An Axis company

Integration & Installation Manual
Milestone XProtect® 2N® IP Intercoms

Summary

Integration of Milestone XProtect® with 2N® IP Intercoms 2
2N Intercom Settings 4
Tested Features 6
1. Scan Device 6
2. Video from 2N IP Intercom 9
3. Audio from 2N IP Intercom 11
4. Switch control 13
5. Events from 2N IP Intercom 14
Manual Installation - Surface module mounting 16
Configuration 22

Integration of Milestone XProtect® with 2N® IP Intercoms

The integration via Onvif Profile S enables users to monitor a video from the IP intercom, communicate in real time with a person in front of the intercom and control the door from one unified interface, XProtect® Smart Client.

Solution Key Features

Video stream – audio and video stream from the IP intercom is sent via RTSP protocol directly to the XProtect® Server and the intercom behaves like another IP camera in the system

2-way audio – the operator or administrator can communicate with the visitor in front of the door directly via the the XProtect® Smart Client

Output control – outputs on the IP intercoms can be controlled by the operator directly from the XProtect® Smart Client to open doors, gates, switch on the lights, etc.

Trigger an alarm – the 2N IP Intercoms trigger an alarm in the XProtect® Smart Client upon a predefined action like button press, call state changed, card swipe, code entered, etc.

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
- 2N Intercoms: Firmware version 2.23 or higher
- License: Enhanced Video for RTSP streaming and ONVIF (Please request at integrations@2n.cz)
- Optional License: Enhanced Integration for HTTP API access and Automation function

Milestone software and license:

- XProtect® Essential+ 2017 R2 or higher
- XProtect® Express 2016 or higher
- XProtect® Express+ 2017 or higher
- XProtect® Professional 2016 or higher
- XProtect® Professional+ 2017 or higher
- XProtect® Expert 2016 or higher
- XProtect® Corporate 2016 or higher
- XProtect® Enterprise 2016

Integration features:

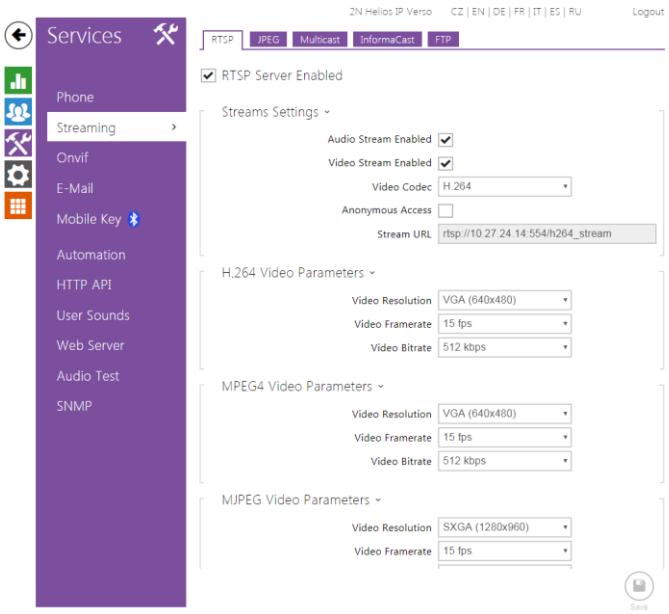
- Scan Device
- Video from 2N IP Intercom
- Audio from 2N IP Intercom
- Audio to 2N IP Intercom
- Switch control
- Events from 2N IP Intercom

Contact persons:

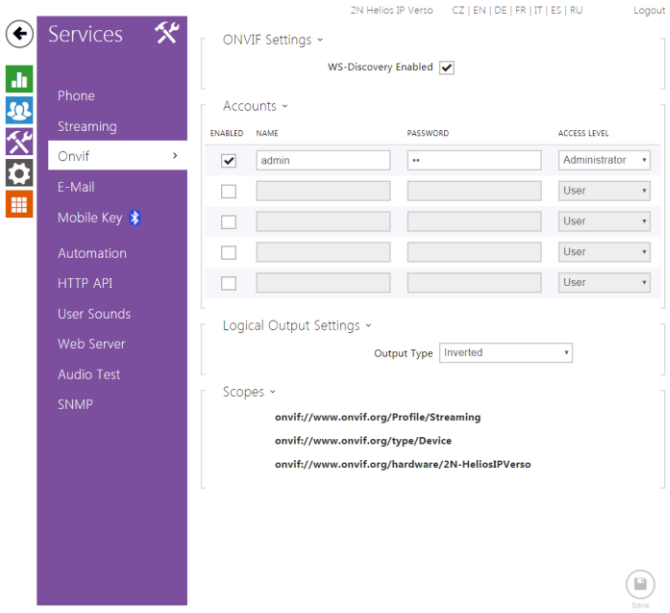
Business & Technical questions: integrations@2n.cz

2N Intercom Settings

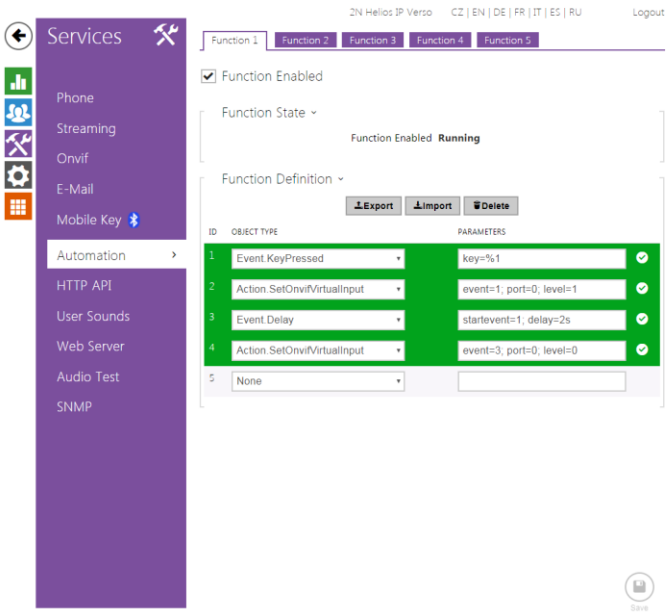
1. Enable parameter RTSP Server Enabled in menu Services / Streaming.



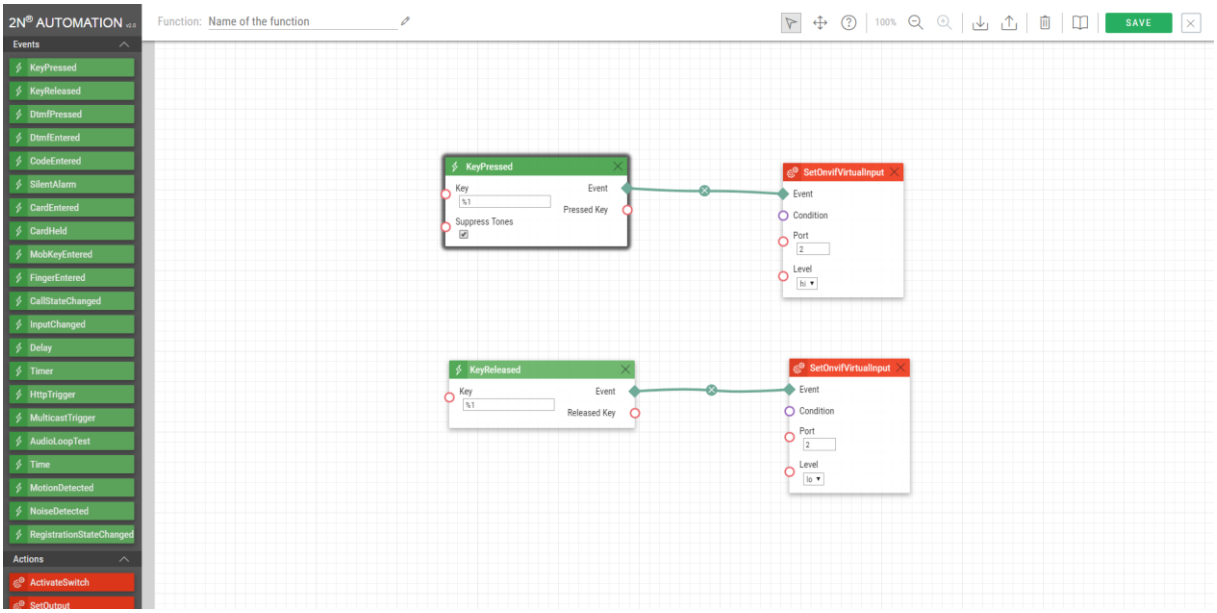
2. Enable Onvif and set authorisation data in menu Services / Onvif.



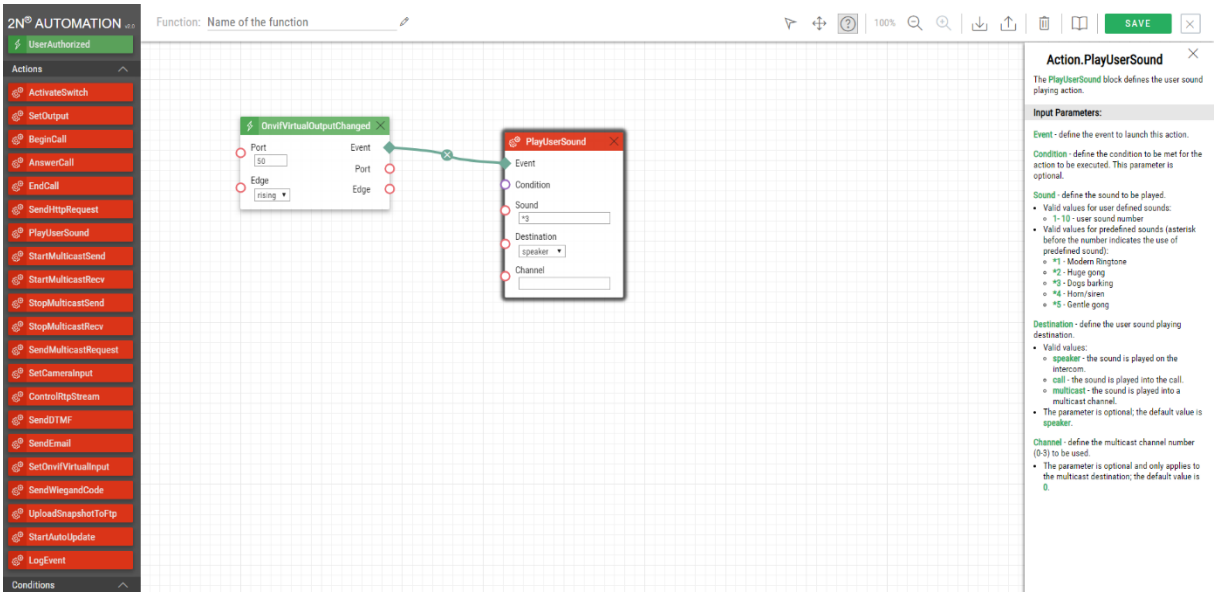
3. Go to Service – Automation and fill function for alarm settings in Milestone.



This is step configuration for firmware 2.22 and higher.



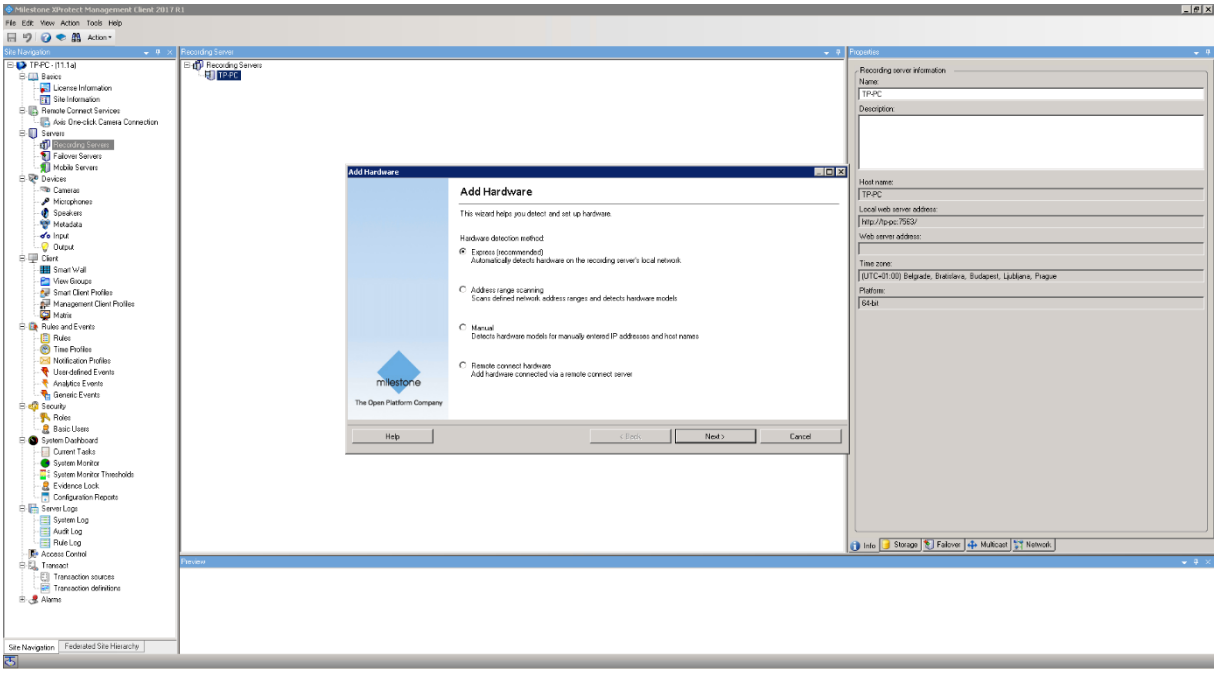
4. If you want to use function OnvifVirtualOutputChanged you have to set automation function. This function is possible use for play user sound or next actions that are defined in automation. Settings for Milestone XProtect is in chapter Switch control.



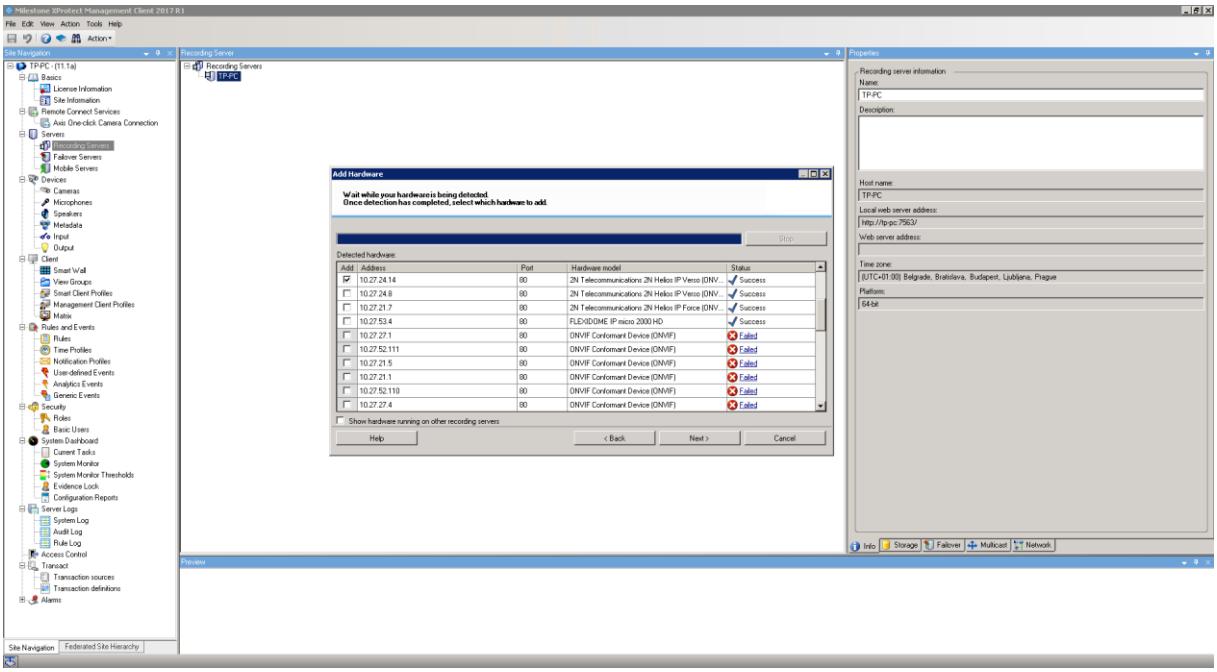
Tested Features

1. Scan Device

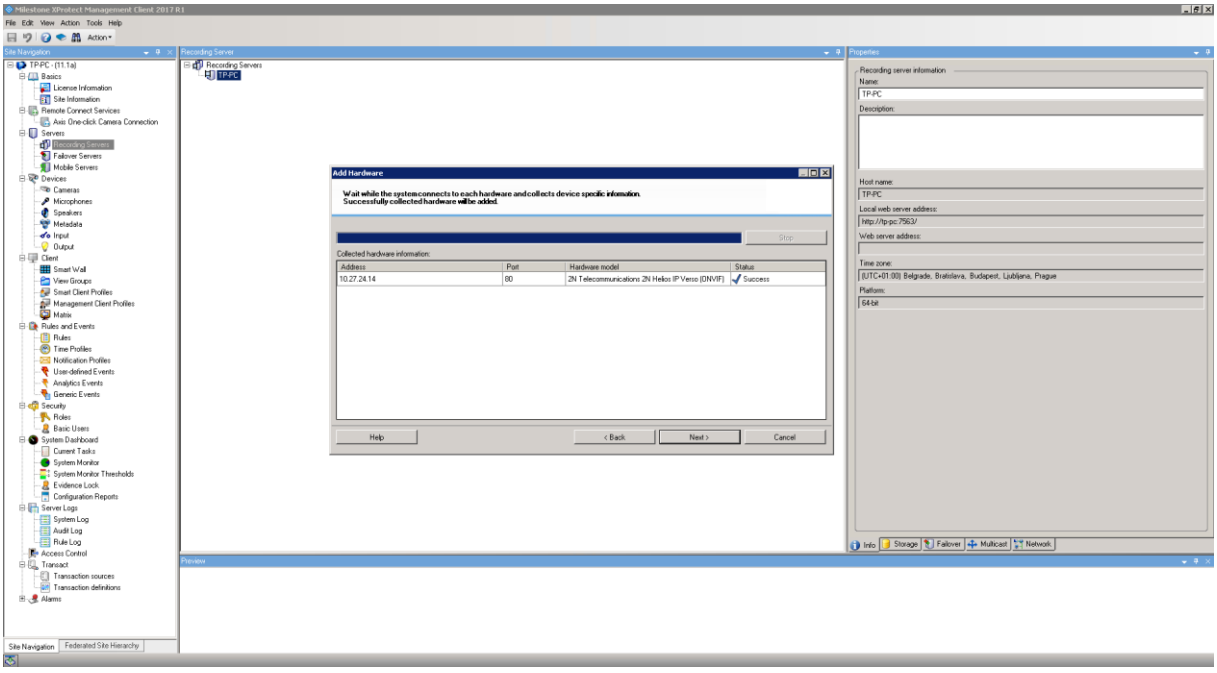
1. On the side of Milestone server go to section "Servers/Recording servers". Do a right click on your recording server and choose "Add Hardware" (if server is not authorized yet, then you have to click on "Authorize first"). Now click on "Add" to add a new device fill credentials that you choosed for Onvif account in the intercom (in our case it is ONVIF/ONVIF). Then click on next.



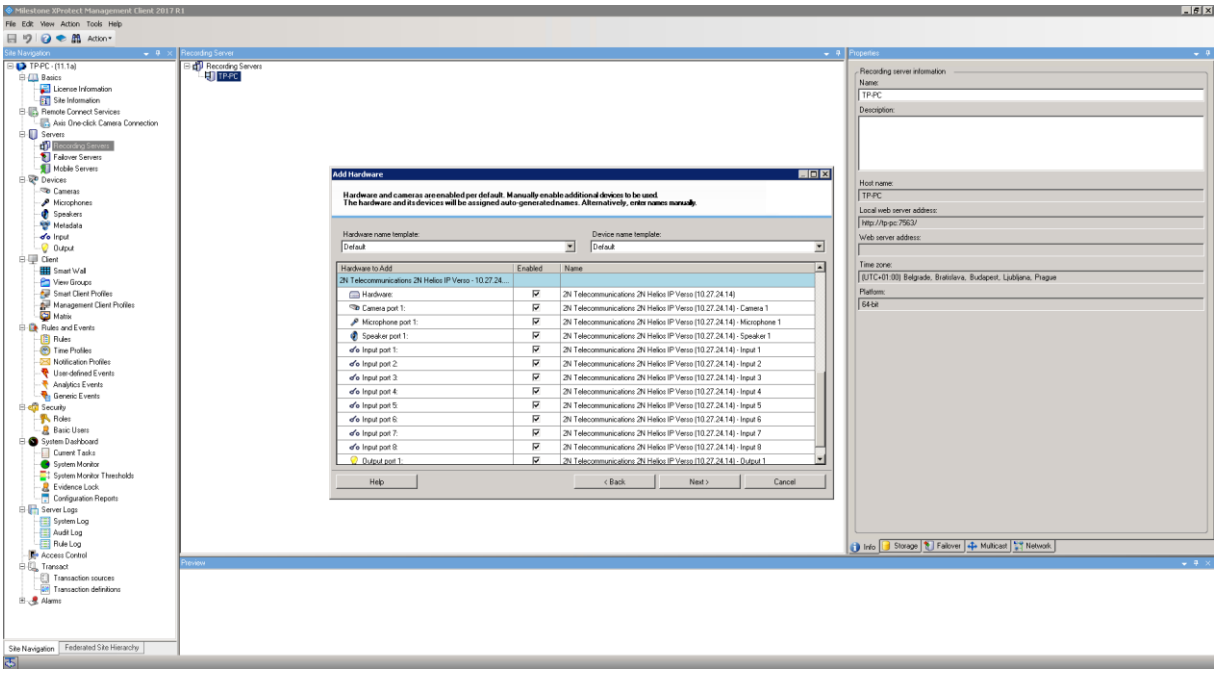
Now Milestone will search for ONVIF devices in your network, once the intercom will be found, it will appear with label "Successfull". If intercom is not checked, then please do so and click on "Next".



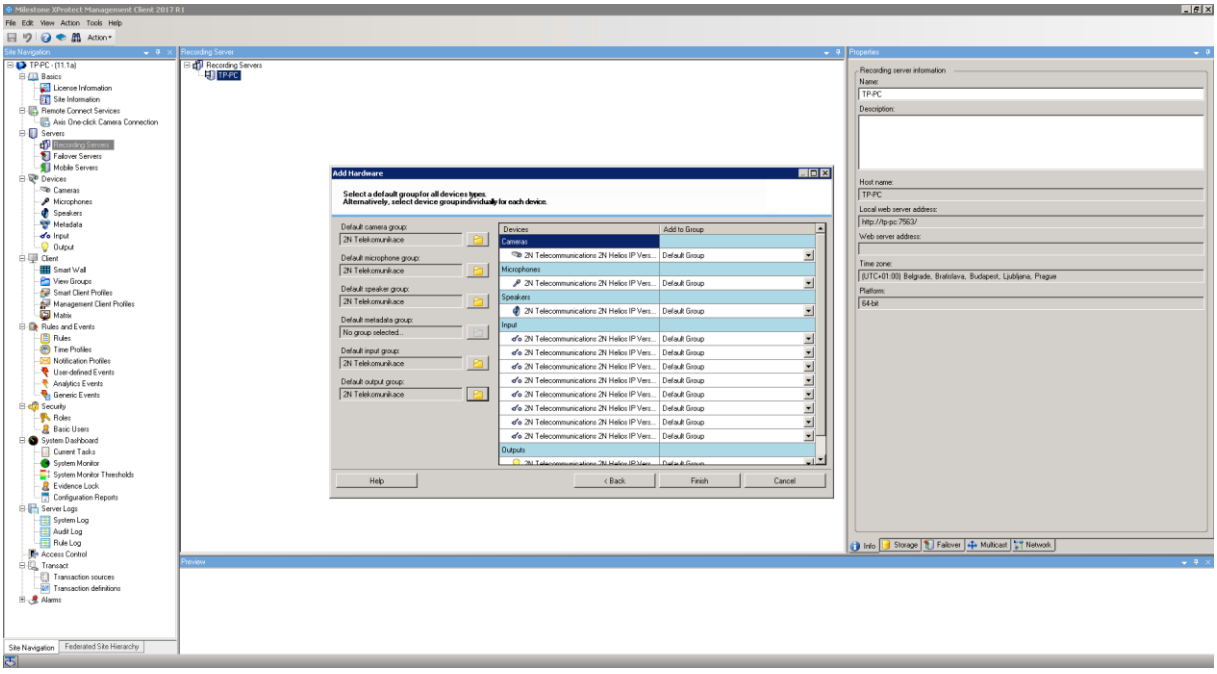
On next screen you will see successfully added devices, just click on "Next" again.



Now you have to choose HW from available peripheries of the intercom by checking the items. Typicaly you will use camera, microphone, speaker and some outputs (active ouput, relays). So just check desired HW and click on "Next".

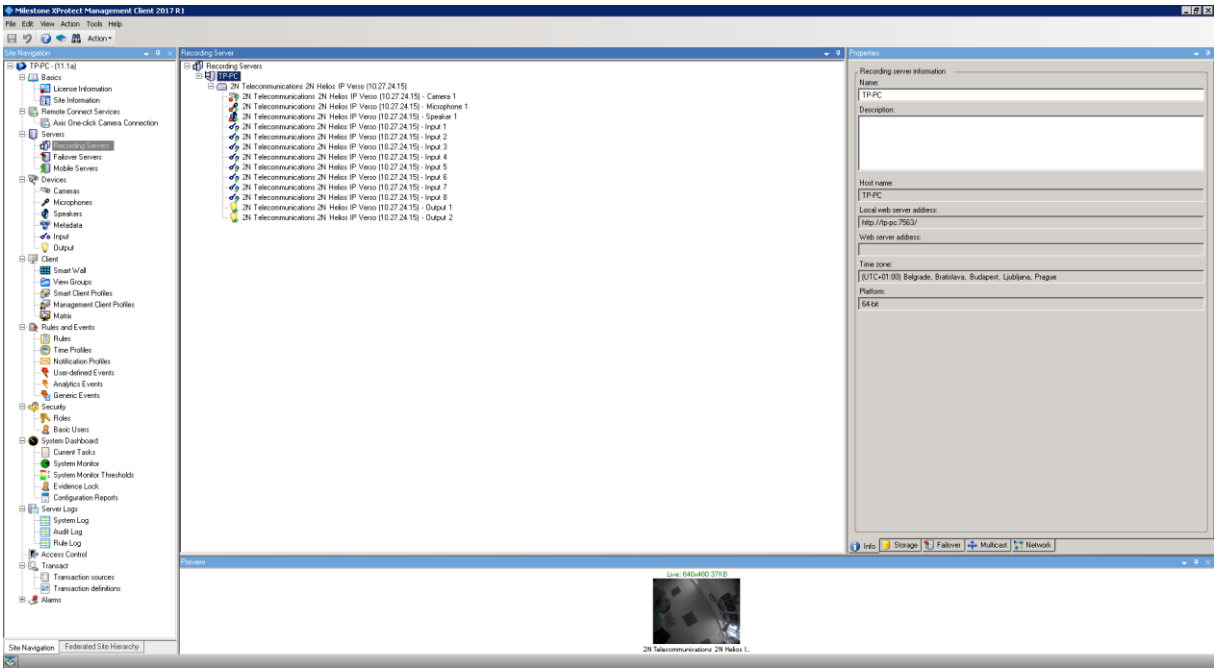


In next step, you have to add the choosen HW to groups. If you did not create the groups yet, you have to do it now. Click on folder of particular group and then click on plus. Group will be added with default name, you can change it once you will add it. Once you will add the group, make sure that you marked it with cursor (it has to be blue) and then click on "ok". This will set the group as default group for this type of HW. Do the same for all groups. Once you will create new deafult groups just click on "Finish".



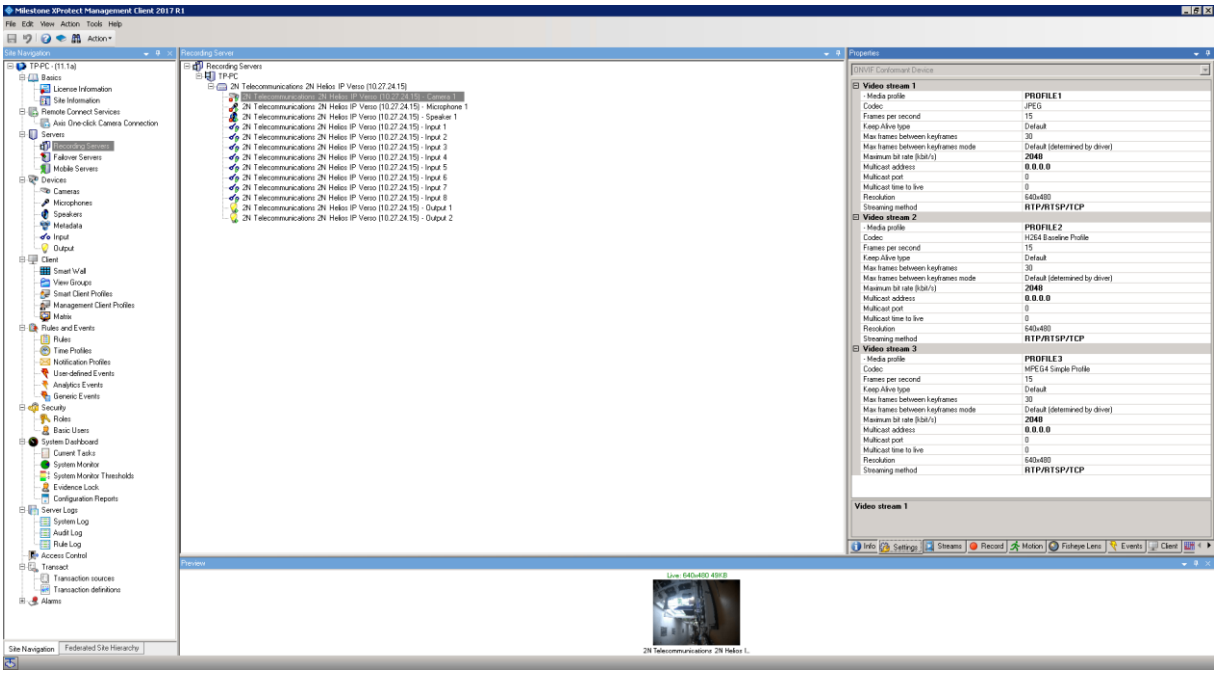
Once the procedure is finished, you will see added devices and their peripheries. You can also add the peripheries you did not add before to groups (not added peripheries are marked with

red cross). Optionally you can rename the device and also the peripheries here. Also you will see video from camera here. If Milestone is not able to connect to the camera, then please check your firewall settings!

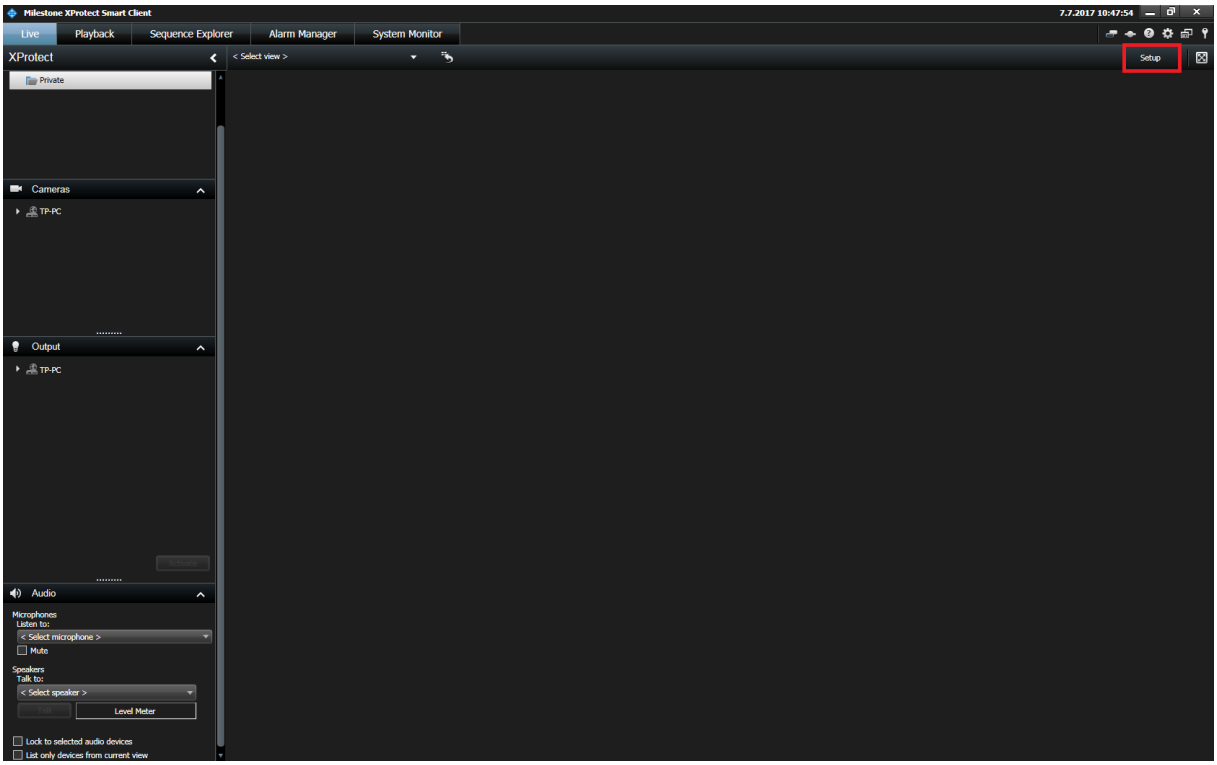


2. Video from 2N IP Intercom

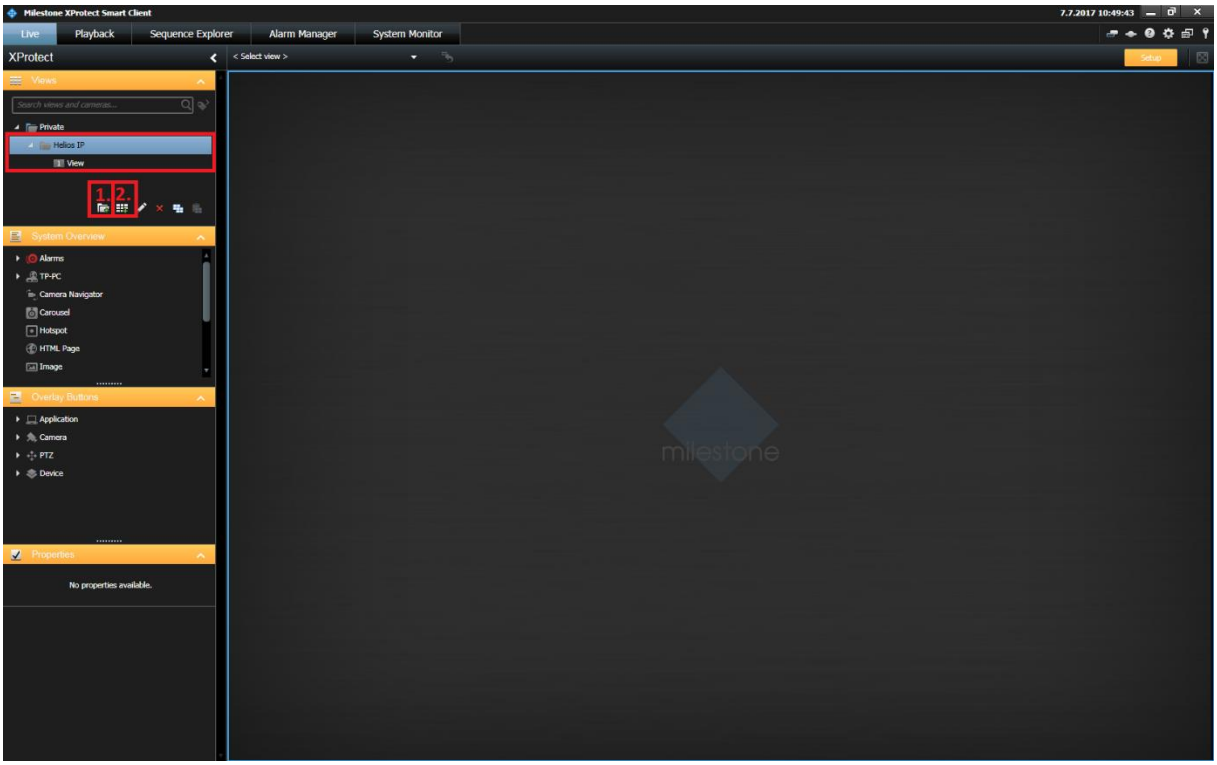
Now you can set video parameters, for example resolutions, codec ….



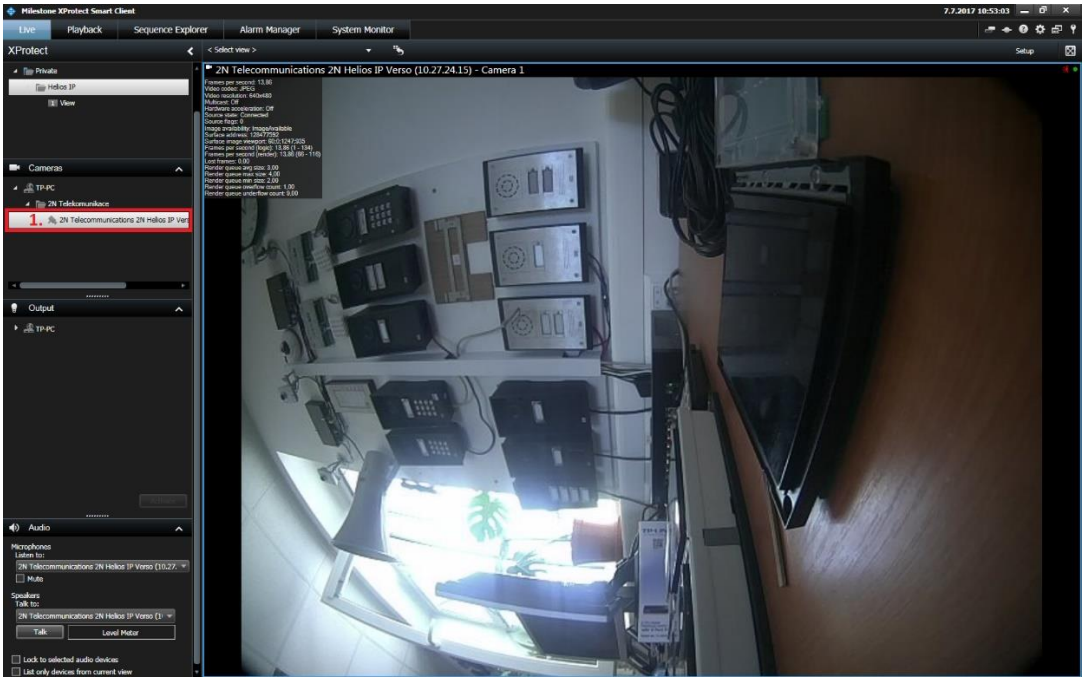
Double-click the shortcut icon XProtect Smart Client on the desktop. The login screen is shown. Type your user name in the User name box, and your password in the Password box. Click Login. After successful login you should add your camera. Go to menu Setup.



Add group, add new view and close to Setup.

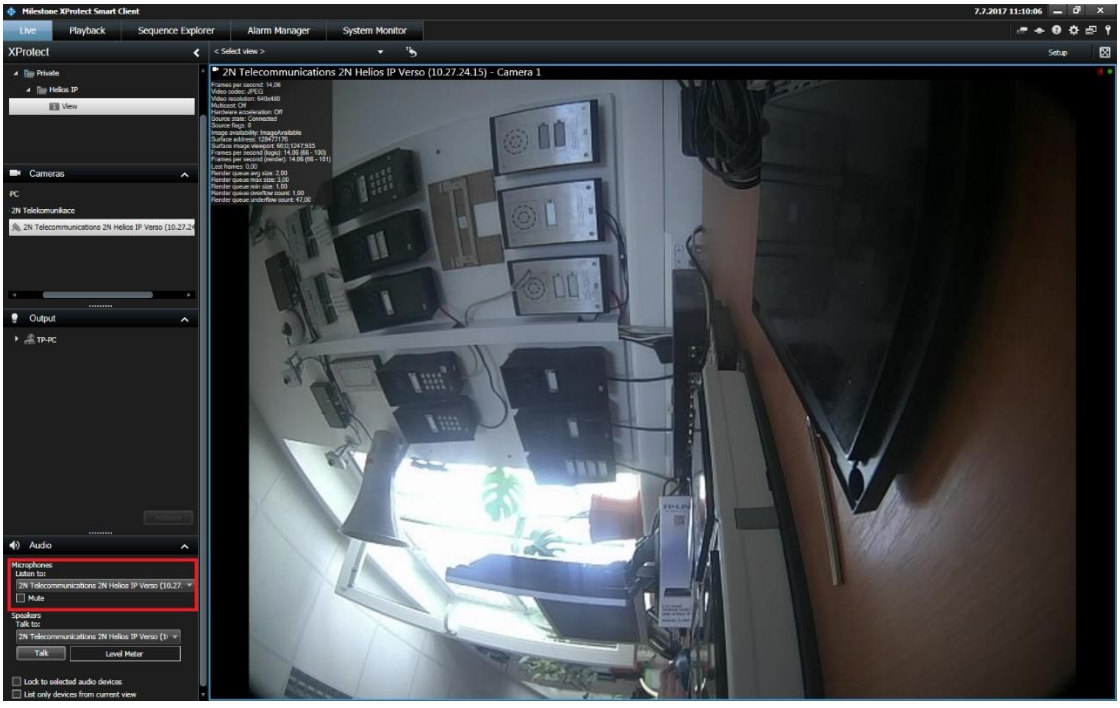


Adding a Camera to a View: Drag selected camera and drop it into your View from the camera tree.



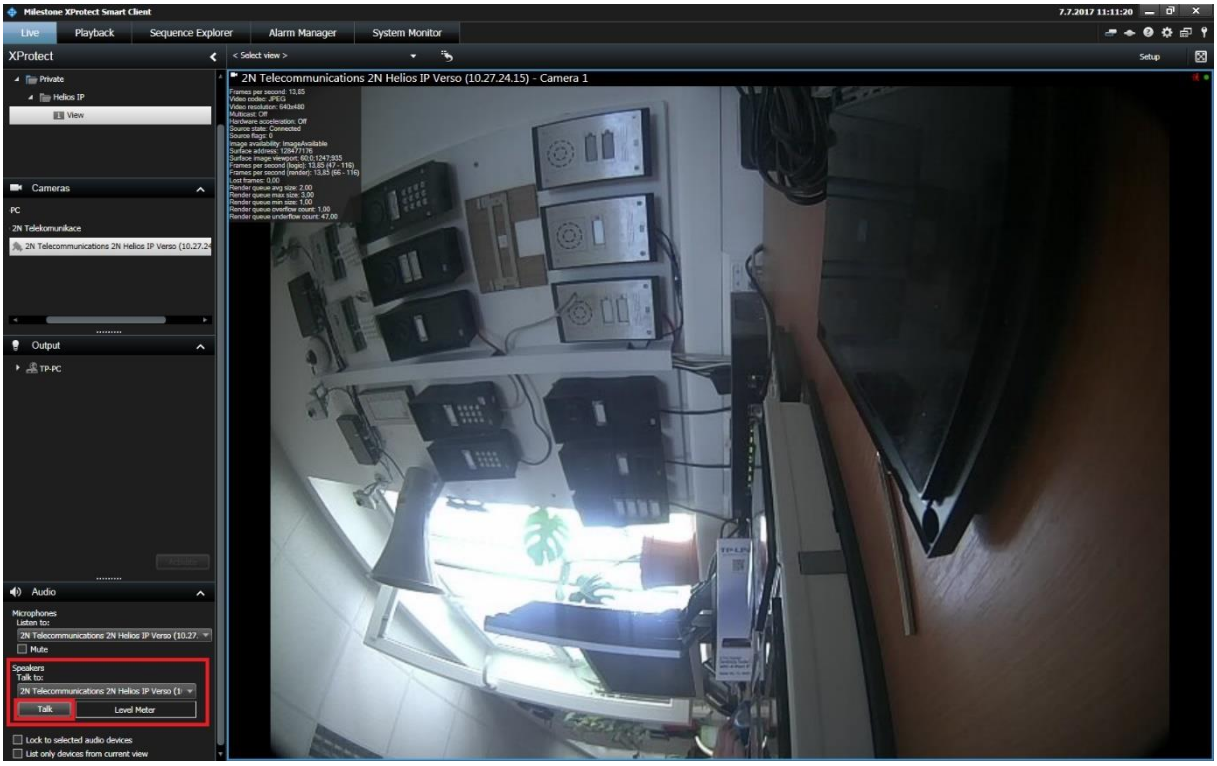
3. Audio from 2N IP Intercom

In the XProtect Smart Client you should hear audio from 2N IP Intercom. After you add your camera, drag selected camera and drop it into your View from the camera tree. And then you can hear audio from 2N IP Intercom.



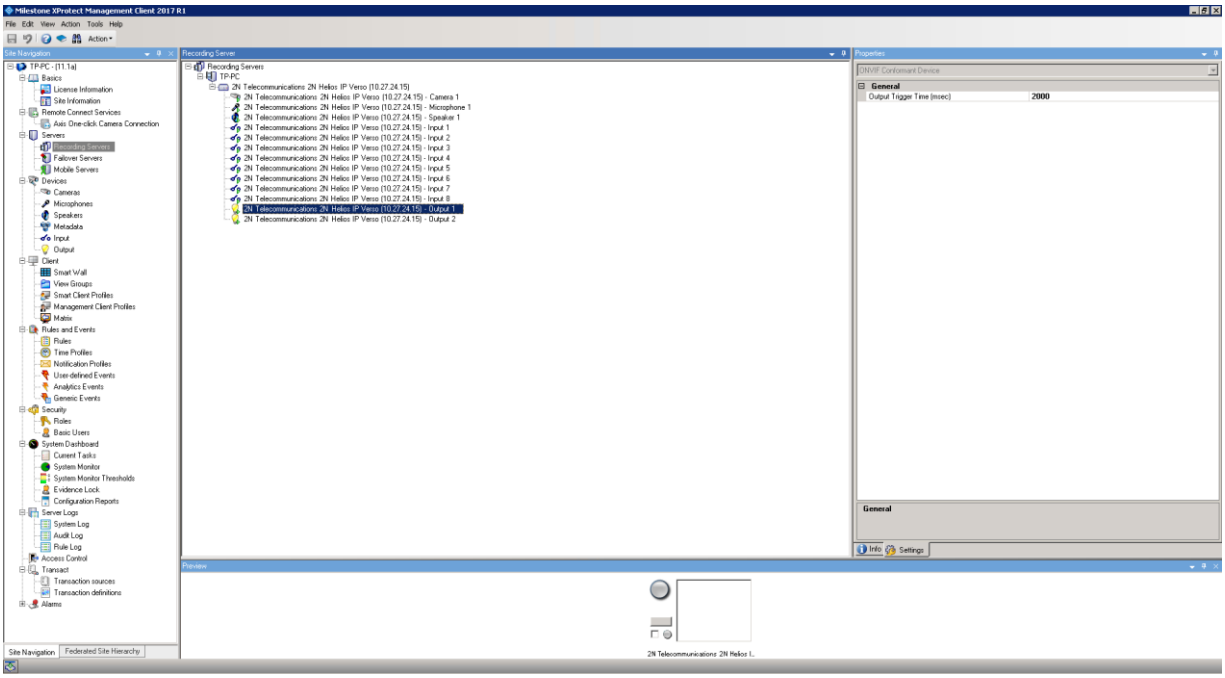
Audio to 2N IP Intercom

In the XProtect Smart Client you should talk to 2N IP Intercom. After you add your camera, drag selected camera and drop it into your View from the camera tree. And then you can press button and talk.

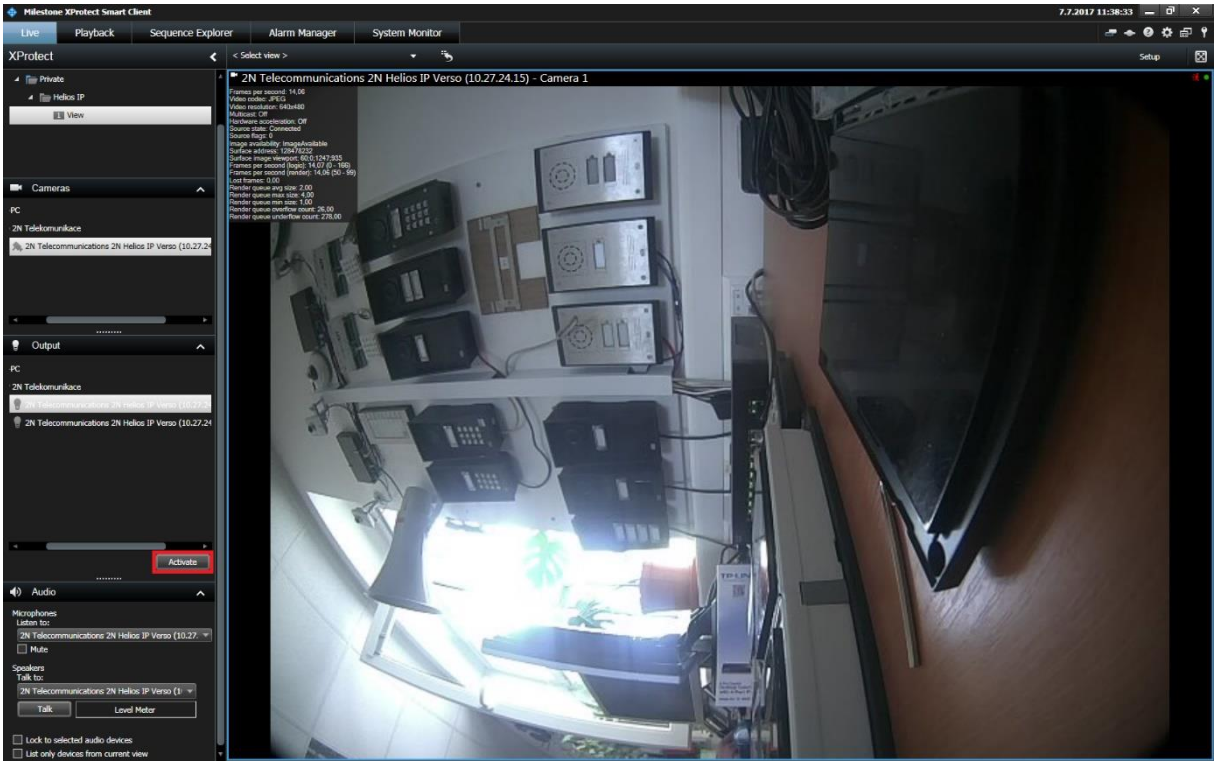


4. Switch control

In the XProtect Management Client you can set Output Trigger Time for your Outputs.

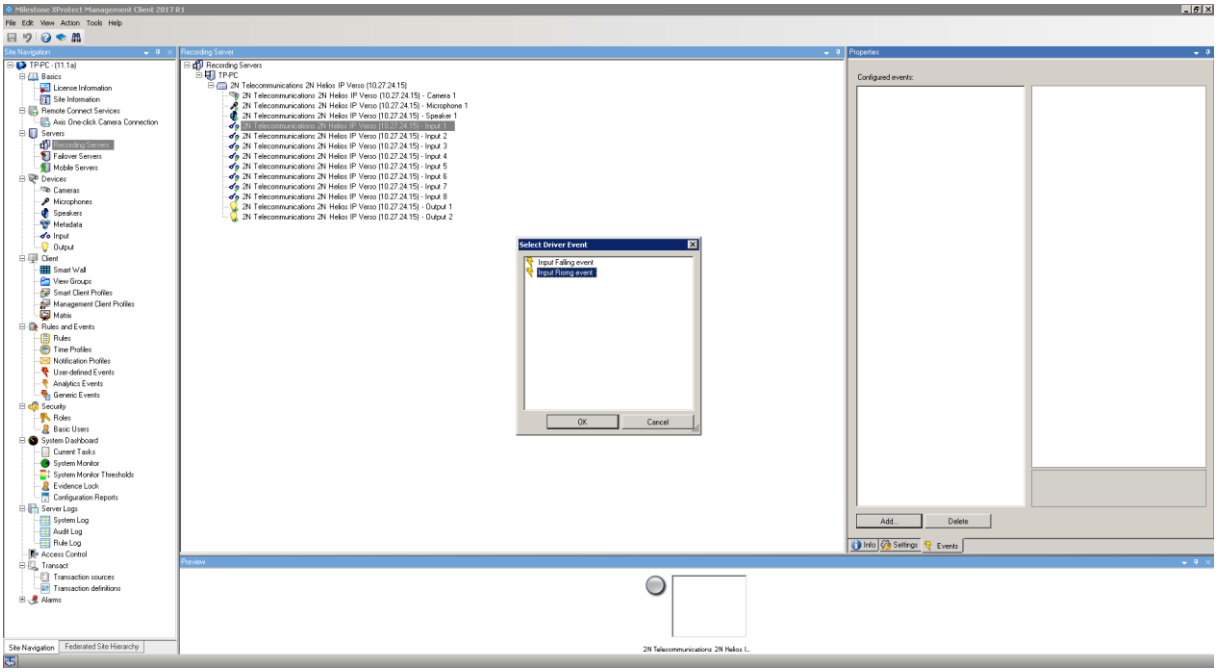


And in the XProtect Smart Client you should set outputs of 2N IP Intercom. After you add your camera, set one of Digital outputs 2N IP Intercom and with the active the output.

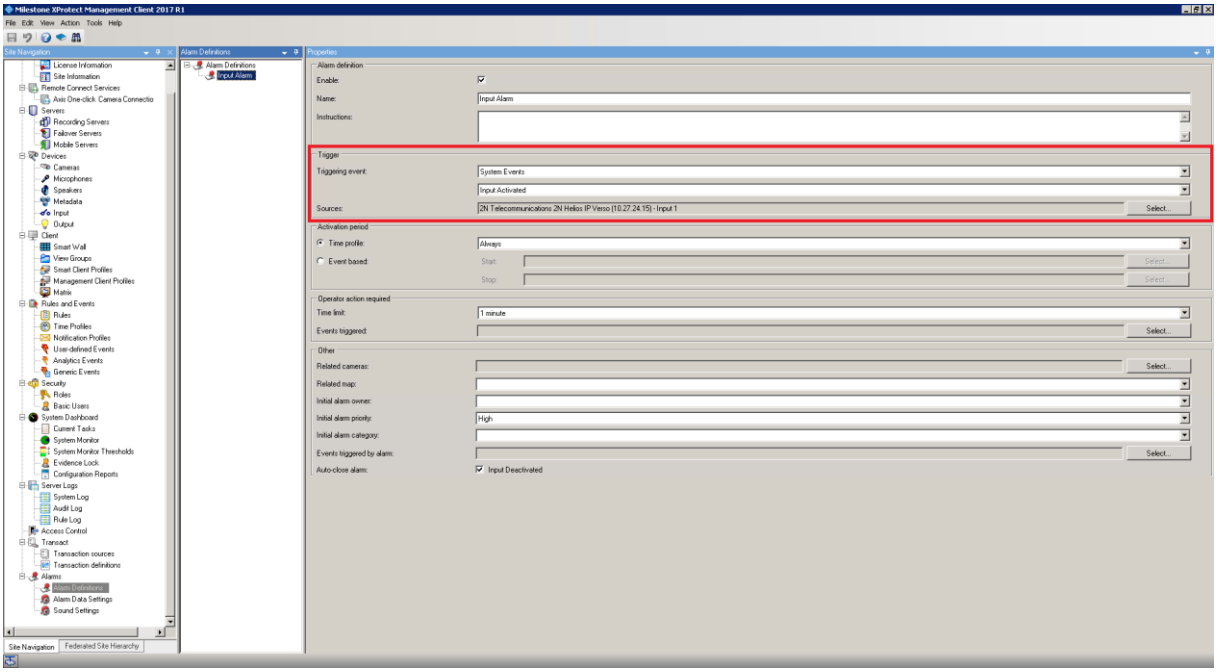


5. Events from 2N IP Intercom

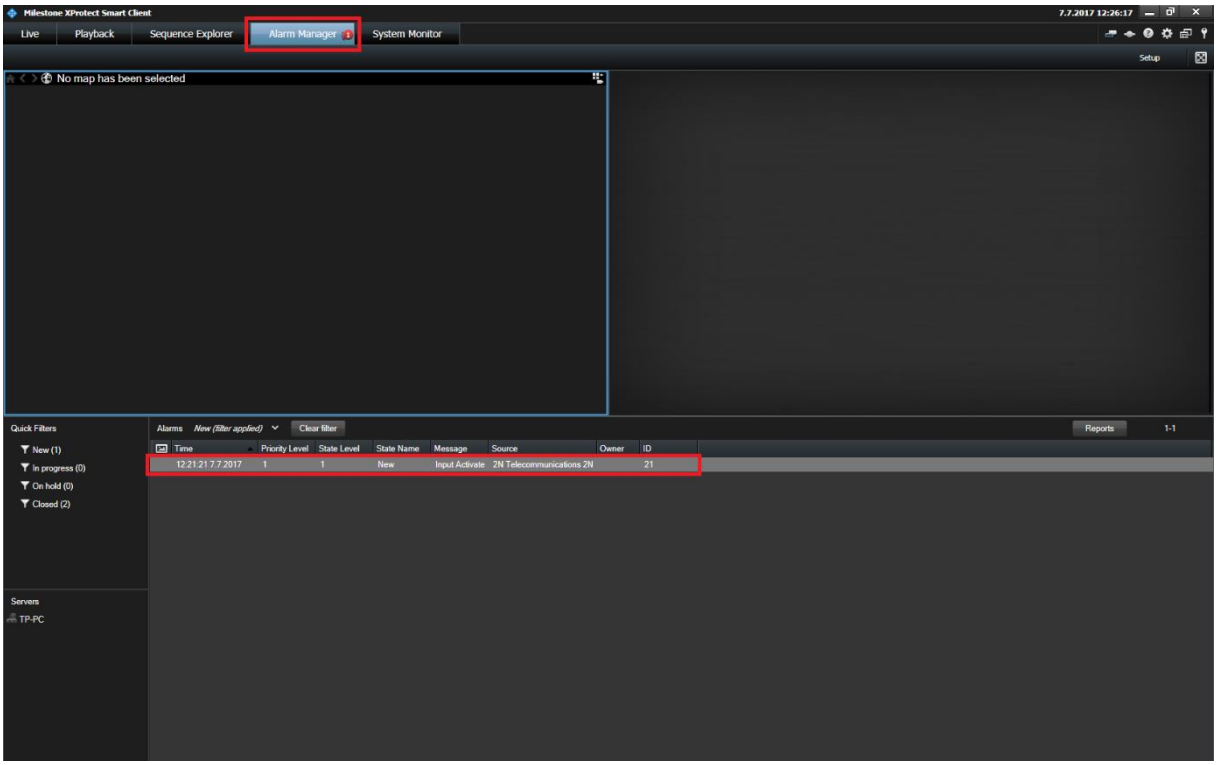
As an example an alarm raised when 2N IP Intercom digital input is activated will be configured. Alarm will be raised when a Hardware Input Event is registered in Milestone VMS. Add Input Rising Event and Input Falling Event for correct function alarm.



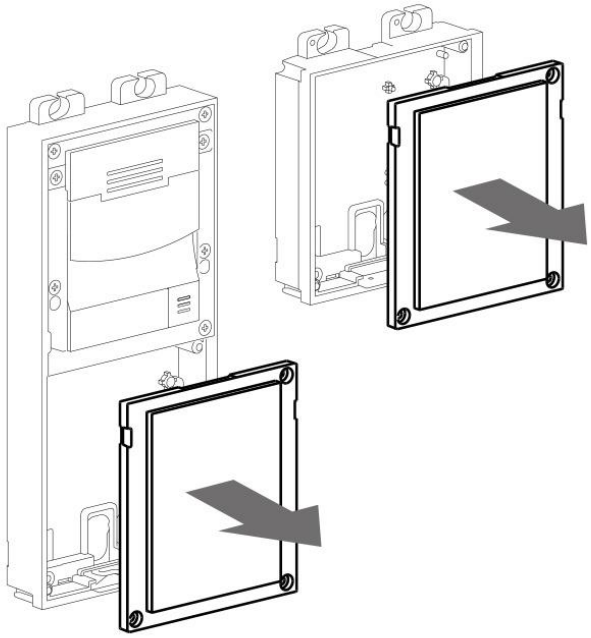
Now new Alarm Definition is to be created. Select Create New Alarm, set the parameters for input and click to Save.

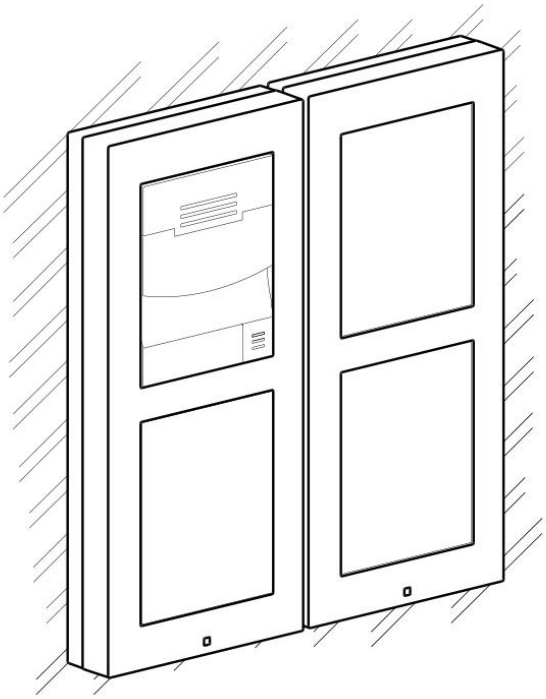


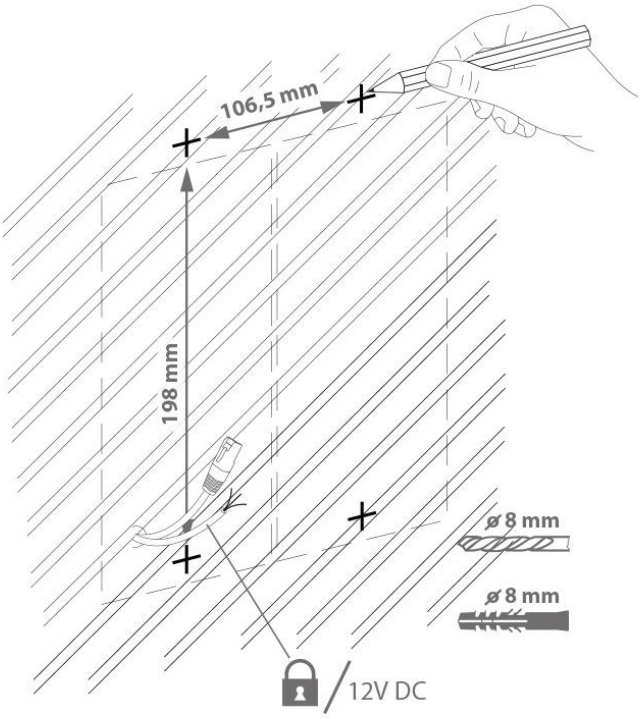
When the input is activated, the alarm event will appear in the Milestone XProtect Smart Client.

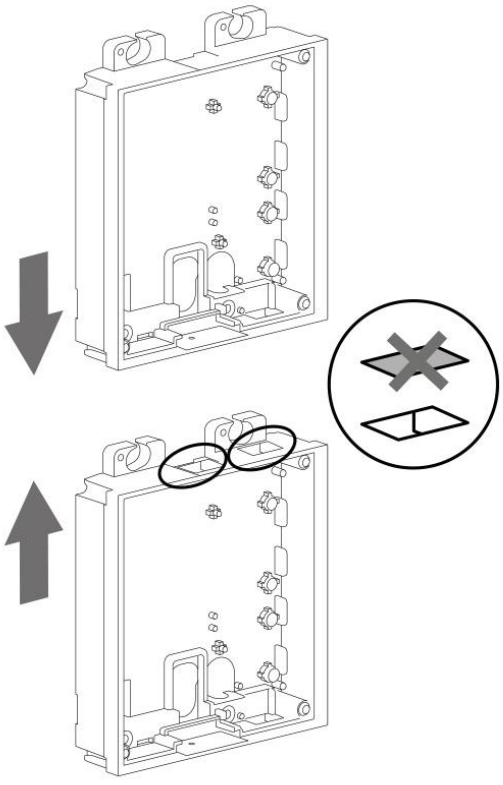


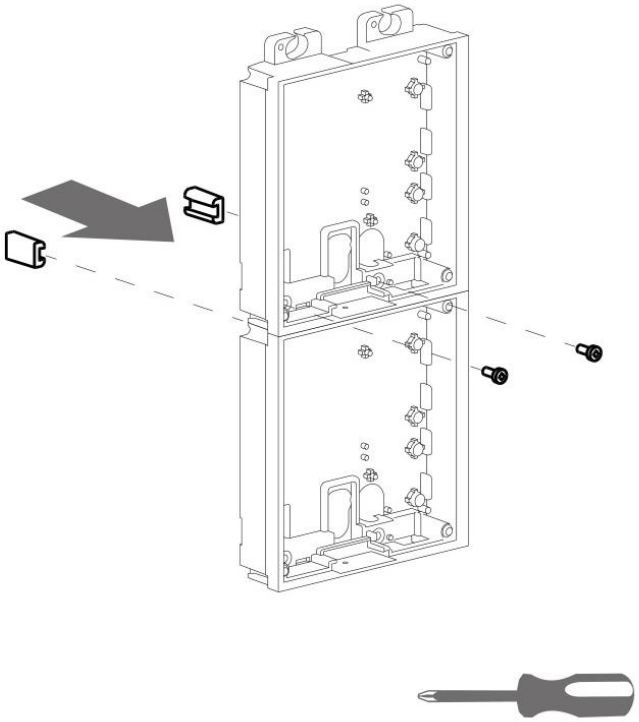
Manual Installation - Surface module mounting

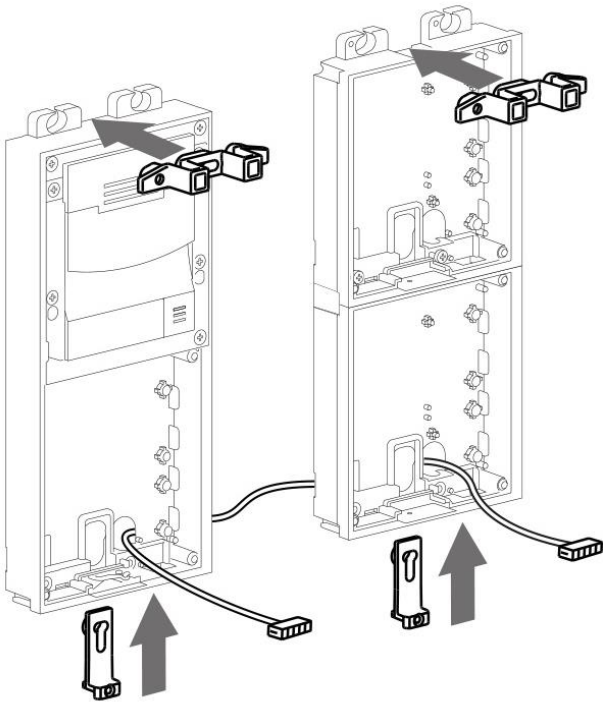


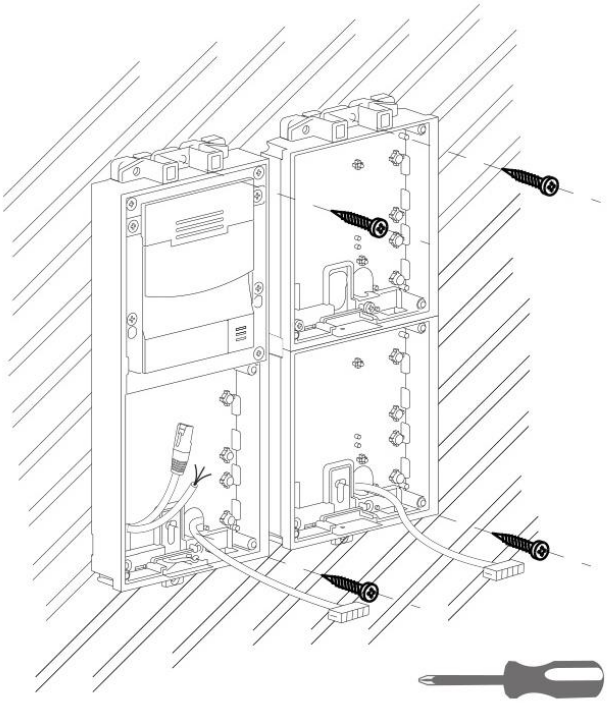


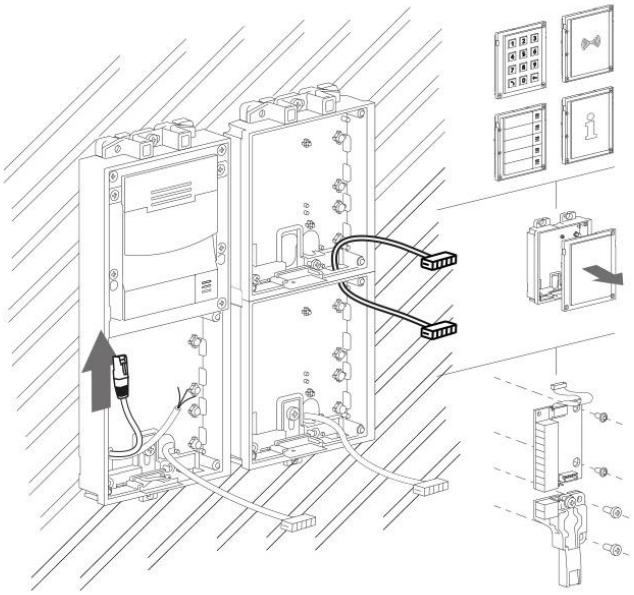

106,5 mm
198 mm
ø 8 mm
ø 8 mm
12V DC

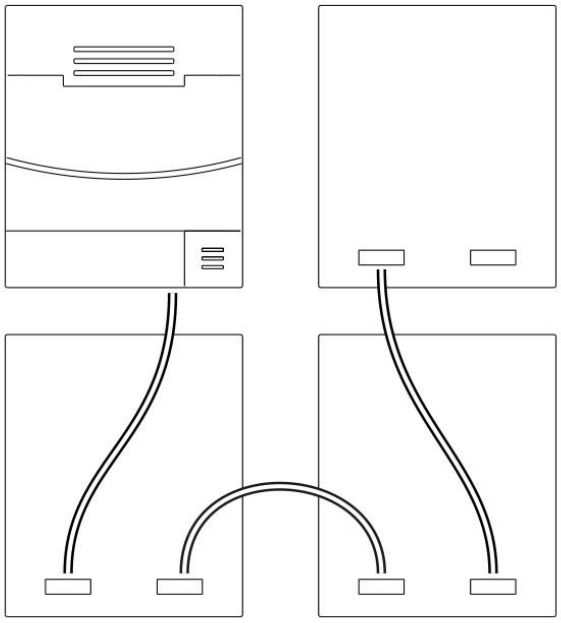


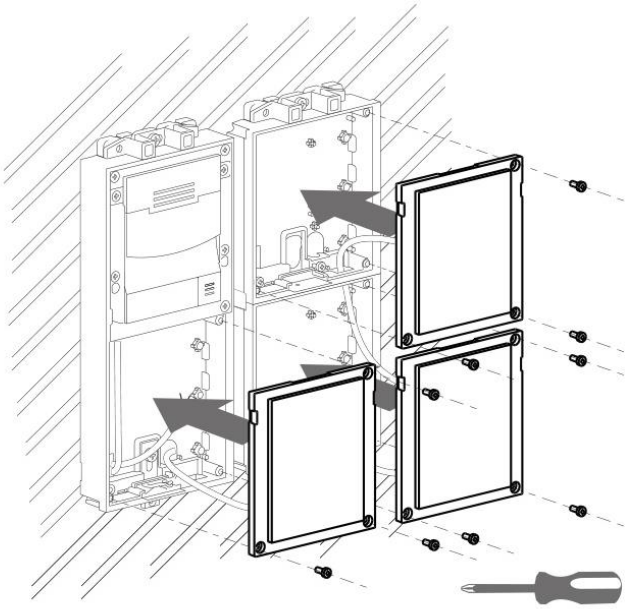


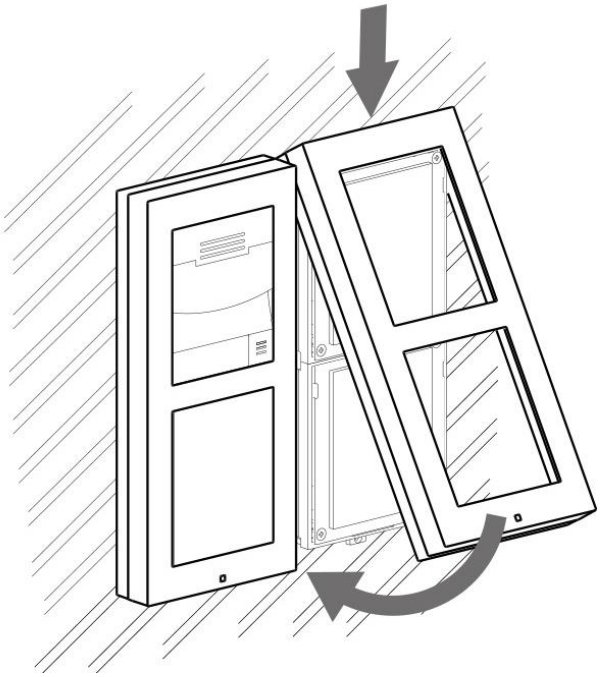


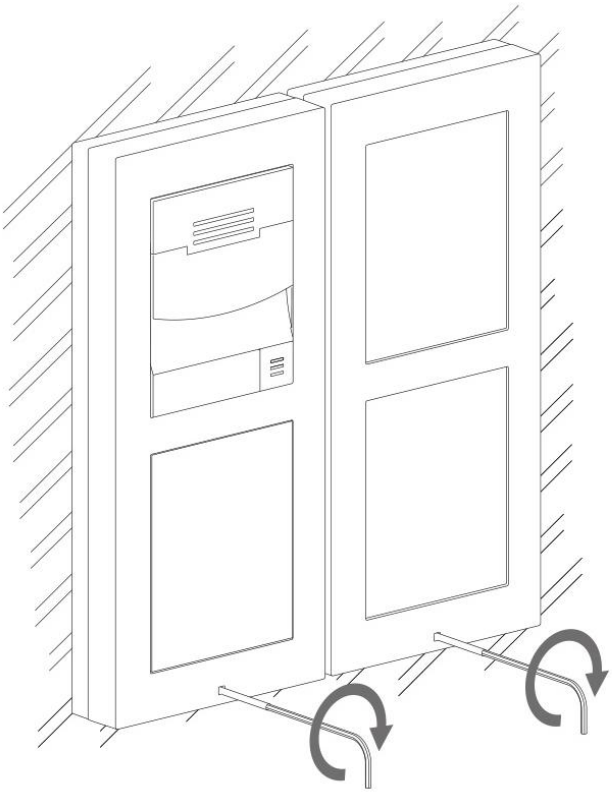












Configuration

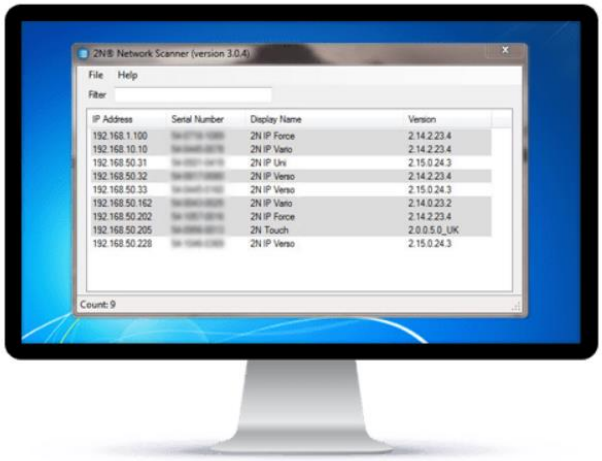
Configure 2N® IP Verso using your PC with any internet browser:

- 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.

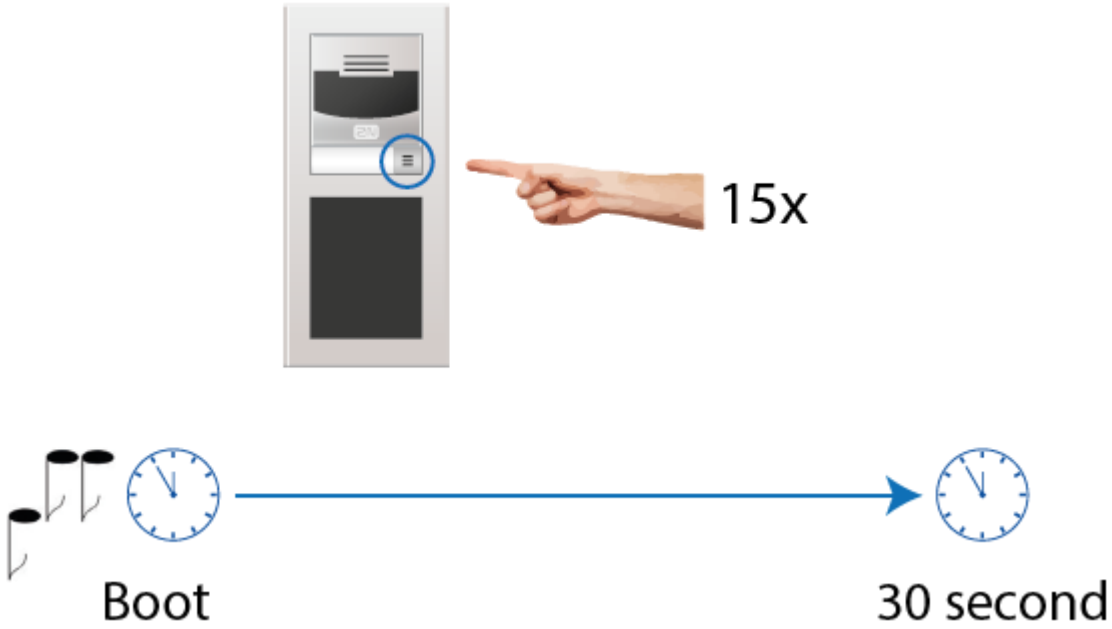
Note: Be sure to press the button sequence within thirty seconds after the sound signal for security reasons. Up to 2 s intervals are allowed between the presses.

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.