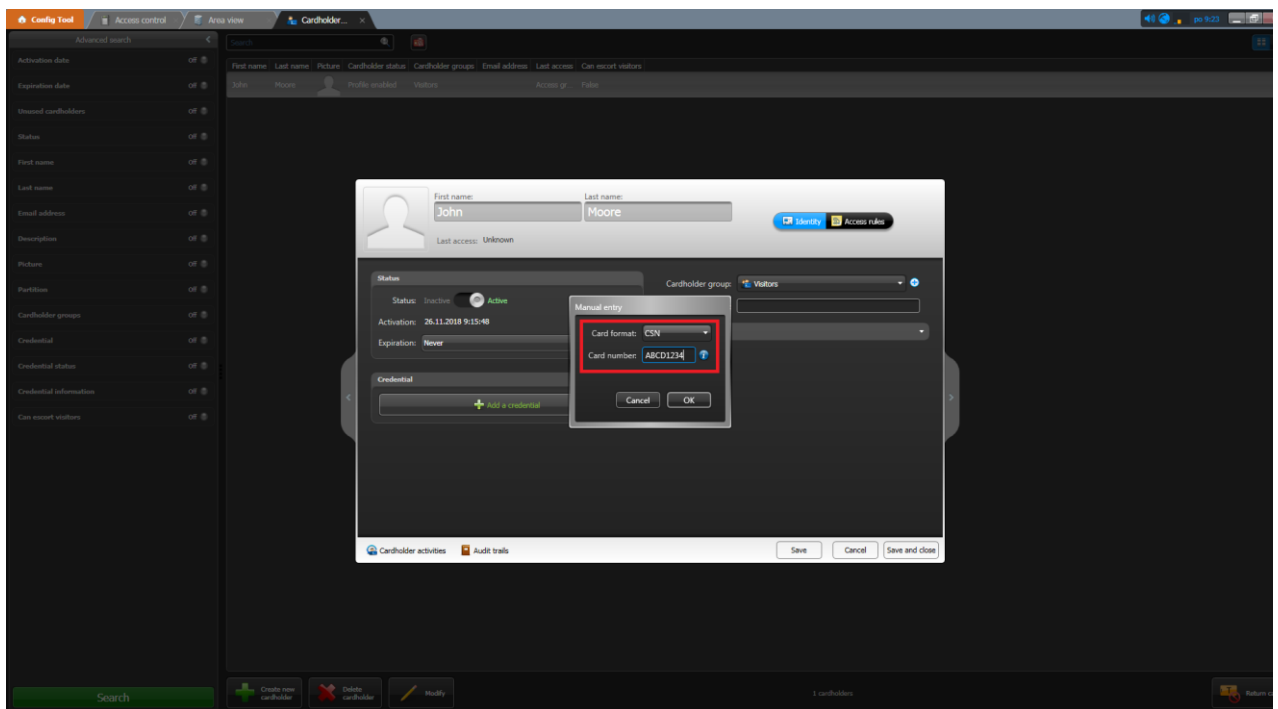
For Automatic entry set Access point (your Door) and swipe of user. Now you can save the settings.



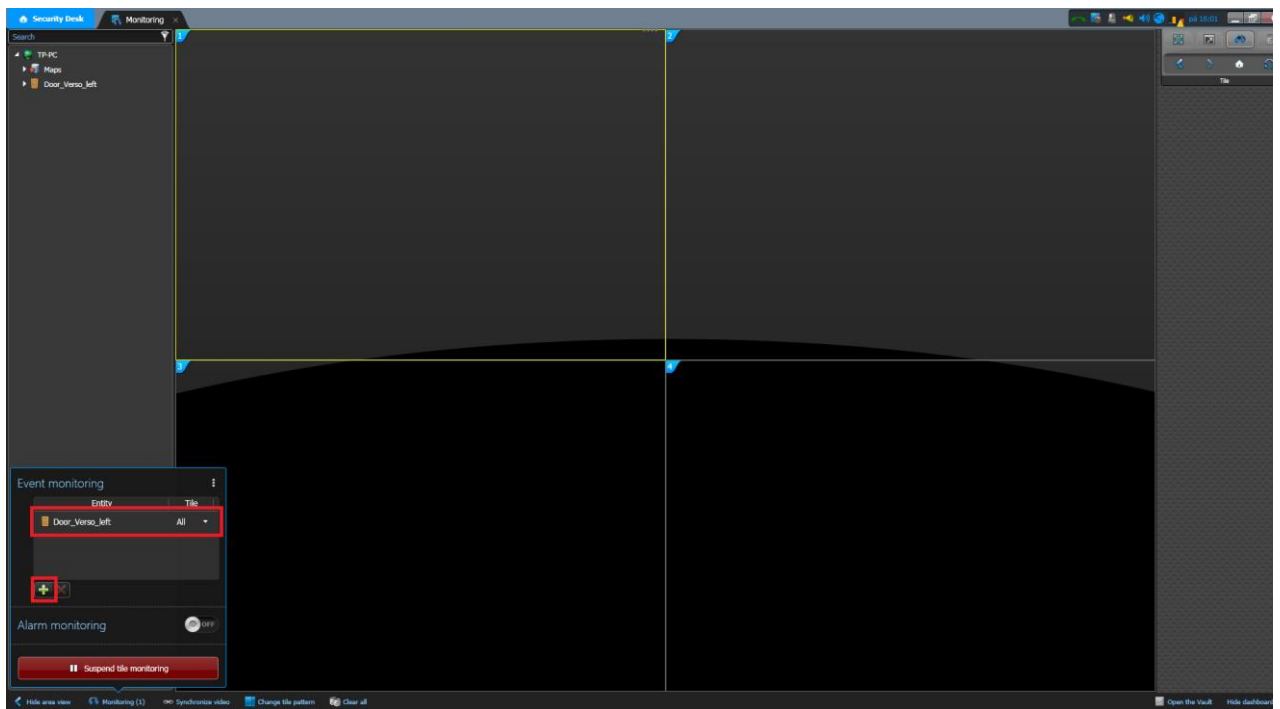
These steps are tied with configuration virtual card ID in the beginning of this chapter. This step is only needed if there is other than RFID access control (Bluetooth, Fingerprint or keypad). Click on Create new cardholder or edit existing, set First name, Last name and add a credential - Manual entry.



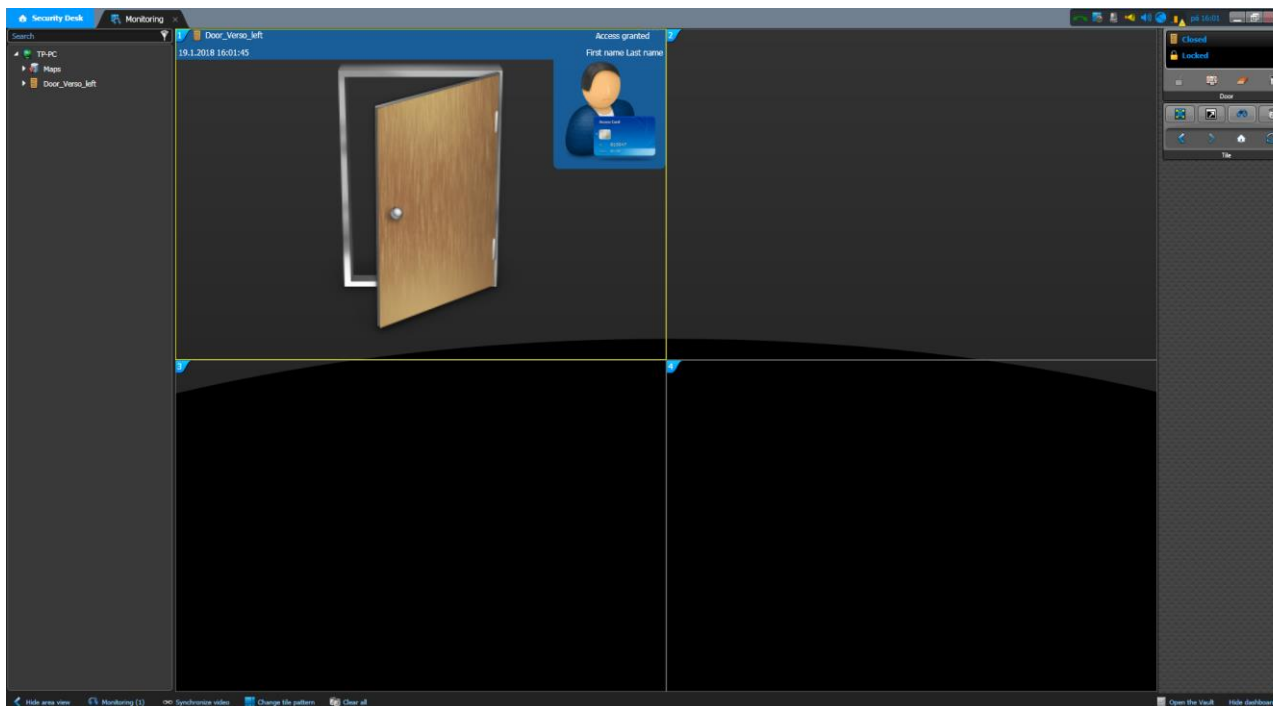
Set Card format to CSN and Card number same as for created user in intercom and save the settings.



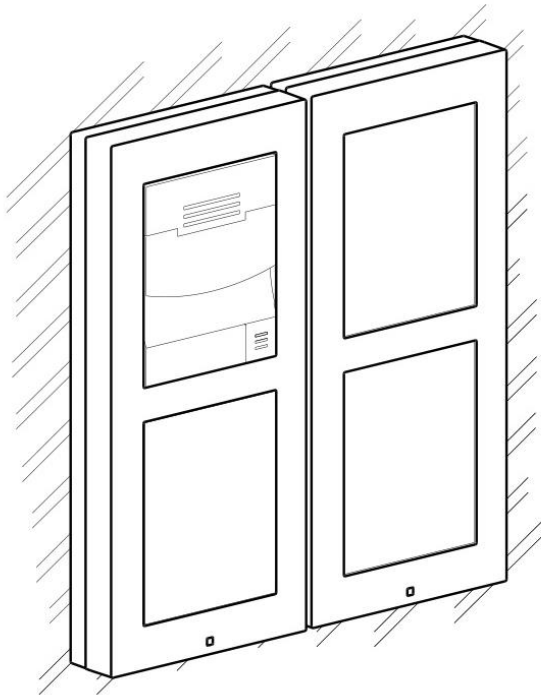
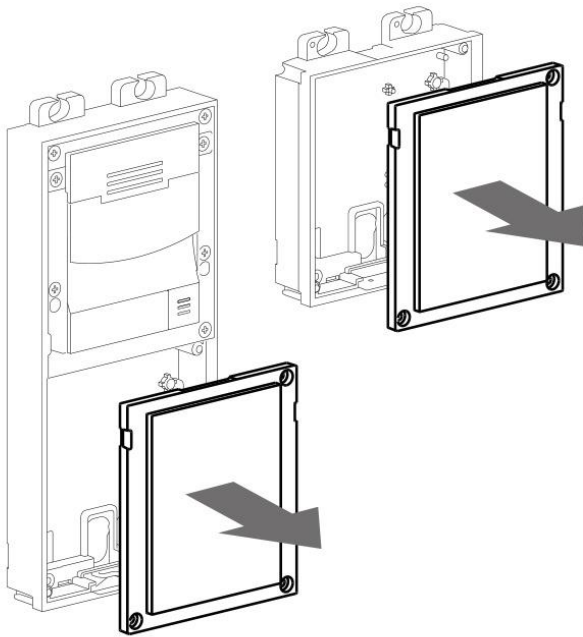
In menu Monitoring in Security Desk set Event monitoring. Add new Event Monitoring and choose your Door.

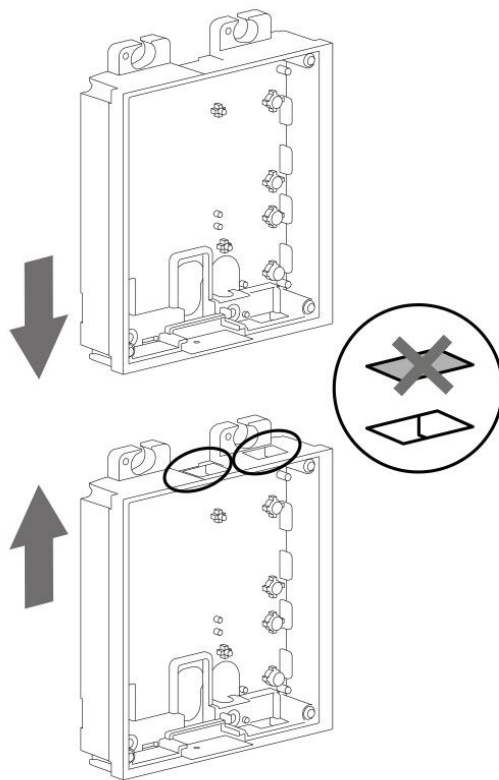
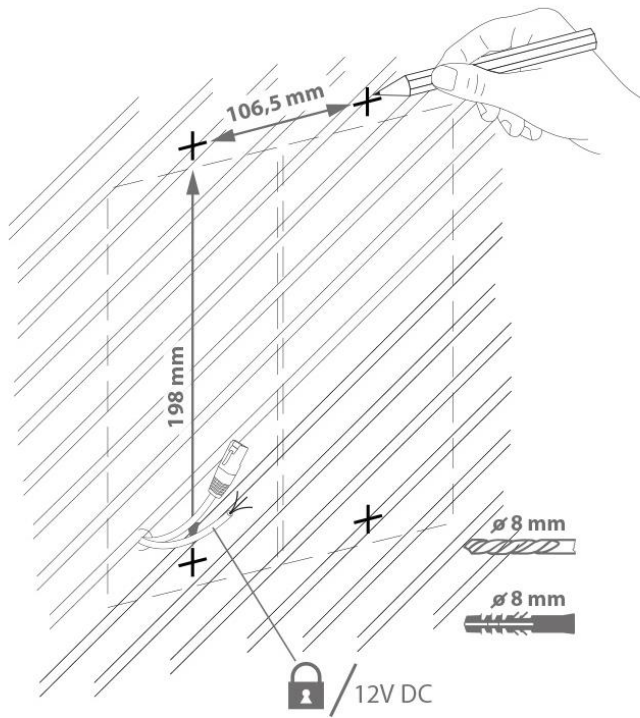


Now you can see notifications after user swipe the card at added intercom.

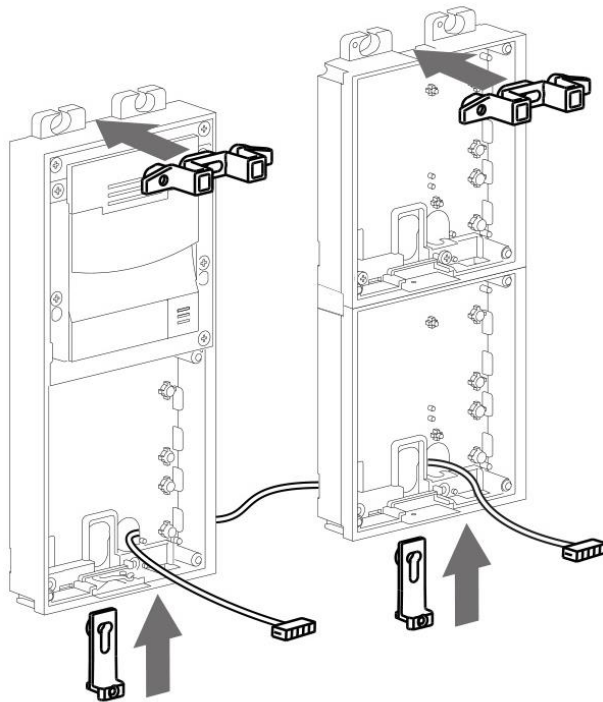
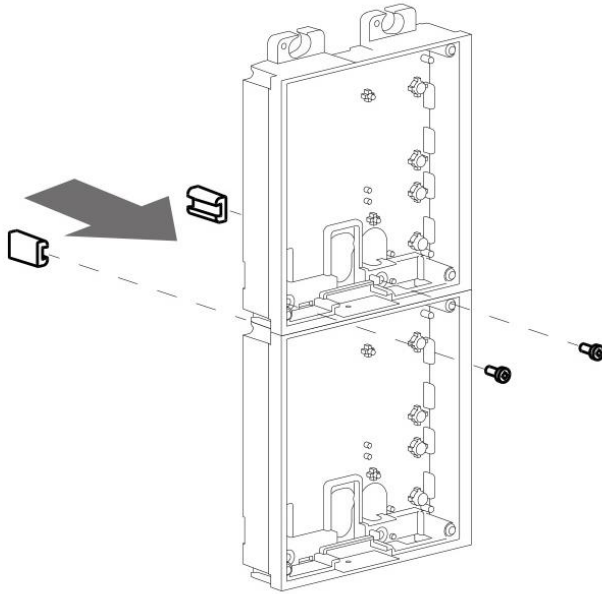


## Manual Installation - Surface module mounting





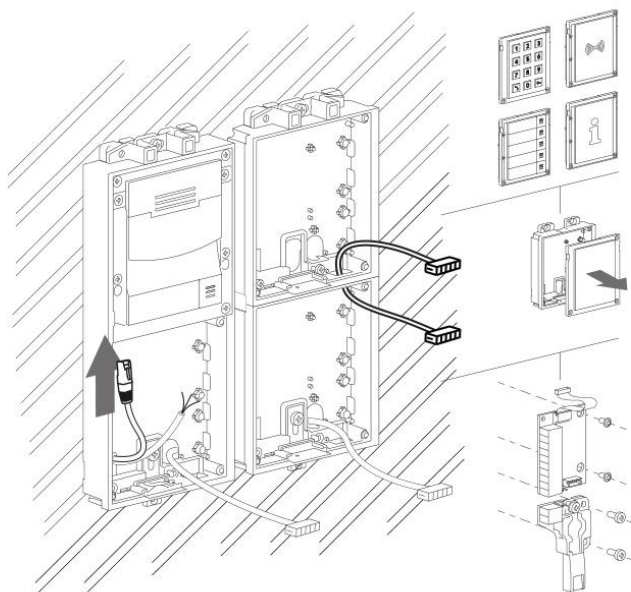
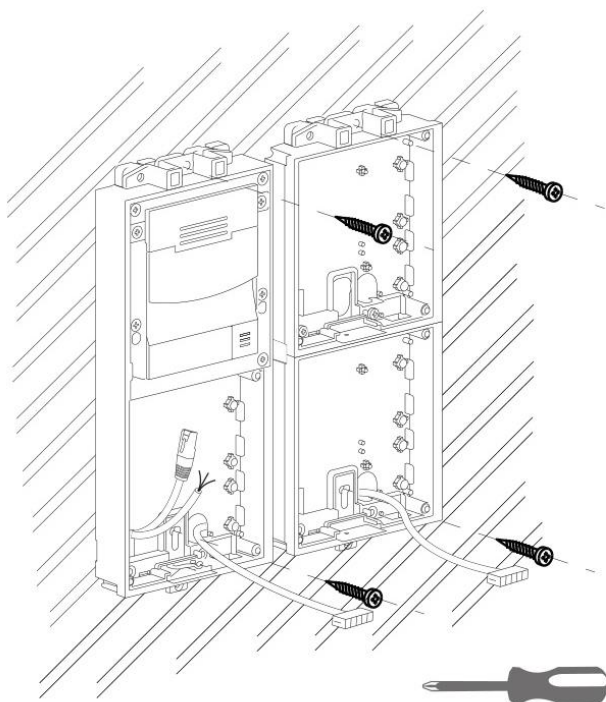






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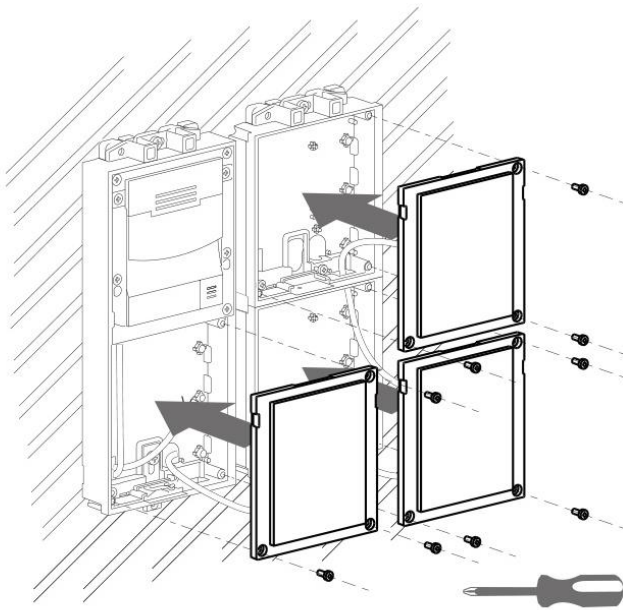
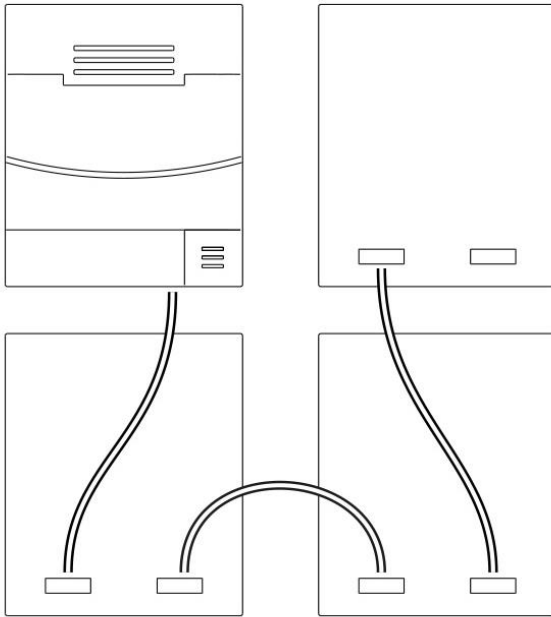
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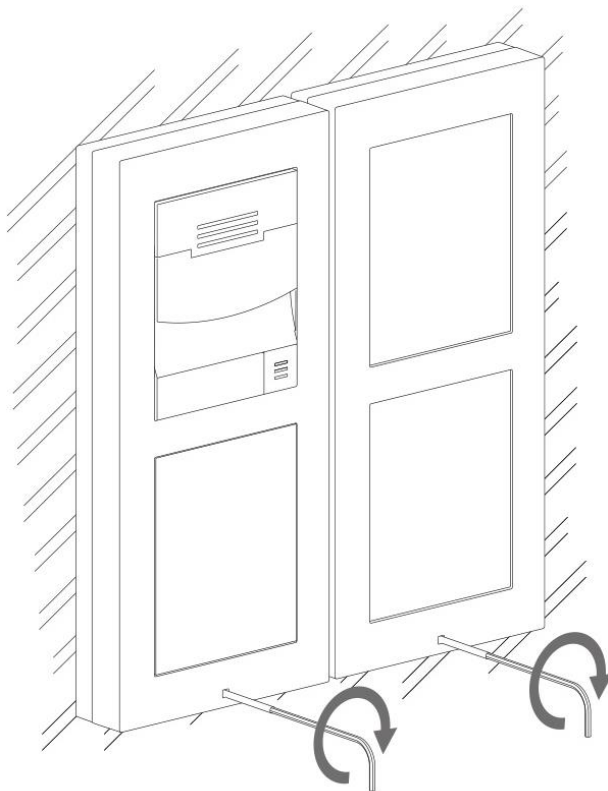
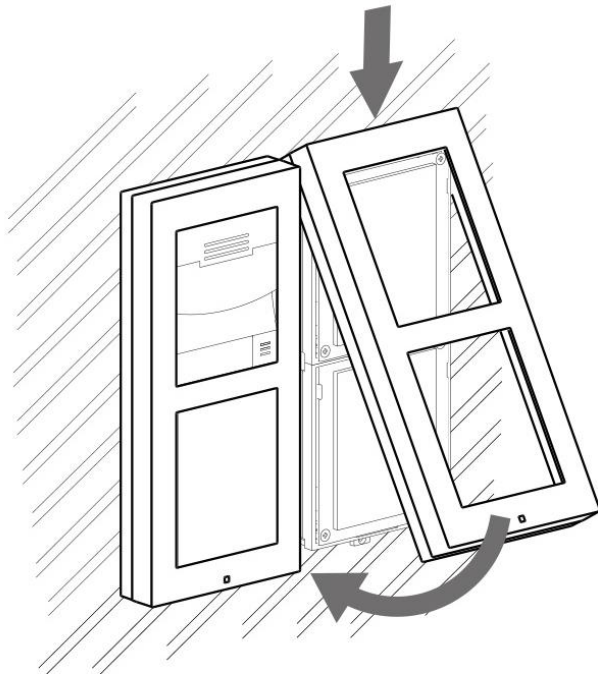




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# Integration & Configuration Manual: Genetec Security Center & 2N IP Intercoms





## Configuration

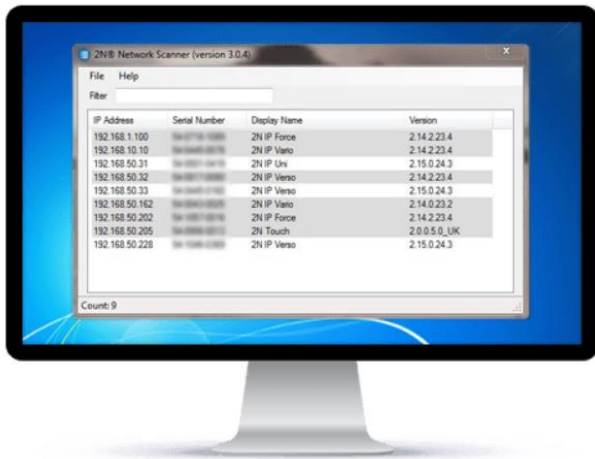
Configure 2N® IP Verso using your PC with any internet browser:

- Launch your internet browser (Internet Explorer, Firefox, etc.).
- Enter the IP address of your intercom (e.g. <http://192.168.1.100/>).
- Log in using the username Admin and password 2n.


You have to know your intercom IP address to log in to the integrated web server. Upon purchase, 2N® IP Verso is set to the dynamic IP address mode – it retrieves the IP address automatically if there is a properly configured DHCP server in the LAN. If no DHCP is available, operate 2N® IP Verso in the static IP address mode. Refer to the Configuration Manual for the 2N® IP Verso configuration details.

### IP Address Retrieval

You can use utility called 2N® IP Scanner which can be downloaded [here](#).



Alternatively, take the following steps to retrieve the 2N® IP Verso IP address:

- Connect (or, if connected, disconnect and reconnect) 2N® IP Verso to the power supply.
- Wait for the second sound signal .
- Press the quick dial button on the main unit 5 times.
- 2N® IP Verso will read its IP address.
- If the address is 0.0.0.0, it means that the intercom has not obtained the IP address from the DHCP server.





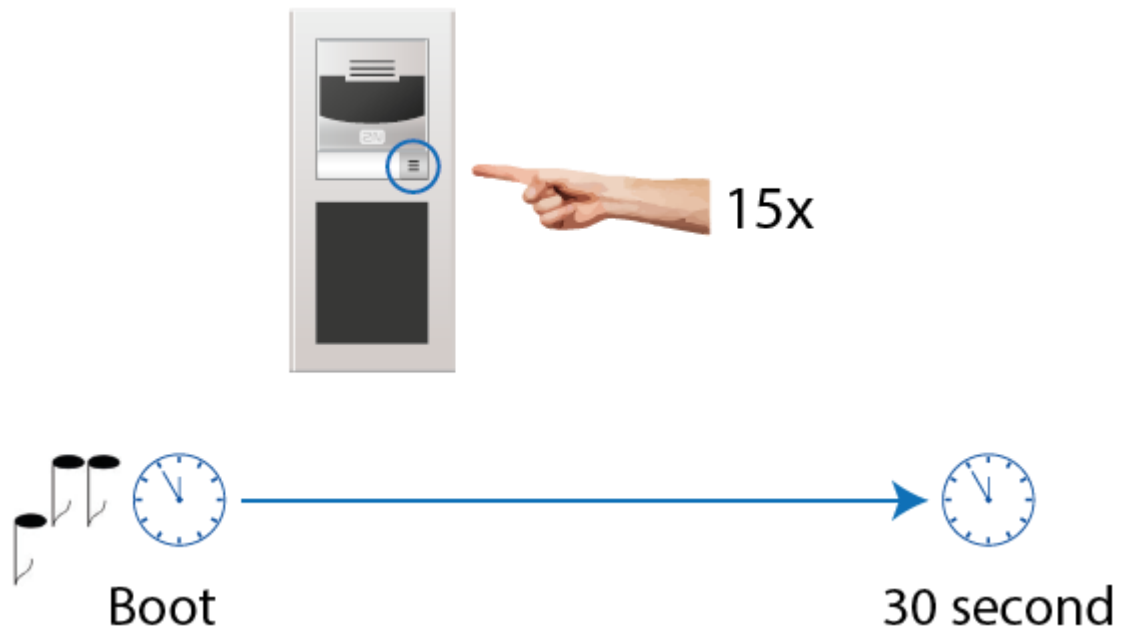
*Note: Be sure to press the button sequence within thirty seconds after the sound signal for security reasons. Up to 2 s intervals are allowed between the presses.*

#### Dynamic/Static IP Address Switching

If your device remains inaccessible (you have forgotten the IP address, the network configuration has changed, etc.), you can change the network configuration using the device buttons.

Take the following steps to switch the dynamic and static IP address mode in 2N® IP Verso:

- Connect (or, if connected, disconnect and reconnect) 2N® IP Verso to the power supply.
- Wait for the first sound signal  .
- Press the quick dial button on the main unit 15 times.
- Switching is signalled with the sound signal  .
- Wait until the device is restarted automatically.
- Upon restart, the static IP address mode will be switched to the dynamic IP address mode and vice versa.



The following network parameters will be set after the static IP address mode is switched on and the device is restarted:

- IP address: 192.168.1.100
- Network mask: 255.255.255.0
- Default gateway: 192.168.1.1

*Note: Be sure to press the button sequence within thirty seconds after the sound signal for security reasons. Up to 2 s intervals are allowed between the presses.*