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Integration Manual
Milestone XProtect® 2N® IP Intercoms



Integration of Milestone XProtect® with 2N® IP Intercoms

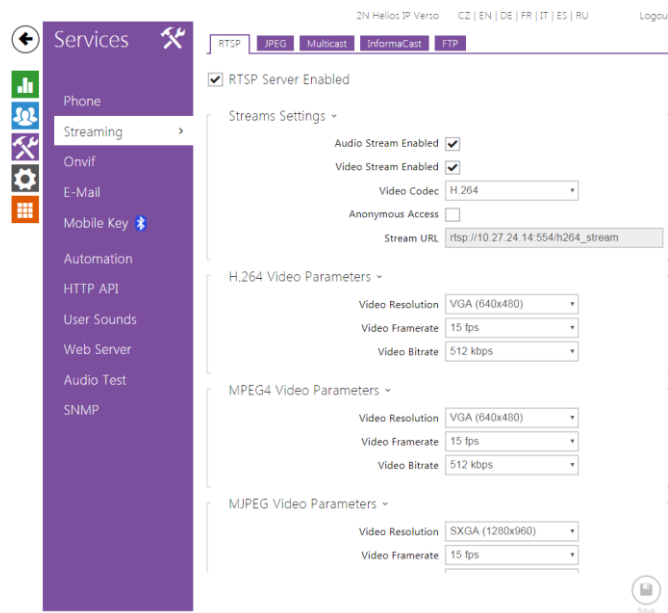
Description of included hardware and licences

2N IP intercoms are standalone IP devices designed to increase the security of a building and people living or working inside. Intercoms provide a comfortable and reliable communication under all circumstances. The portfolio consists of different models from the basic audio-only units, through highly ruggedized emergency models to industry leading top of the line sophisticated intercoms. Thanks to the wide range of models 2N Intercoms are suitable for any commercial and residential building.

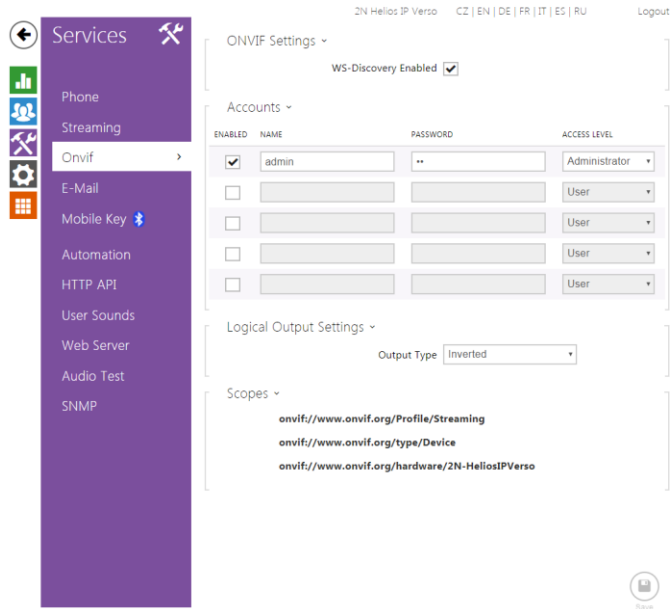
- 2N Intercoms: Firmware version 2.23 or higher
- License: Enhanced Video for RTSP streaming and ONVIF
- Optional License: Enhanced Integration for HTTP API access and Automation function
- [License for Milestone Xprotect](#)

2N Intercom Settings

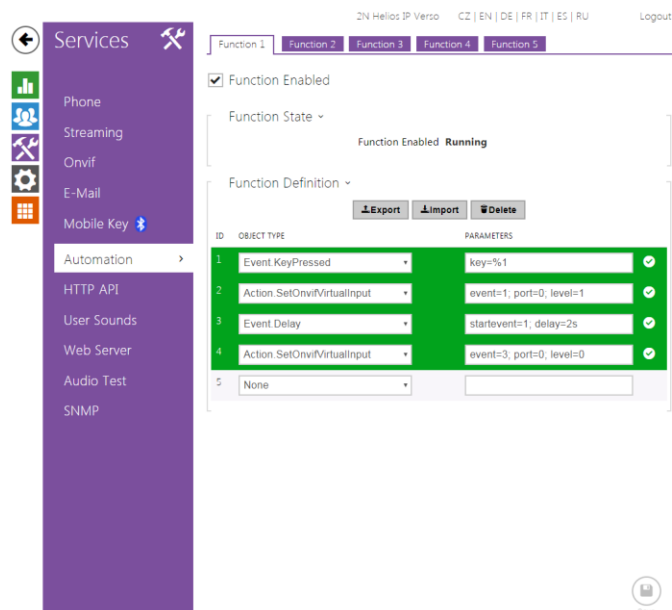
1. Enable parameter RTSP Server Enabled in menu Services / Streaming.



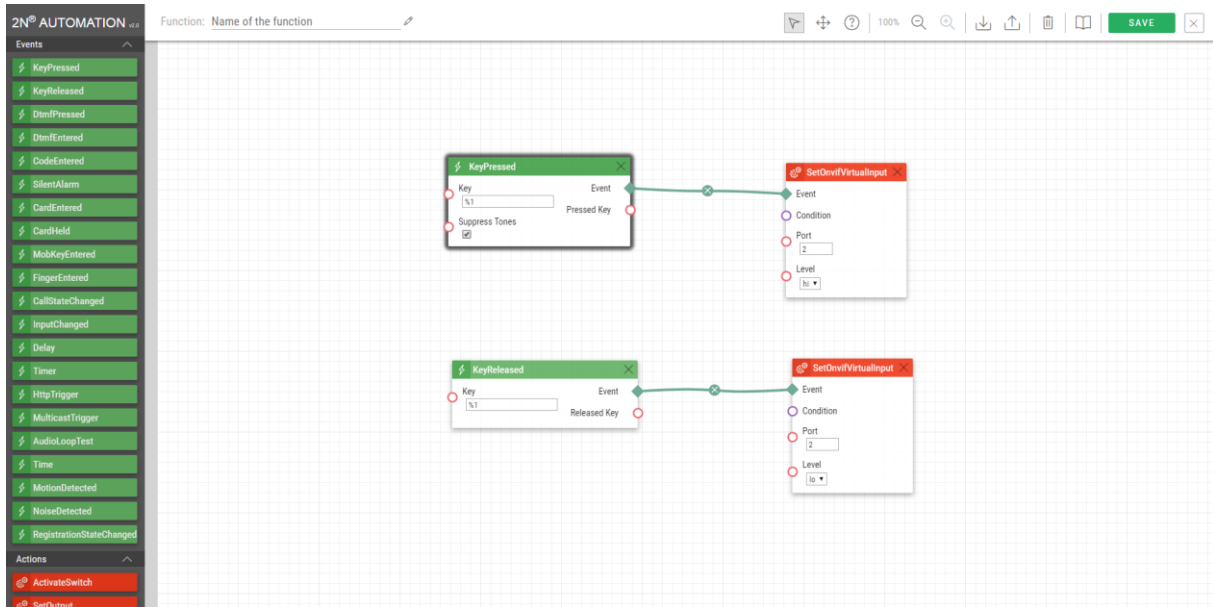
2. Enable Onvif and set authorisation data in menu Services / Onvif.



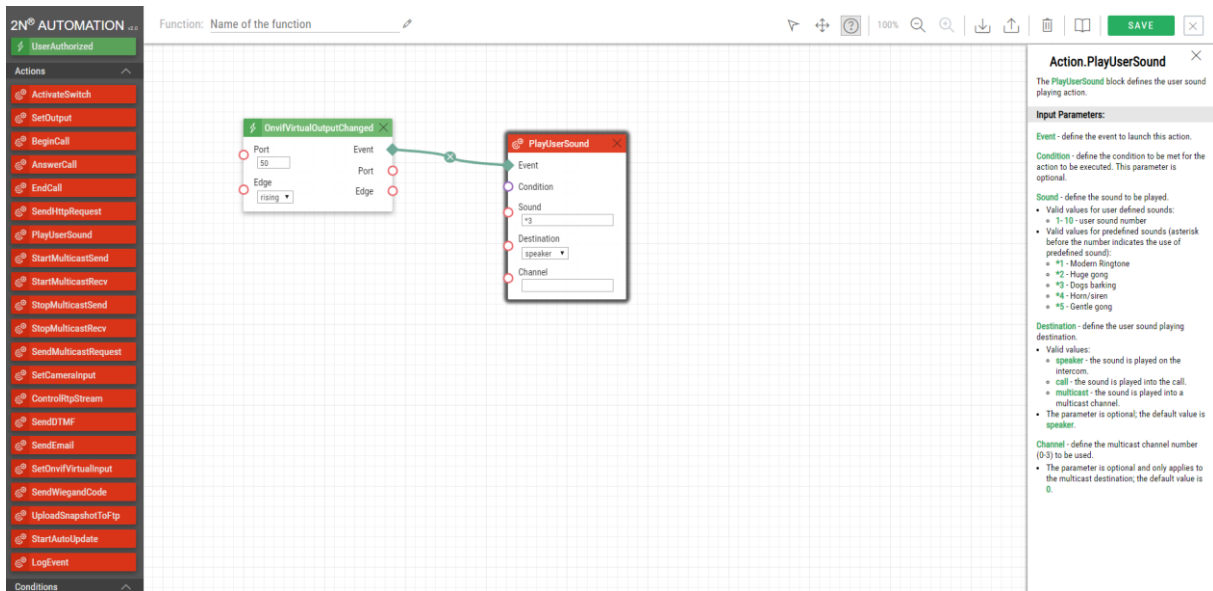
3. Go to Service – Automation and fill function for alarm settings in Milestone.



4. This is step configuration for firmware 2.22 and higher.



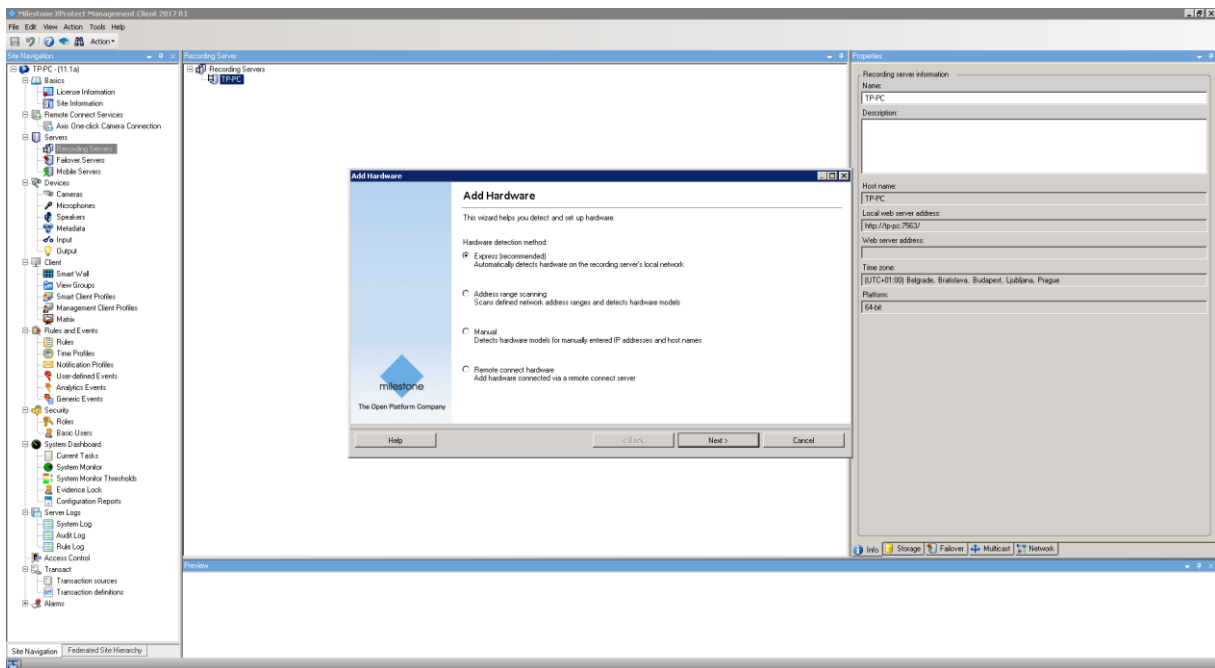
5. If you want to use function OnvifVirtualOutputChanged you have to set automation function. This function is possible use for play user sound or next actions that are defined in automation. Settings for Milestone XProtect is in chapter Switch control.



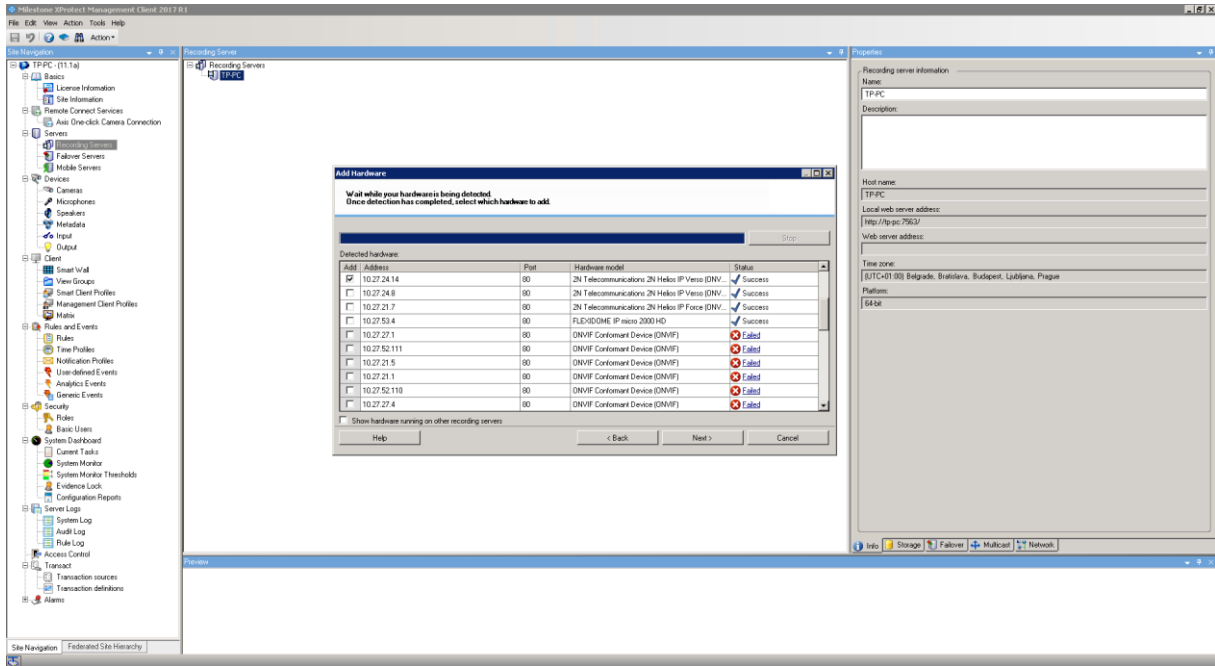
Tested Features

1. Scan Device

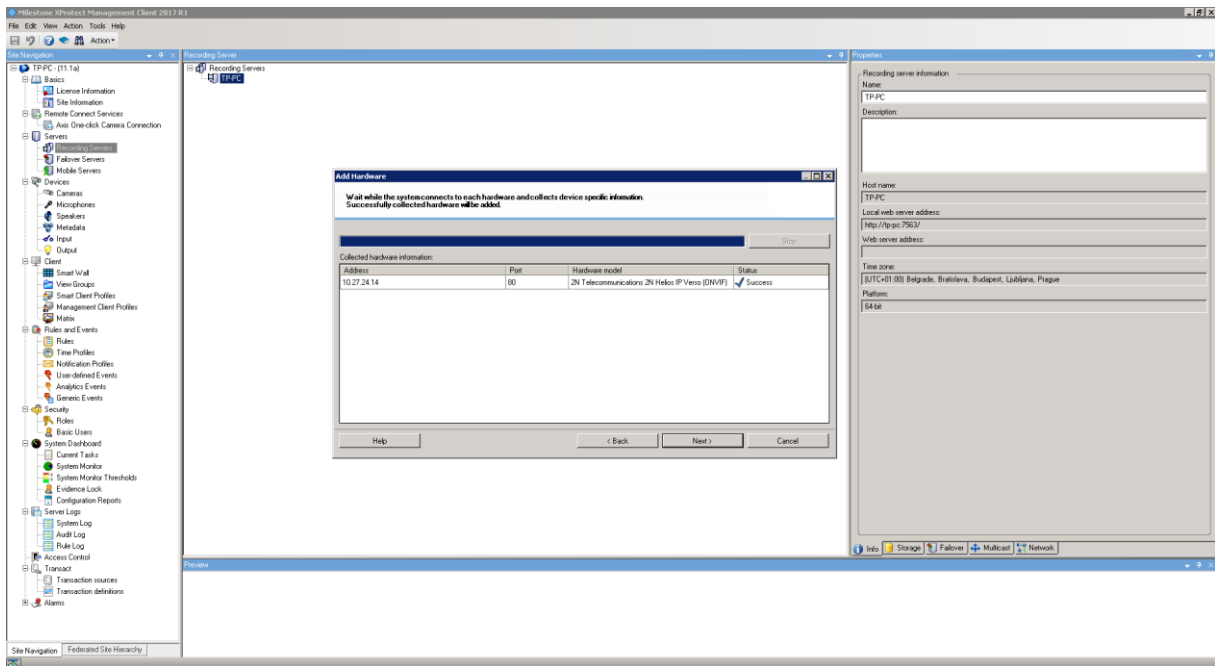
1. On the side of Milestone server go to section "Servers/Recording servers". Do a right click on your recording server and choose "Add Hardware" (if server is not authorized yet, then you have to click on "Authorize first"). Now click on "Add" to add a new device fill credentials that you choosed for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



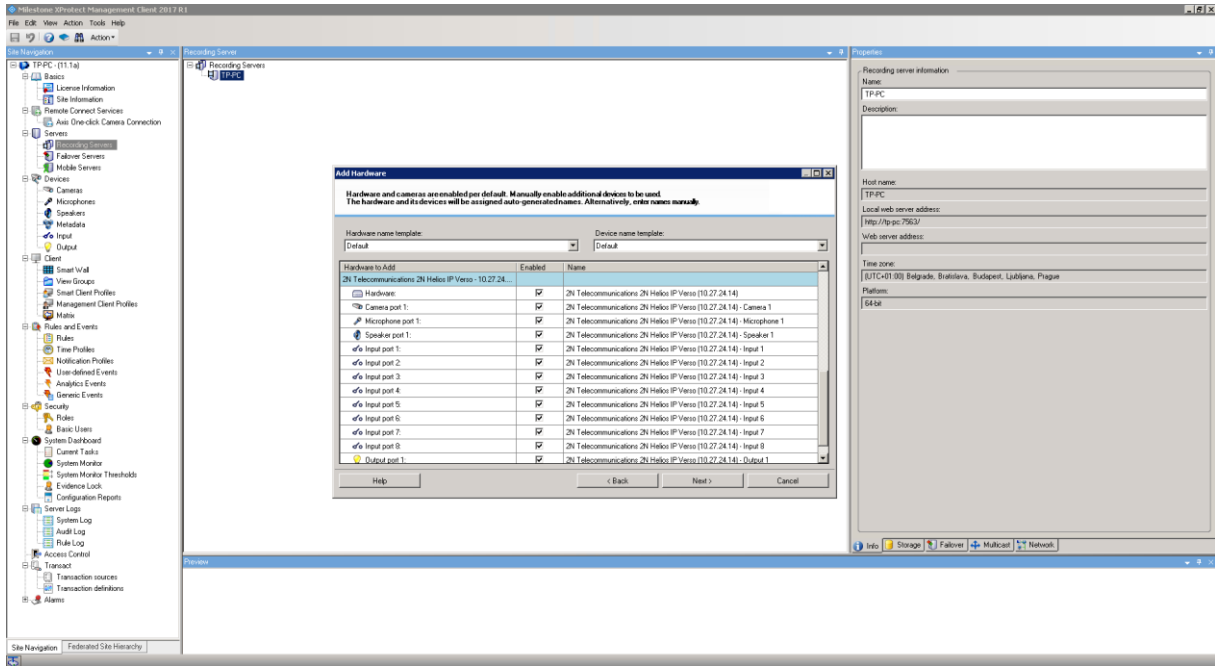
Now Milestone will search for ONVIF devices in your network, once the intercom will be found, it will appear with label "Successful". If intercom is not checked, then please do so and click on "Next".



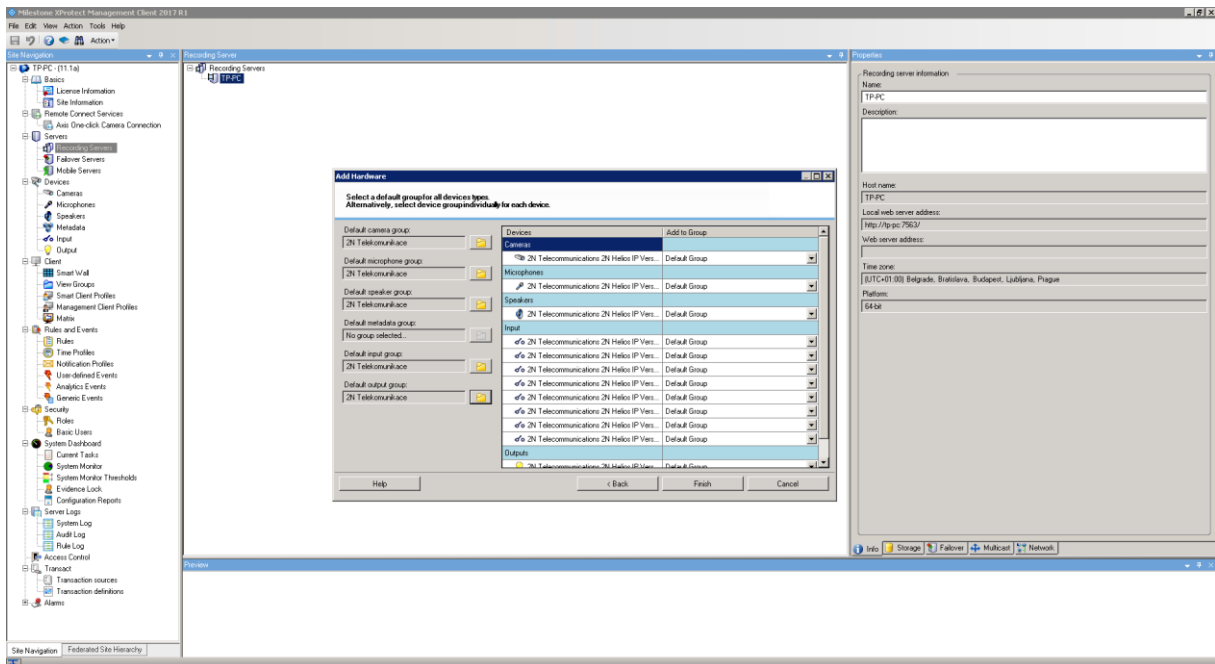
On next screen you will see successfully added devices, just click on "Next" again.



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

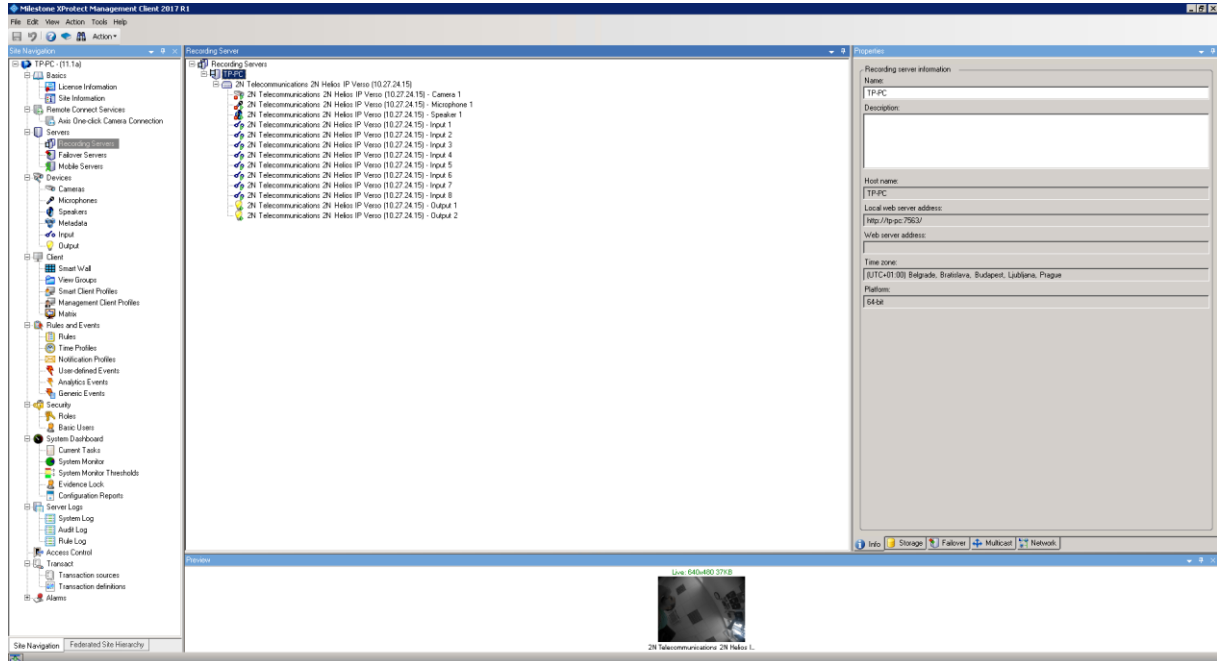


In next step, you have to add the chosen HW to groups. If you did not create the groups yet, you have to do it now. Click on folder of particular group and then click on plus. Group will be added with default name, you can change it once you will add it. Once you will add the group, make sure that you 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 default groups just click on "Finish".



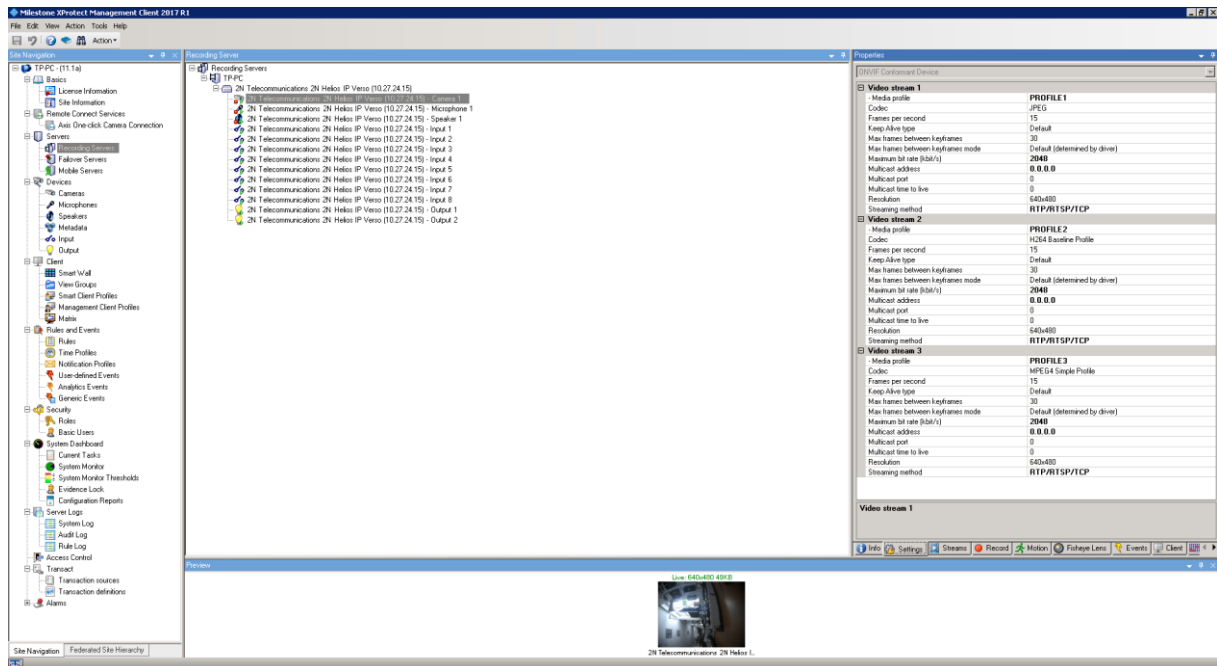
Once the procedure is finished, you will see added devices and their peripheries. You can also add the peripheries you did not add before to groups (not added peripheries are marked with

red cross). Optionally you can rename the device and also the peripherals 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!

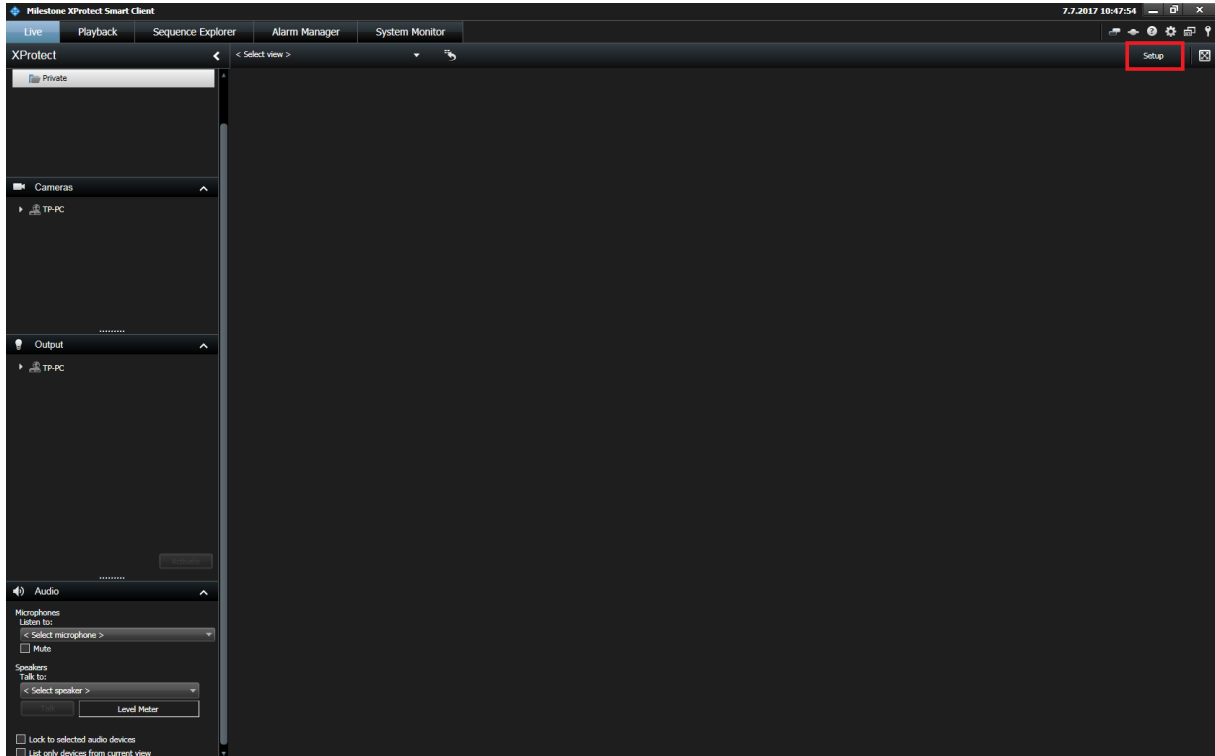


2. Video from 2N IP Intercom

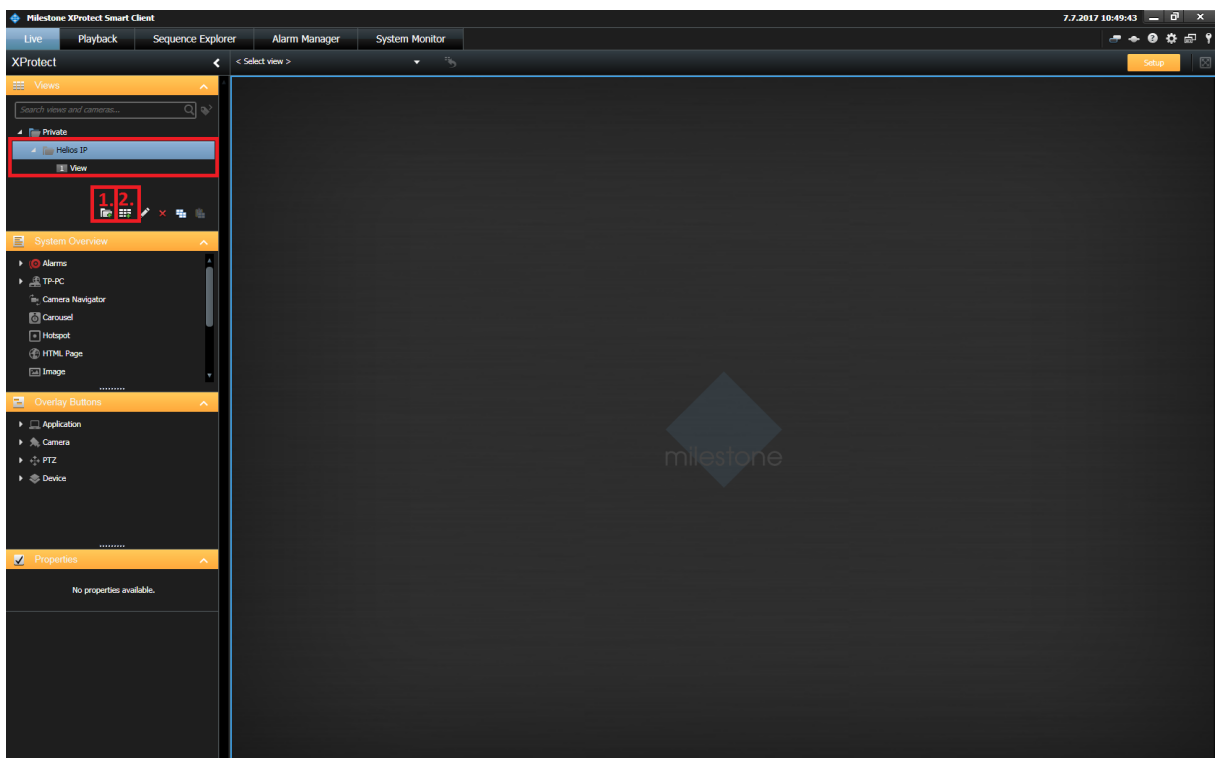
Now you can set video parameters, for example resolutions, codec



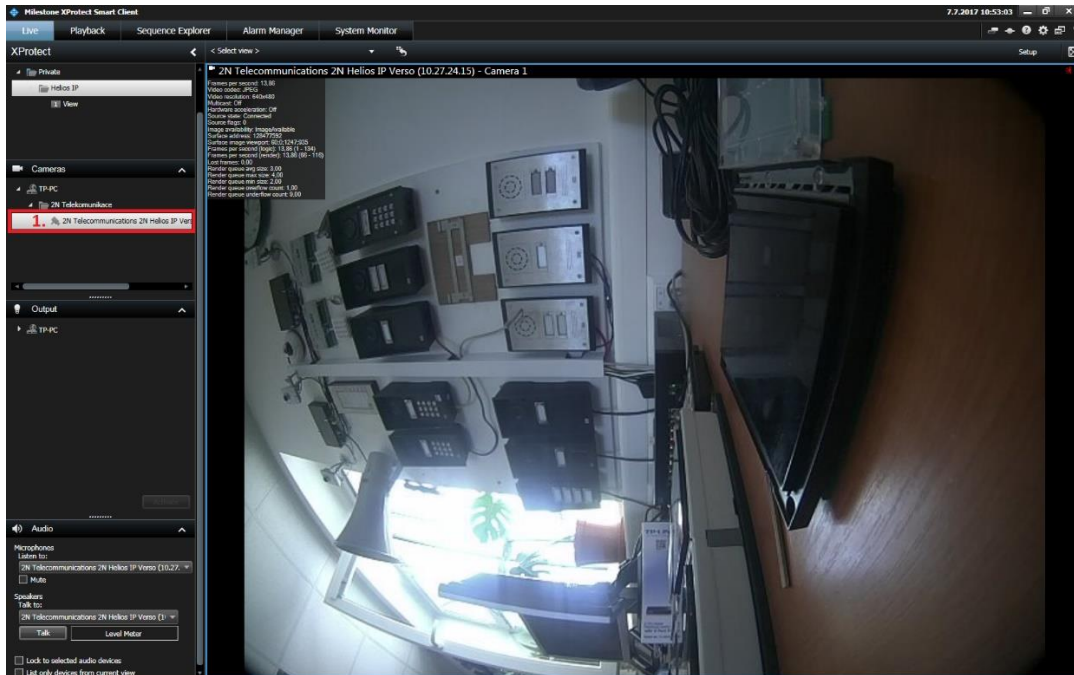
Double-click the shortcut icon XProtect Smart Client on the desktop. The login screen is shown. Type your user name in the User name box, and your password in the Password box. Click Login. After successful login you should add your camera. Go to menu Setup.



Add group, add new view and close to Setup.

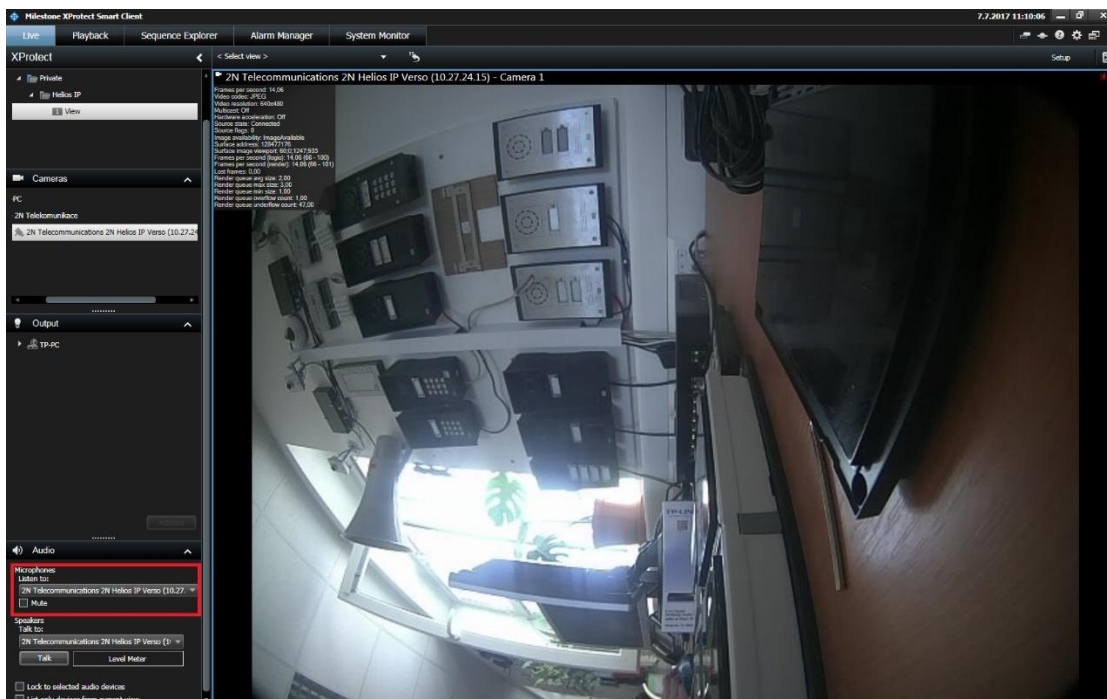


Adding a Camera to a View: Drag selected camera and drop it into your View from the camera tree.



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.

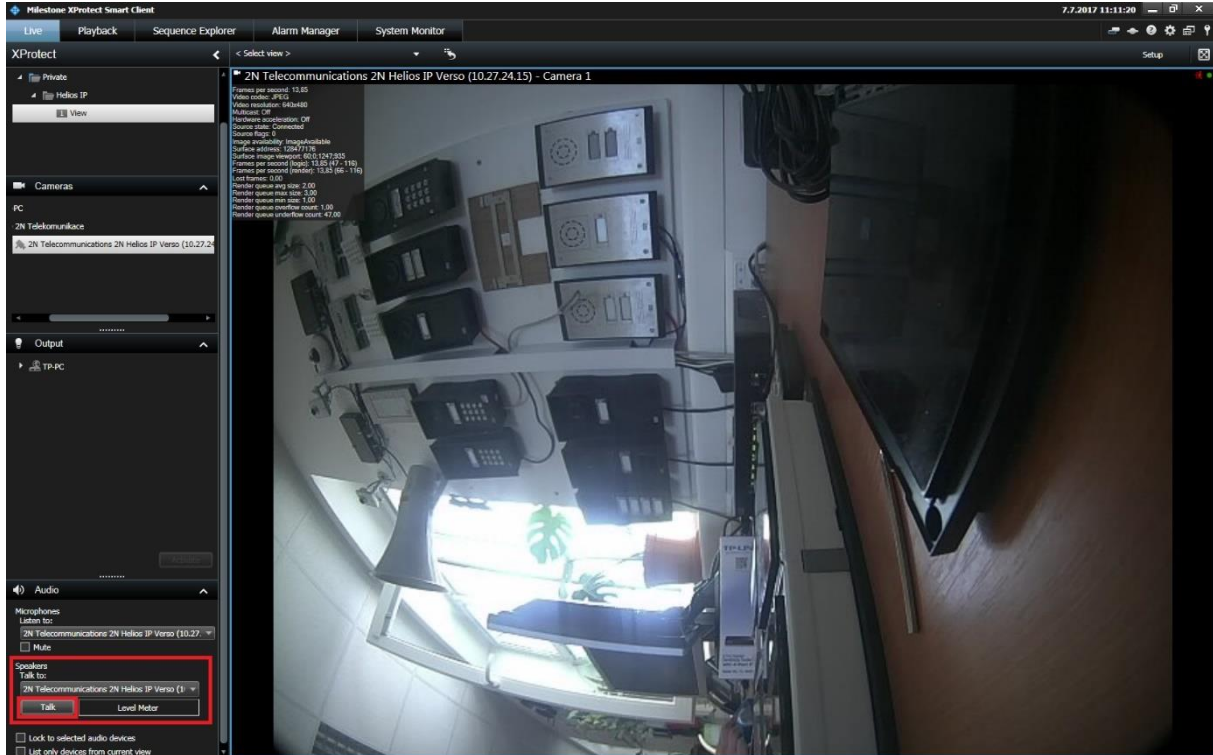




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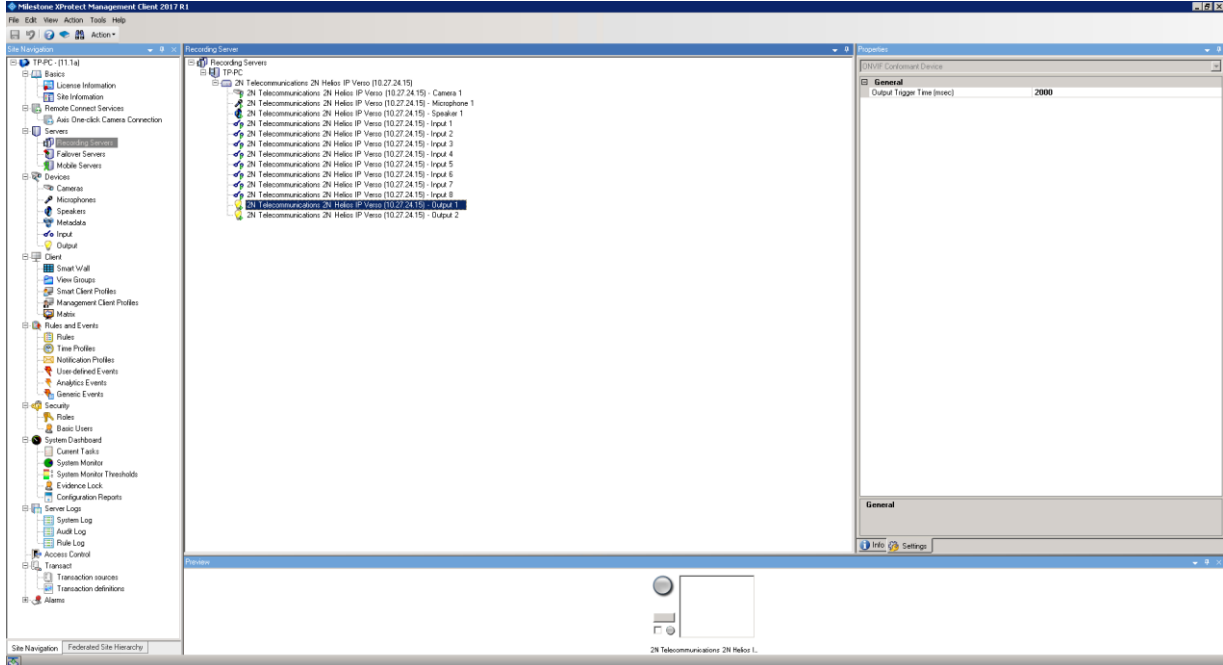
Audio to 2N IP Intercom

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.

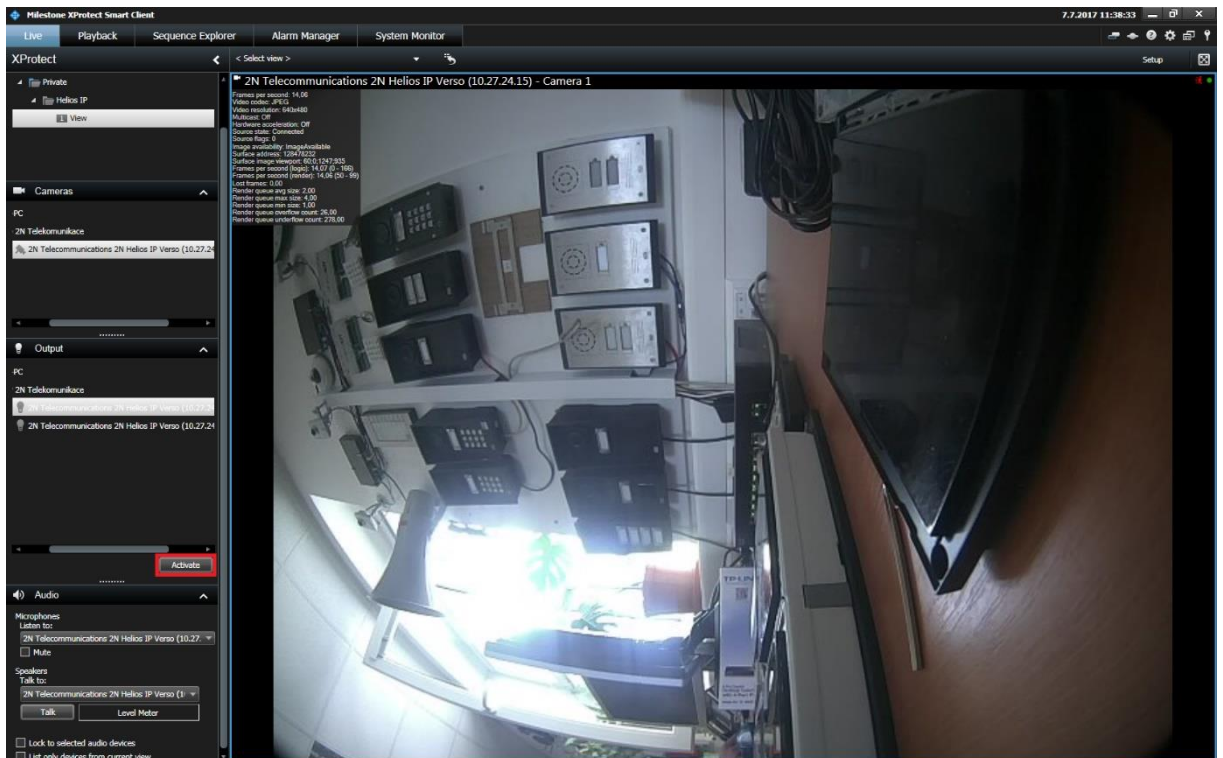


4. Switch control

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

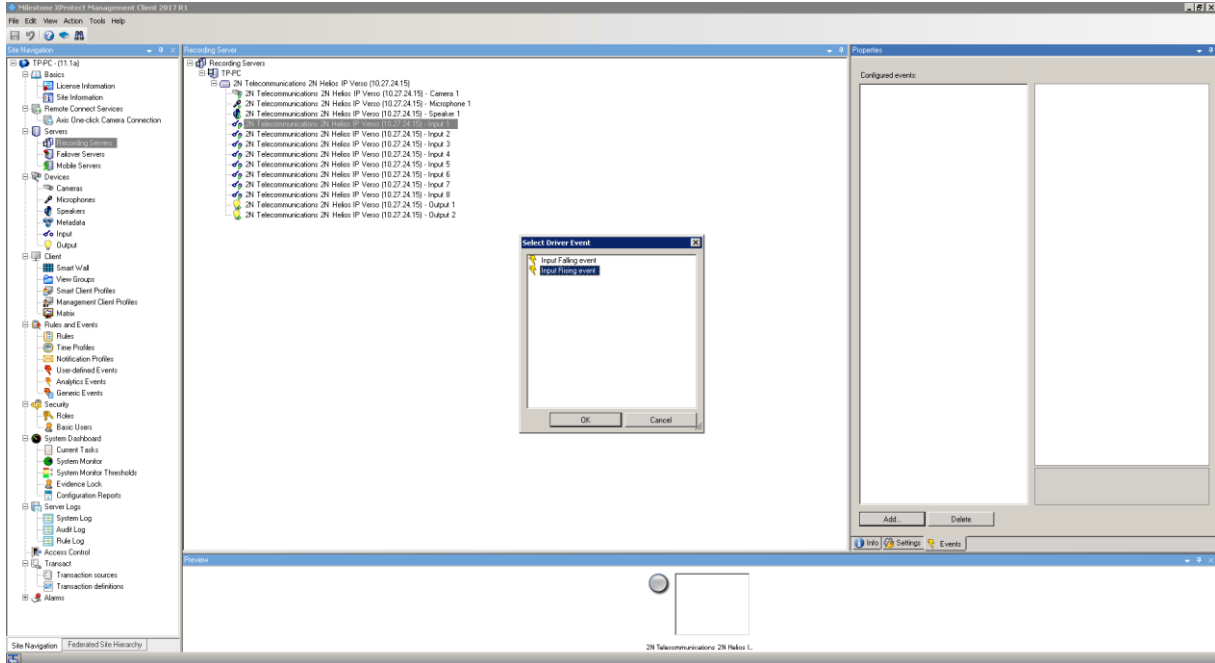


And in the XProtect Smart Client you should set outputs of 2N IP Intercom. After you add your camera, set one of Digital outputs 2N IP Intercom and with the active the output.

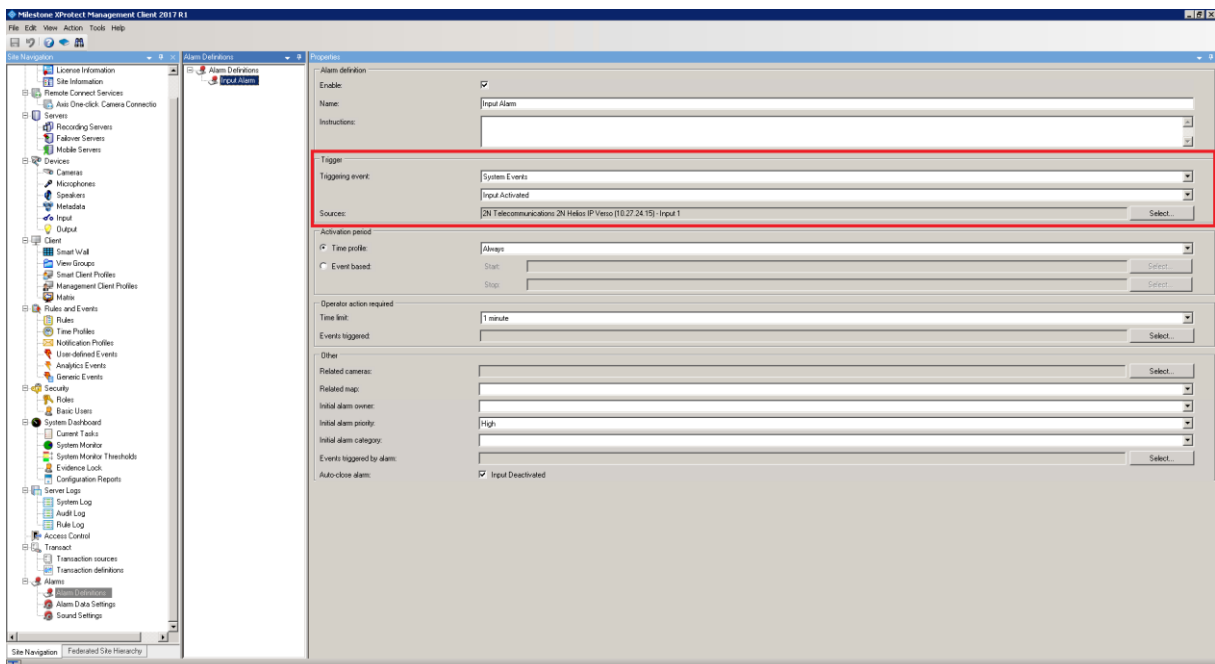


5. Events from 2N IP Intercom

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.

