

Zepcam Manager integration with Milestone XProtect

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- Automatic Retrieval

PRODUCT DESCRIPTION

◆ Abbreviations

DS	Docking Station
ZM	Zepcam Manager
ZC	Zepcam Cloud
MXP	Milestone XProtect
XPSC	XProtect Smart Client
XPMC	XProtect Management Client

◆ Version Management

Tested versions	
ZM	5.1
MXP	2018R1 Corporate
Device Pack	9.6a

◆ Functionality

The integration between Zepcam Manager (ZM) and Milestone XProtect (MXP) makes it easy to watch and retrieve video data of cameras connected to ZM. By using the latest market standards of ONVIF Profile S for live streaming and ONVIF Profile G for edge retrieval we can reliably transfer video data between the two platforms.

Prerequisites

Before we can start configuring the integration between ZM and MXP there are a couple of prerequisites. You will need to have access to ZM with a valid license for Onvif integrations. You will also need access to a MXP server with administrator rights. The two of these need to be able to communicate over an active internet connection, or set up in the same local network. During the setup process you will need a pc or desktop for configuring the integration.

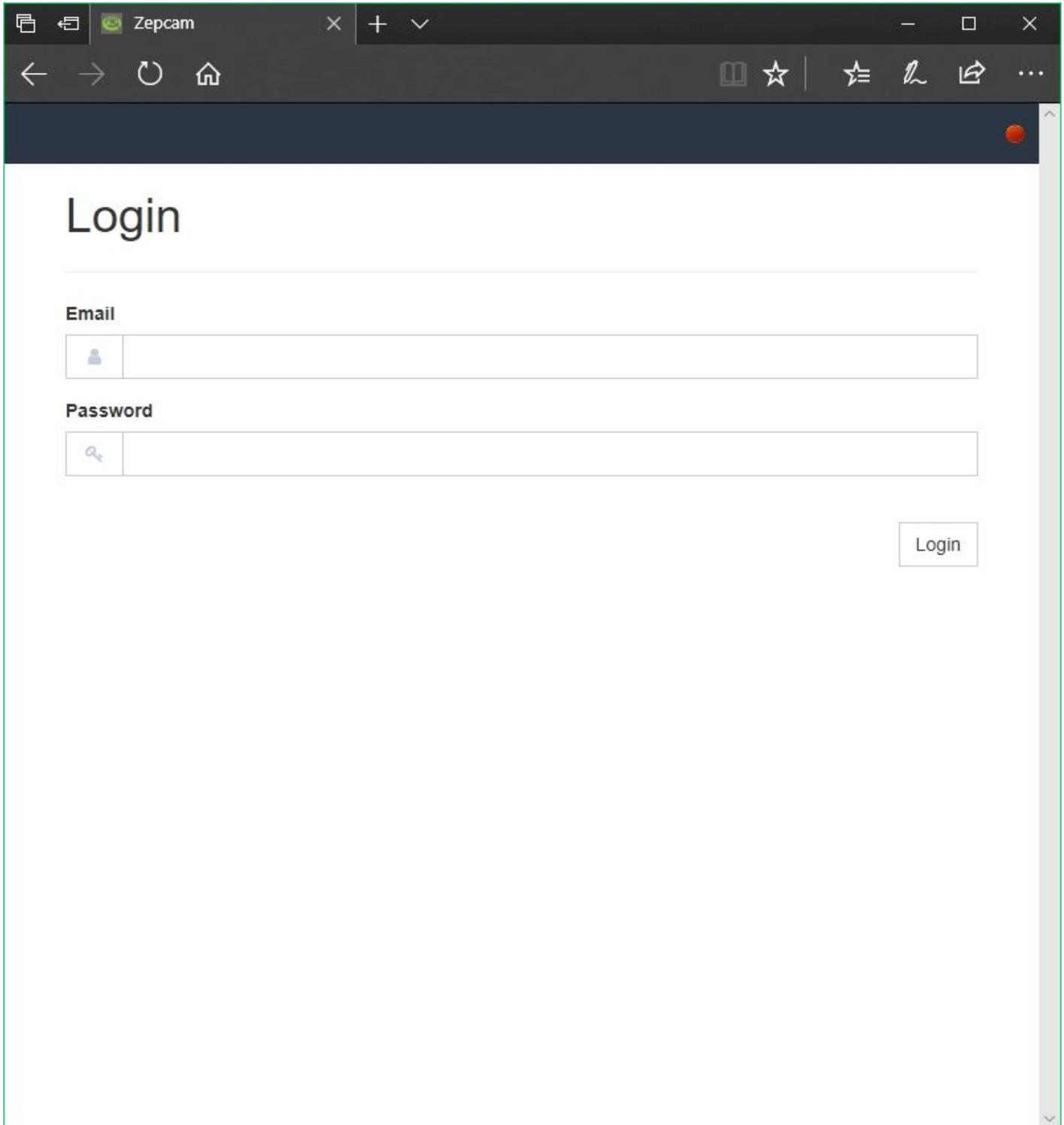
At the end of the manual you should be able to:

- Use Milestone to view Zepcam live streaming cameras.
- Use Milestone to control Zepcam PTZ cameras.
- Use Milestone to automatically retrieve live streamed recordings from ZM.
- Use Milestone to automatically retrieve recordings of rec-only cameras from ZM.

CONFIGURING YOUR INTEGRATION

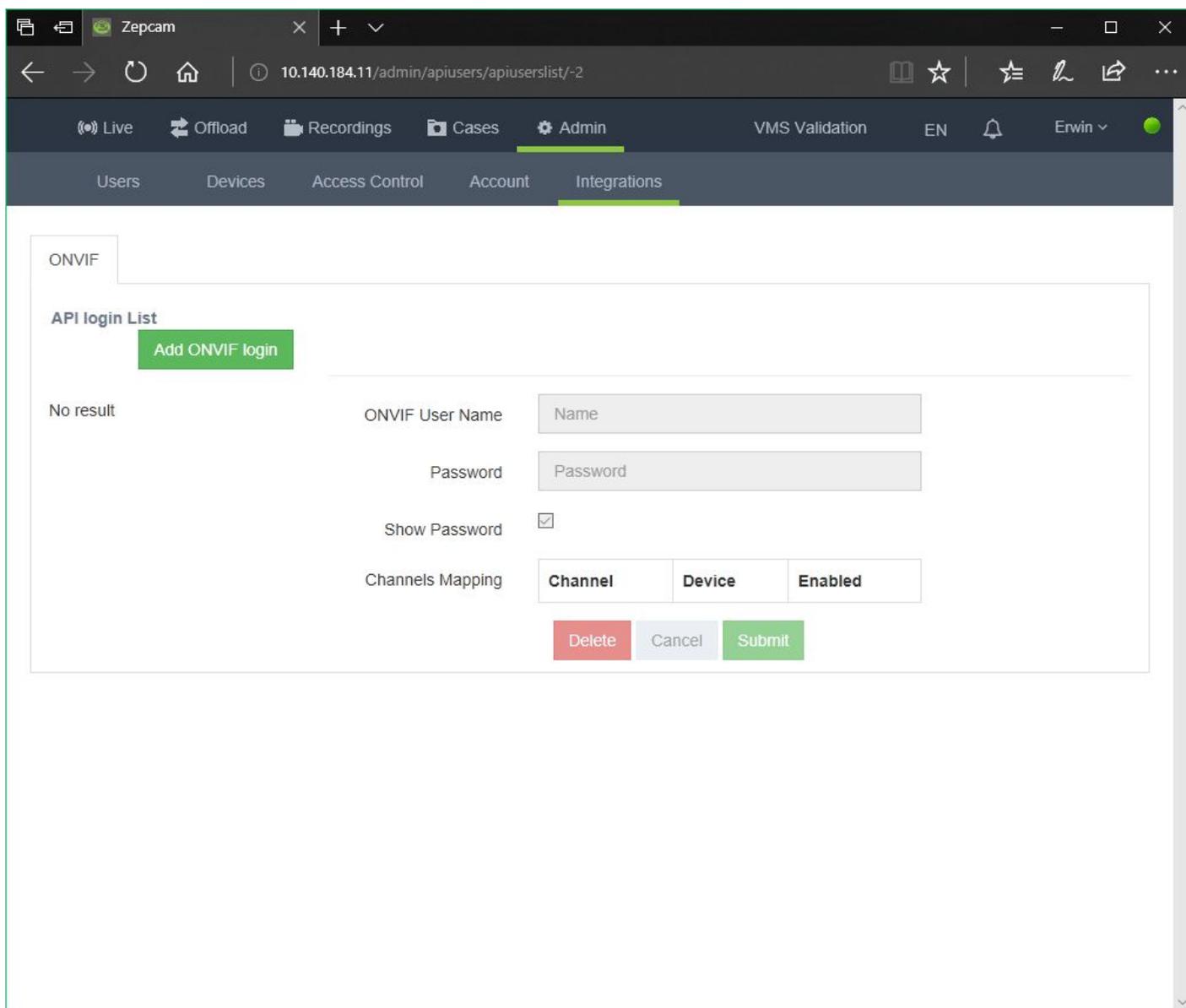
◆ Basic Integration

First open your browser, go to your ZM and log in.



Go to Admin → Integrations and click the “Add ONVIF login” button

[Note] If there is no “Integrations” option, please contact Zepcam to make sure you’ve got a valid license for ONVIF.



Fill in a ONVIF username and password, remember these you'll need these later in the manual. Then scroll down and press "Submit".

The screenshot shows the Zepcam web interface. The browser address bar displays `10.140.184.11/admin/apiusers/apiuserslist/-1`. The navigation menu includes **Live**, **Offload**, **Recordings**, **Cases**, **Admin**, **VMS Validation**, **EN**, and **Erwin**. The **Integrations** sub-menu is active, showing **Users**, **Devices**, **Access Control**, **Account**, and **Integrations**.

The **ONVIF** section is titled **API login List** and includes an **Add** button and an **Add ONVIF login** button. Below the buttons, it displays **No result** and a form with the following fields:

- ONVIF User Name**:
- Show Password**:
- Channels Mapping**: A table with 8 rows and 3 columns: **Channel**, **Device**, and **Enabled**.

Channel	Device	Enabled
1	Not in use	<input type="checkbox"/>
2	Not in use	<input type="checkbox"/>
3	Not in use	<input type="checkbox"/>
4	Not in use	<input type="checkbox"/>
5	Not in use	<input type="checkbox"/>
6	Not in use	<input type="checkbox"/>
7	Not in use	<input type="checkbox"/>
8	Not in use	<input type="checkbox"/>

Now add devices to the channels that you would like. In this manual we have added a Zepcam T2 and a Zepcam Mobile Video Box on channel 1 and 2 as an example. Scroll down and press "Submit".

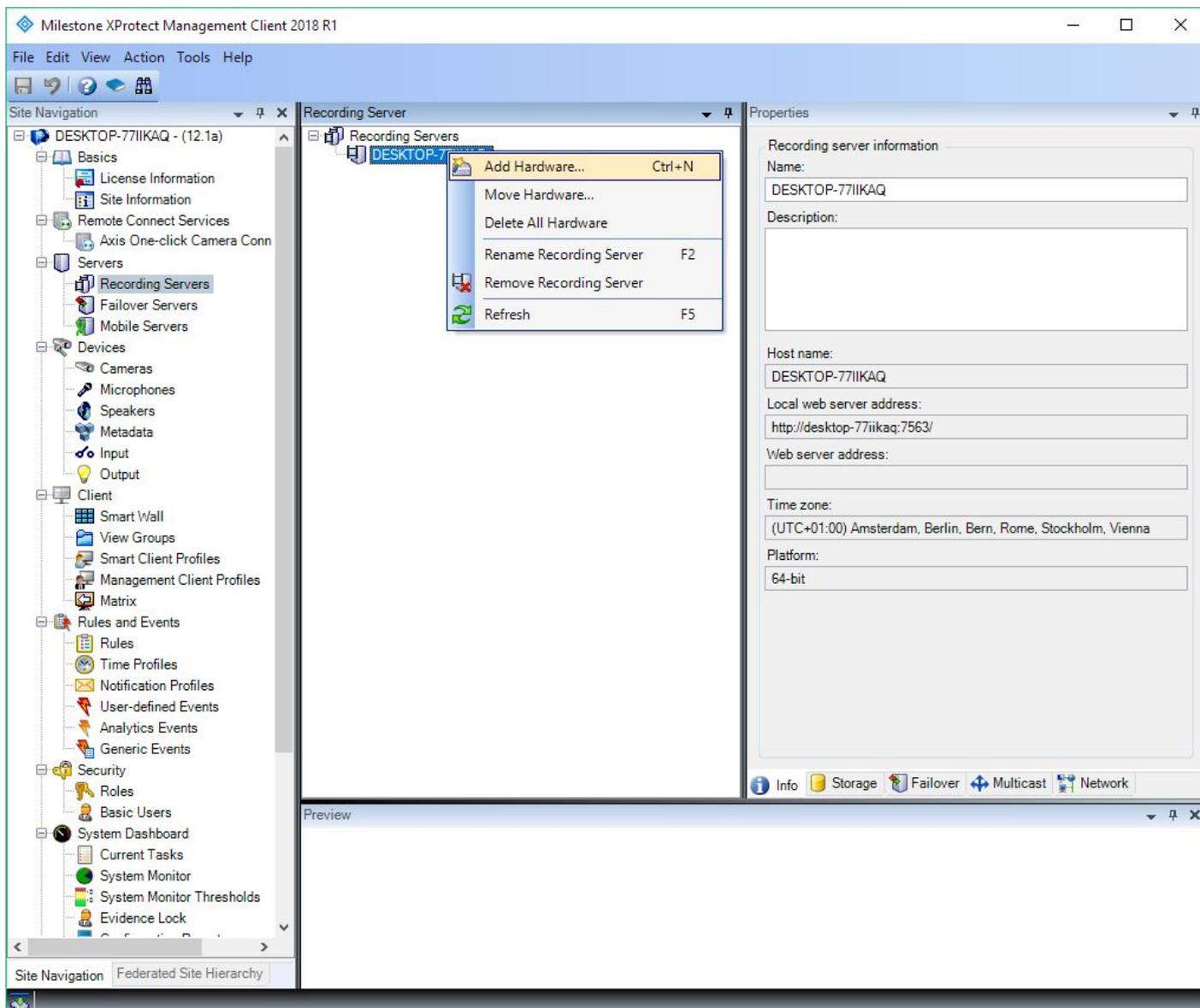
The screenshot shows the Zepcam web interface. The browser address bar displays `10.140.184.11/admin/apiusers/apiuserslist/-1`. The navigation menu includes 'Live', 'Offload', 'Recordings', 'Cases', 'Admin', 'VMS Validation', 'EN', and 'Erwin'. The 'Integrations' sub-menu is active, showing 'Users', 'Devices', 'Access Control', 'Account', and 'Integrations'. The 'ONVIF' section is selected, displaying the 'API login List' with an 'Add' button and an 'Add ONVIF login' button. The 'ONVIF User Name' field contains 'ZMONVIF' and the 'Show Password' checkbox is unchecked. The 'Channels Mapping' table is as follows:

Channel	Device	Enabled
1	T2-1748-20994-10	<input checked="" type="checkbox"/>
2	MVB 97	<input checked="" type="checkbox"/>
3	Not in use	<input type="checkbox"/>
4	Not in use	<input type="checkbox"/>
5	Not in use	<input type="checkbox"/>
6	Not in use	<input type="checkbox"/>
7	Not in use	<input type="checkbox"/>
8	Not in use	<input type="checkbox"/>

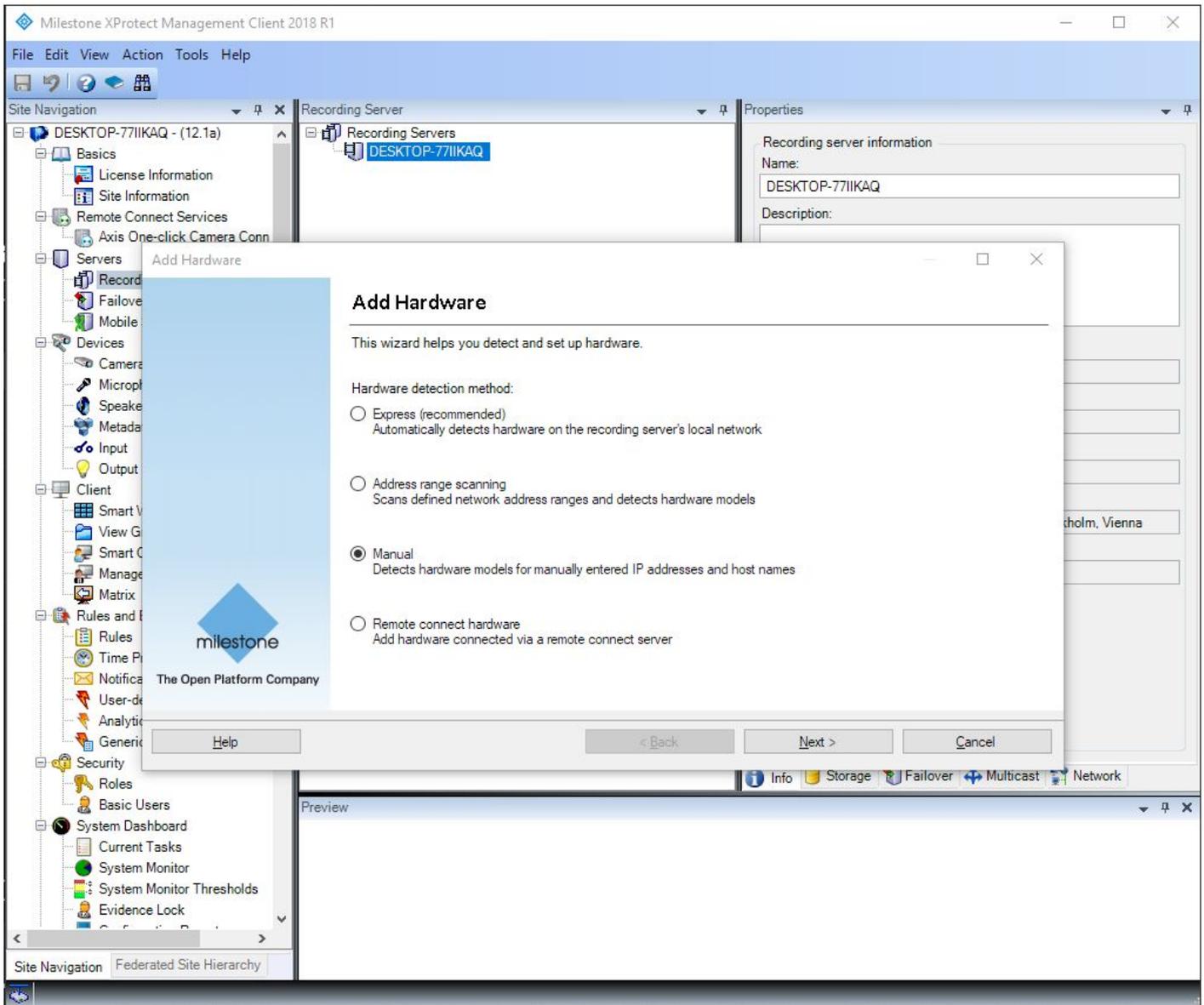
Now open XPMC and log in.

Navigate to → Servers → Recording Servers

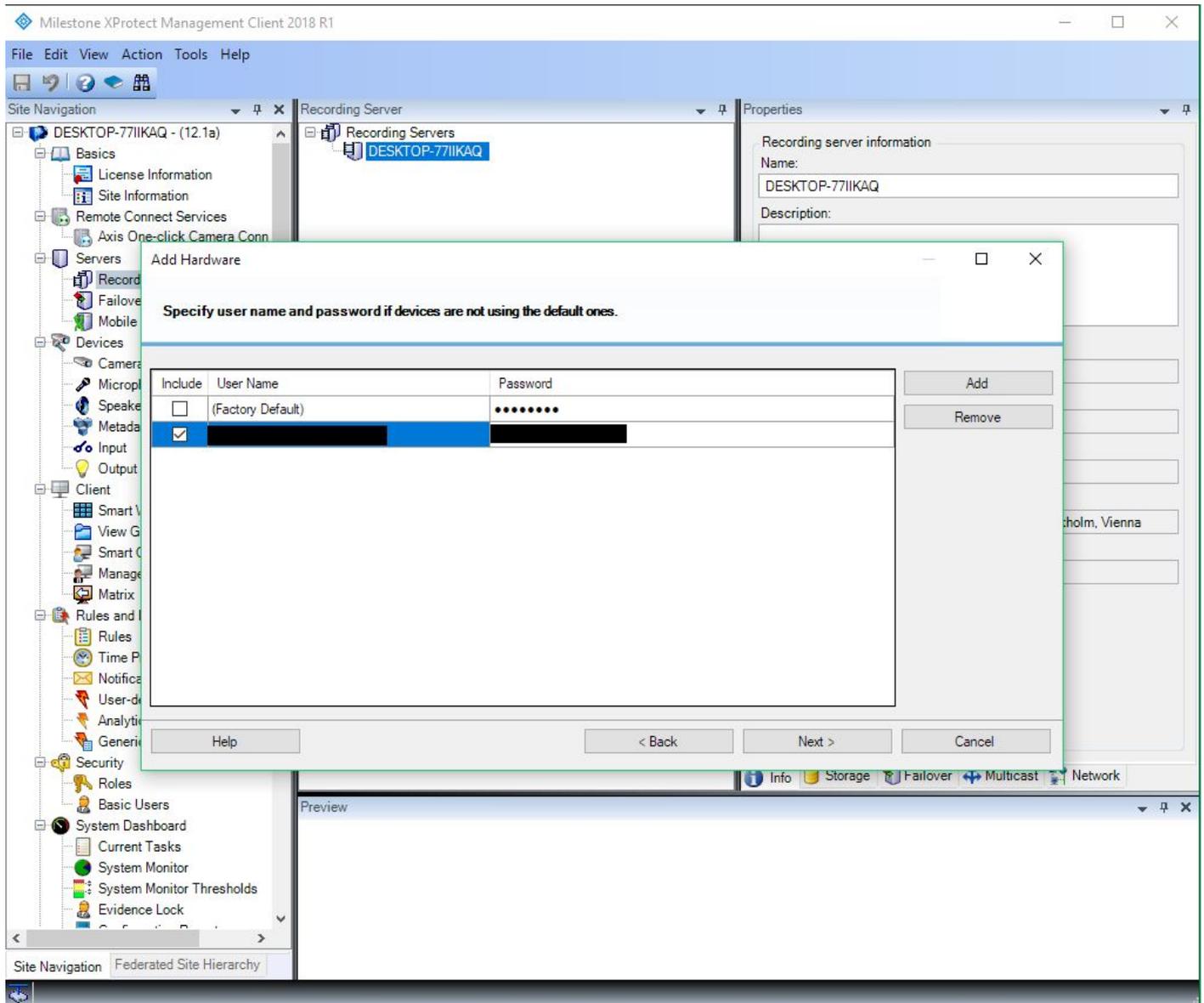
Right click on your current system, and click “Add Hardware”



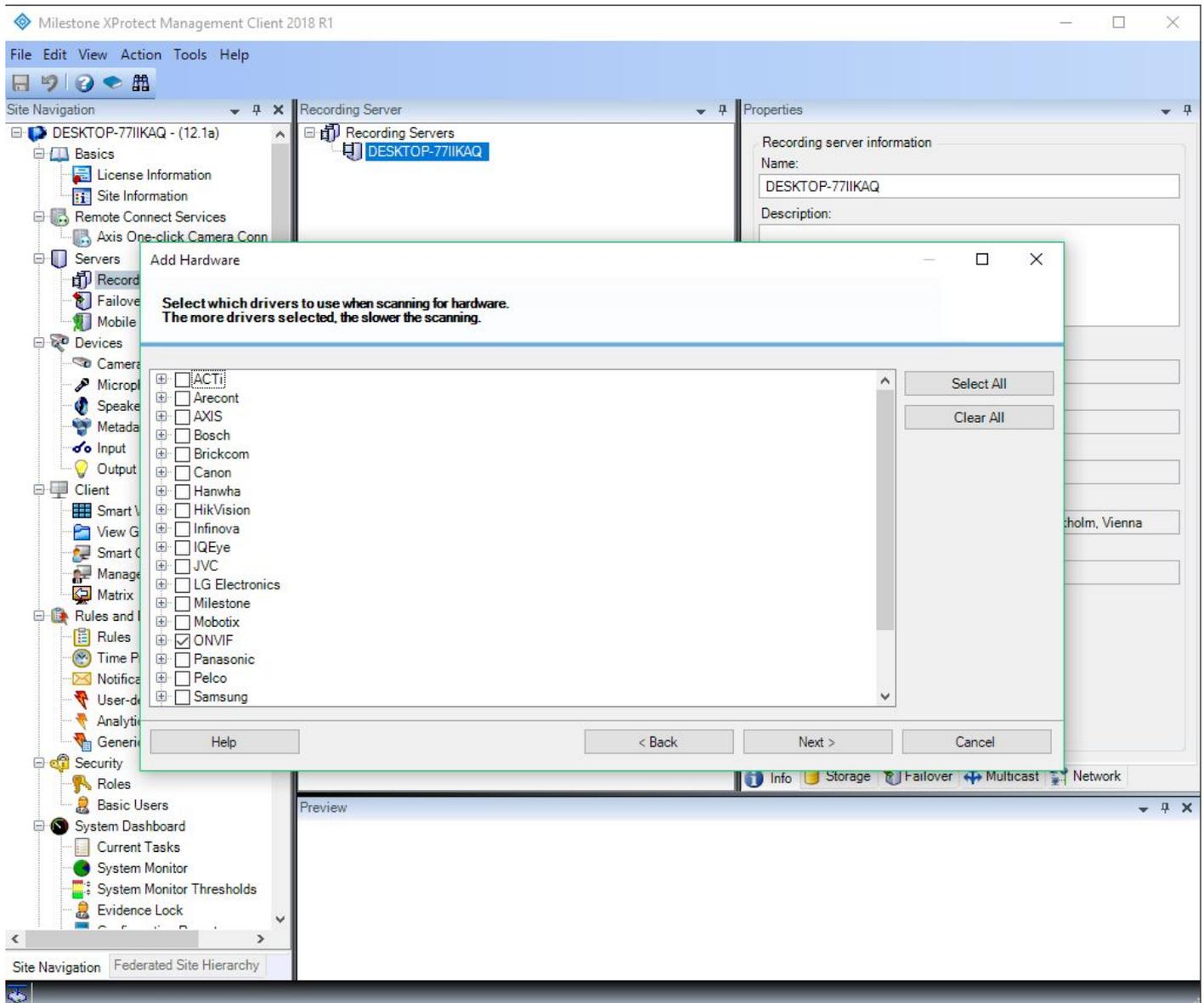
In the "Add Hardware" pop-up select manual hardware detection and click next.



In the Next window add a username and password with the “Add” button. Fill in the username and password you have chosen a couple of steps back in ZM. Make sure you mark the include check mark and then click next.

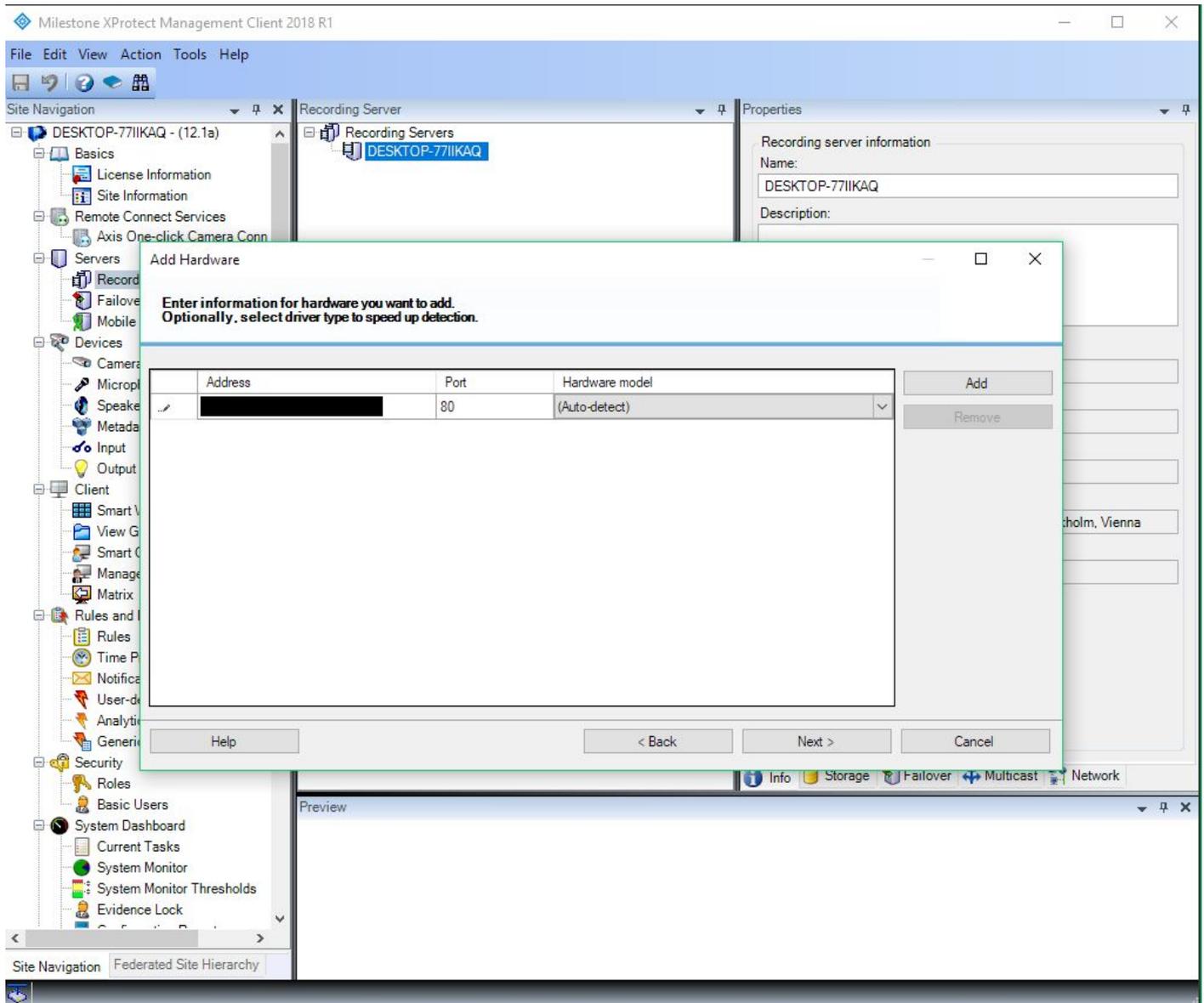


Select ONVIF (ONVIF Conformant Device (2 -16 channels)) and click next:



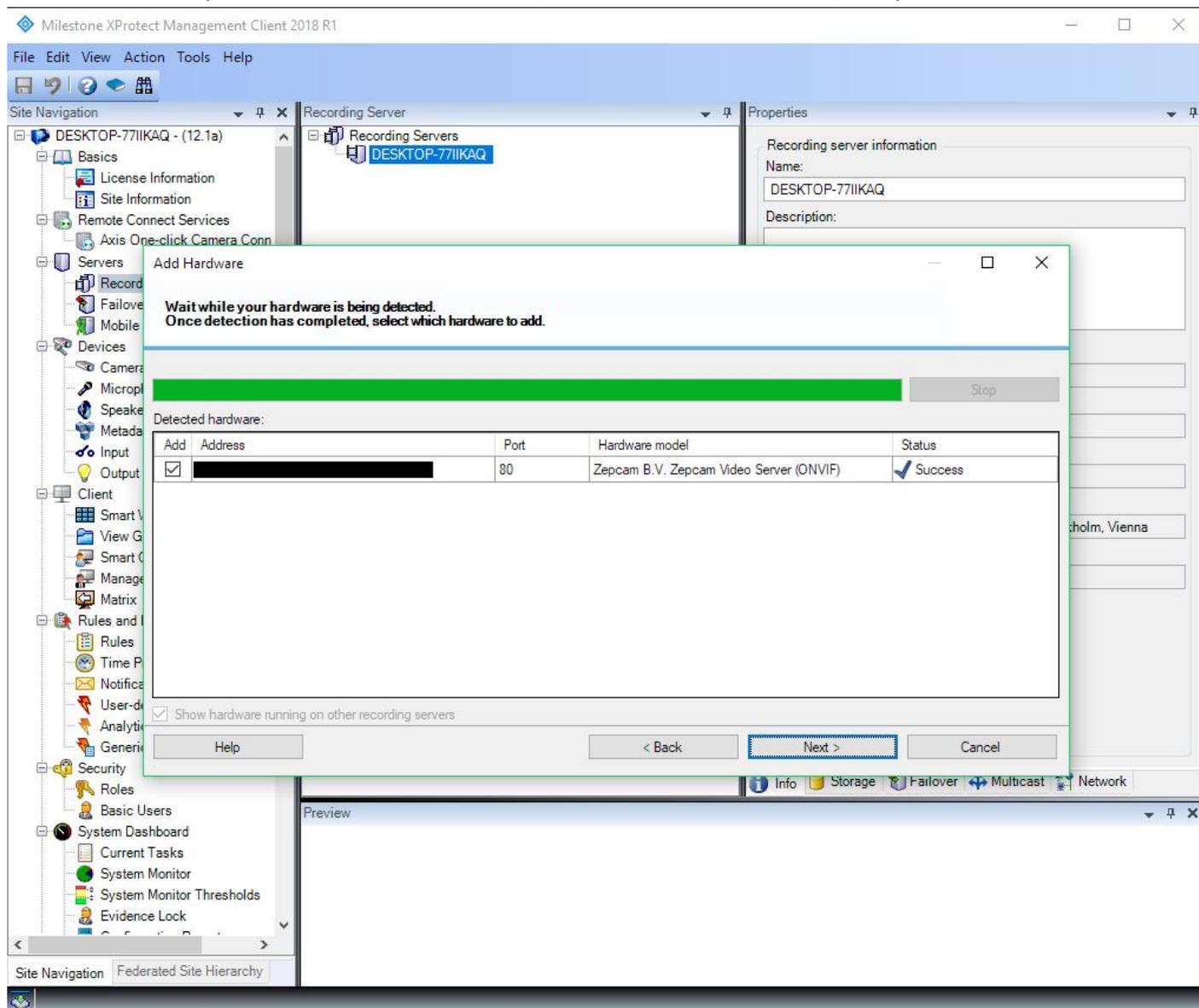
Fill in the IP address of your ZM and port 80 and click next.

[Note] If you're configuring multiple ONVIF accounts you should use port 7101 to 7120, a different port for each account.



Milestone should now start detecting ZM. Once it's completed the status will switch to success with a check mark.

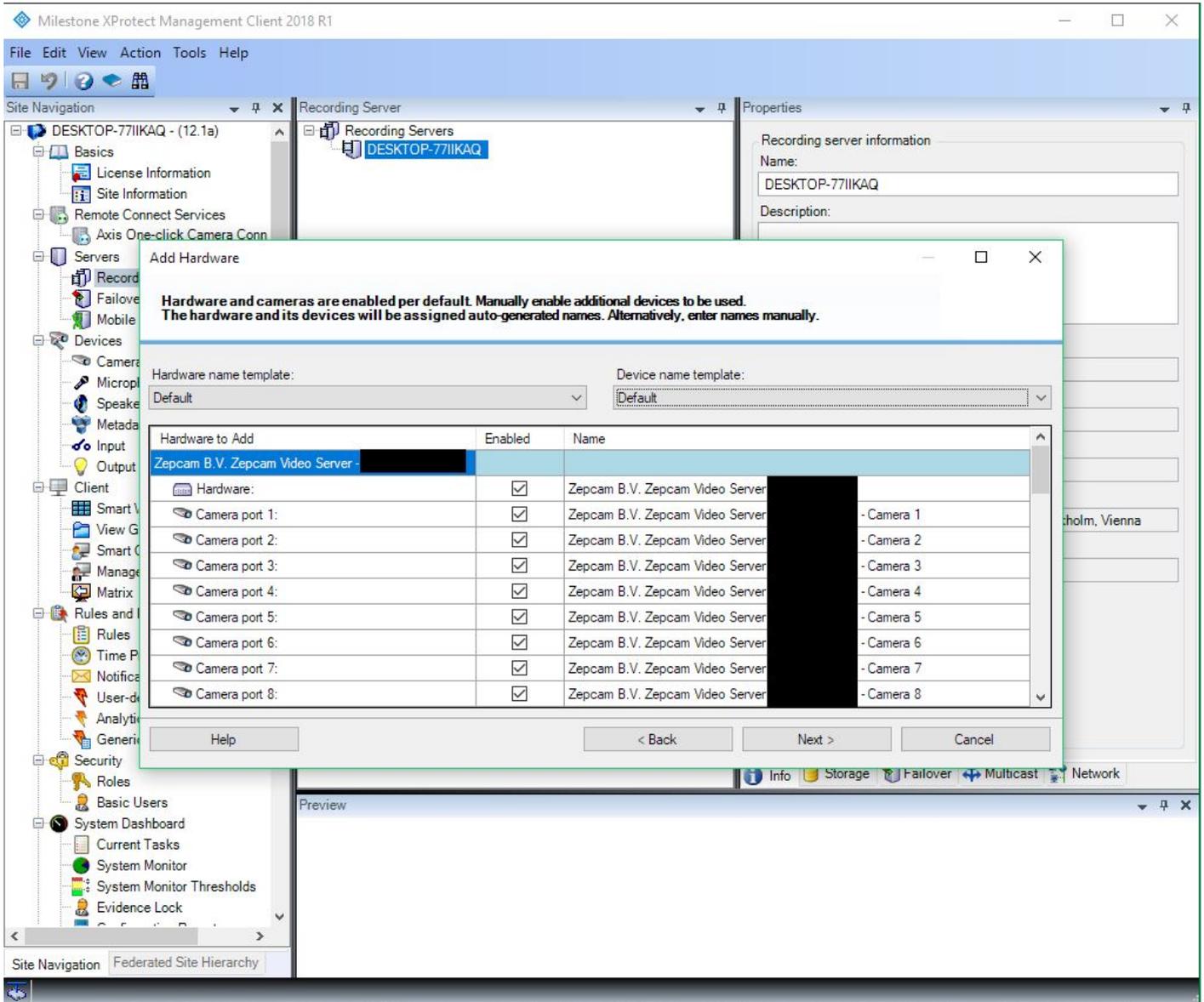
[Note] If this step fails check your network, your ZM IP address and your port.



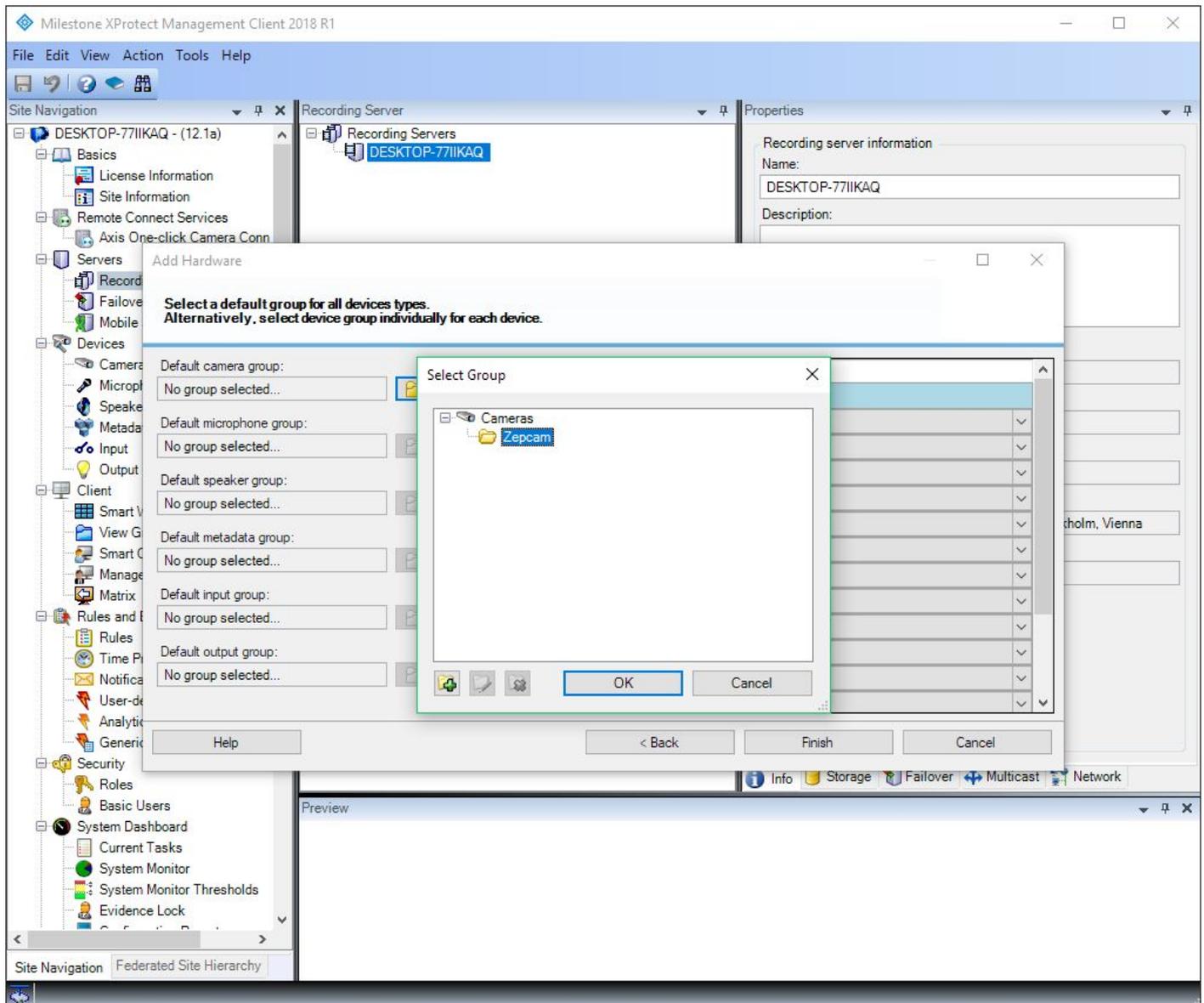
Click next, the Milestone system is now connecting to the ZM, wait until this is done and then click next again.

[Note] If this step fails, make sure you haven't used the combination of IP address and port before on ZM.

Now only check the checkboxes of the channels you've configured in ZM on page 8 of this manual. If you're planning to use audio and output ports make sure you've checked these checkboxes too and press next.

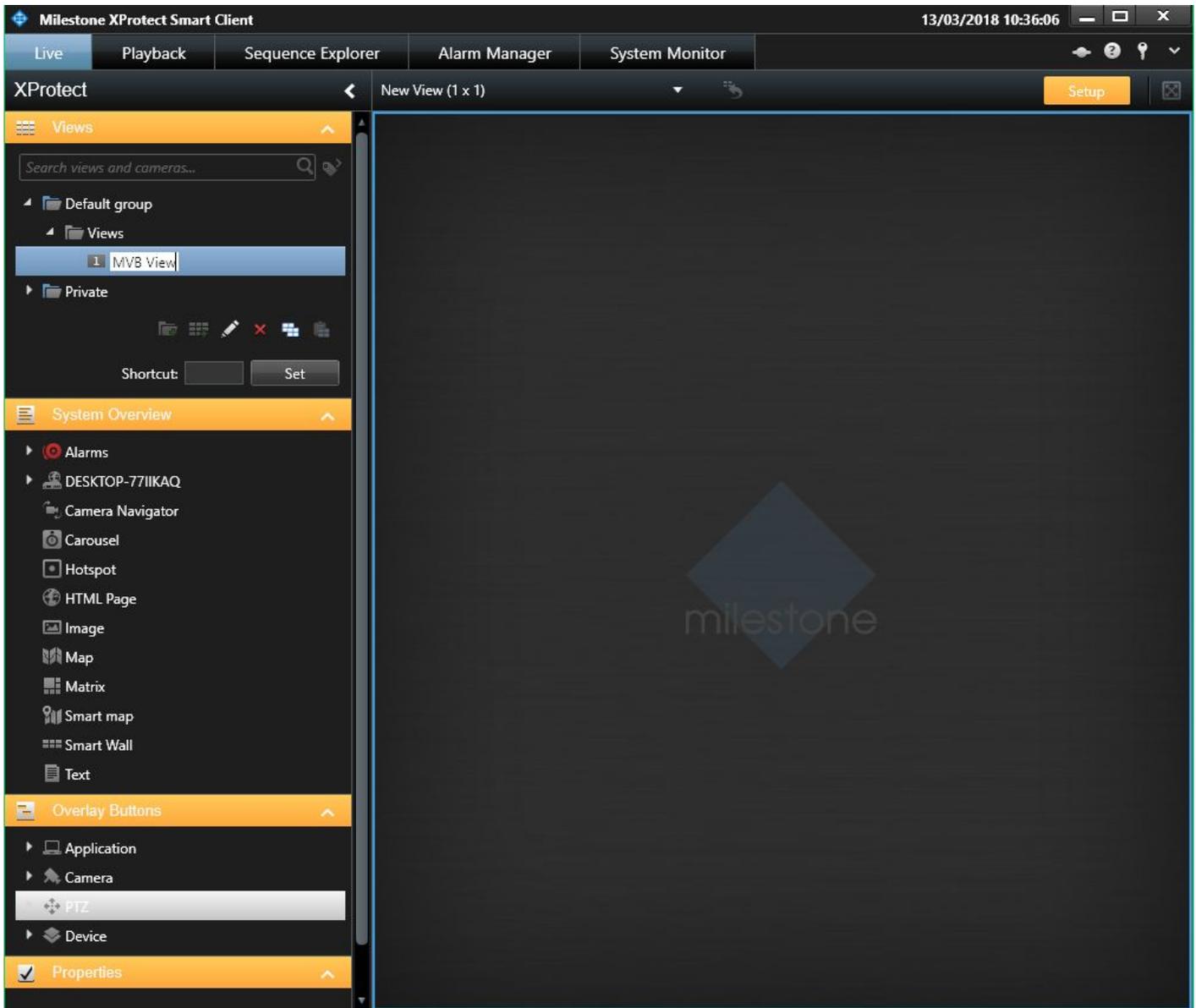


Select a default camera group or make a new camera group. Do the same for the output channels and audio if you've configured these. Click ok and press finish.

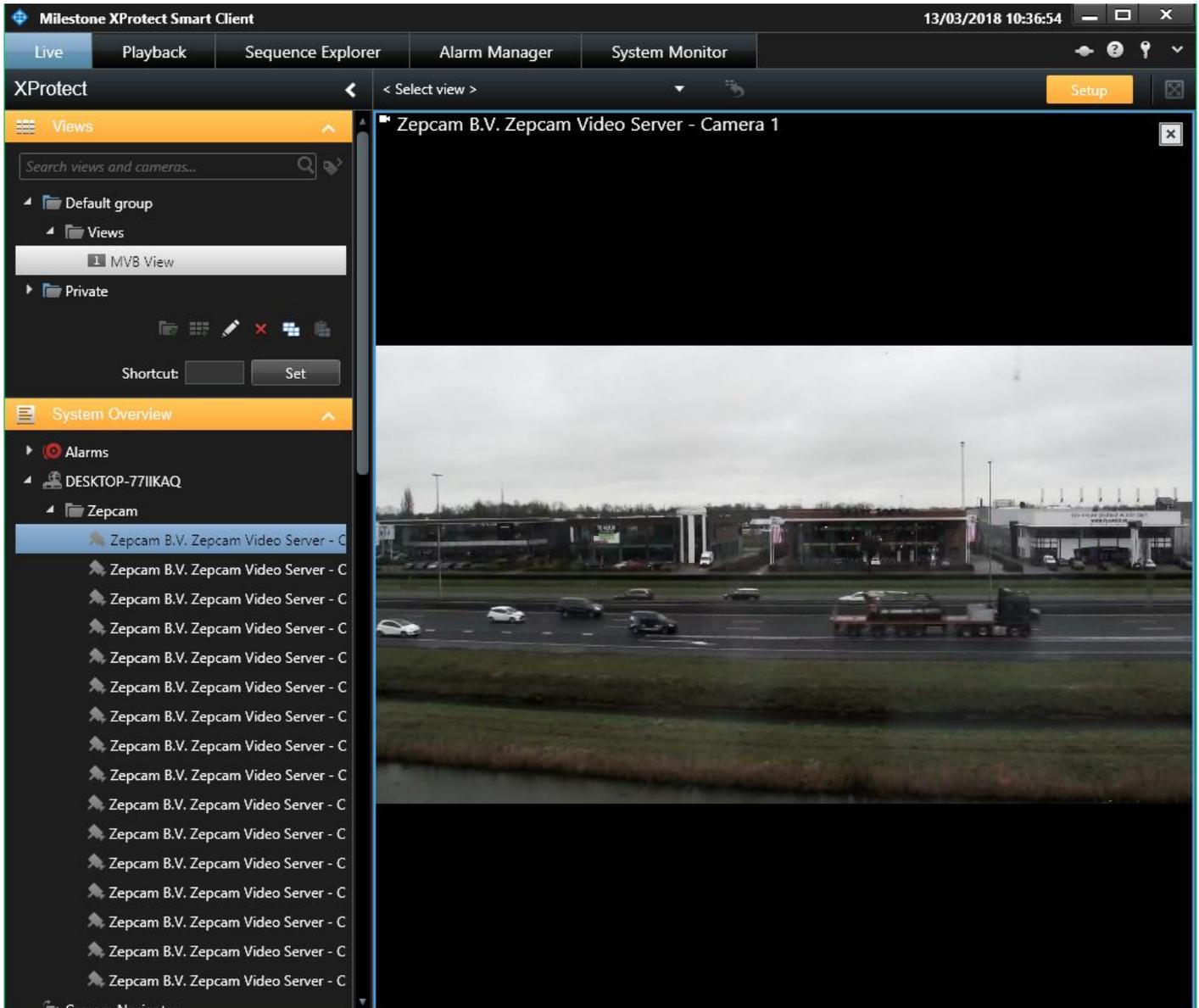


You've now configured ZM and MXP using Onvif. Now open up and log in to XPSC to test if the system is working. Click "Setup" to configure a new view group. Add a new View group by clicking the small folder icon with a + sign.

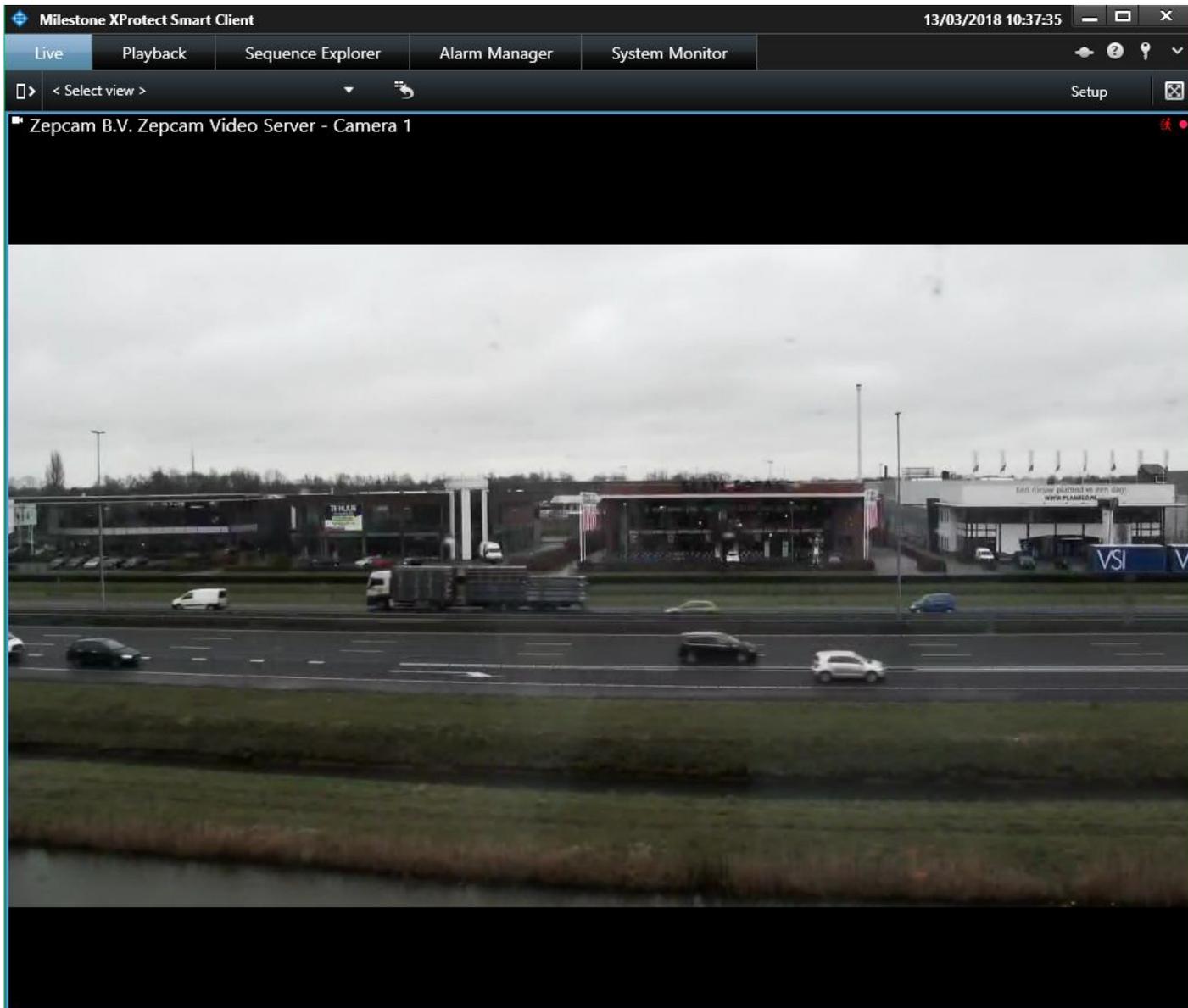
[Note] If you already had XPSC open, please close it and open it up again. Changes made in XPMC will only show up in XPSC when XPSC has restarted.



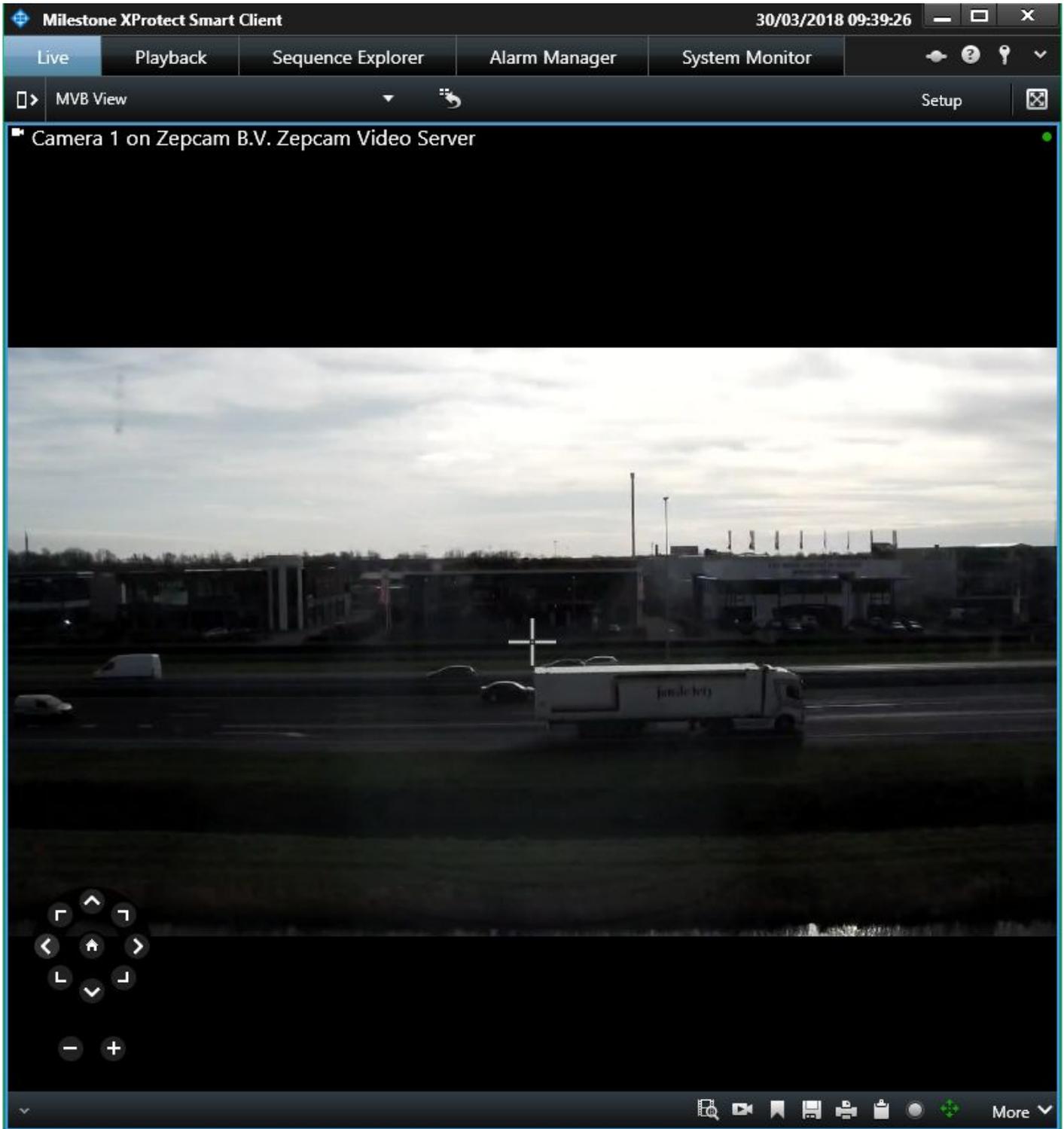
In your new View add some cameras by selecting a camera in System Overview → [Milestone name] → Zepcam Cameras → Camera. Now drag the camera into the view and drop it.



Once you've added all the cameras click the setup button again to close the setup. If you have live streaming cameras configured such as the MVB or the T1, and they are live streaming on the server, than they will be visible in Milestone now in the "Live" tab. It is also possible to add overlay buttons in Milestone so you can start and stop the stream from the XPSC. This will be explained in the chapter: "Start and stop stream in XProtect Smart Client".



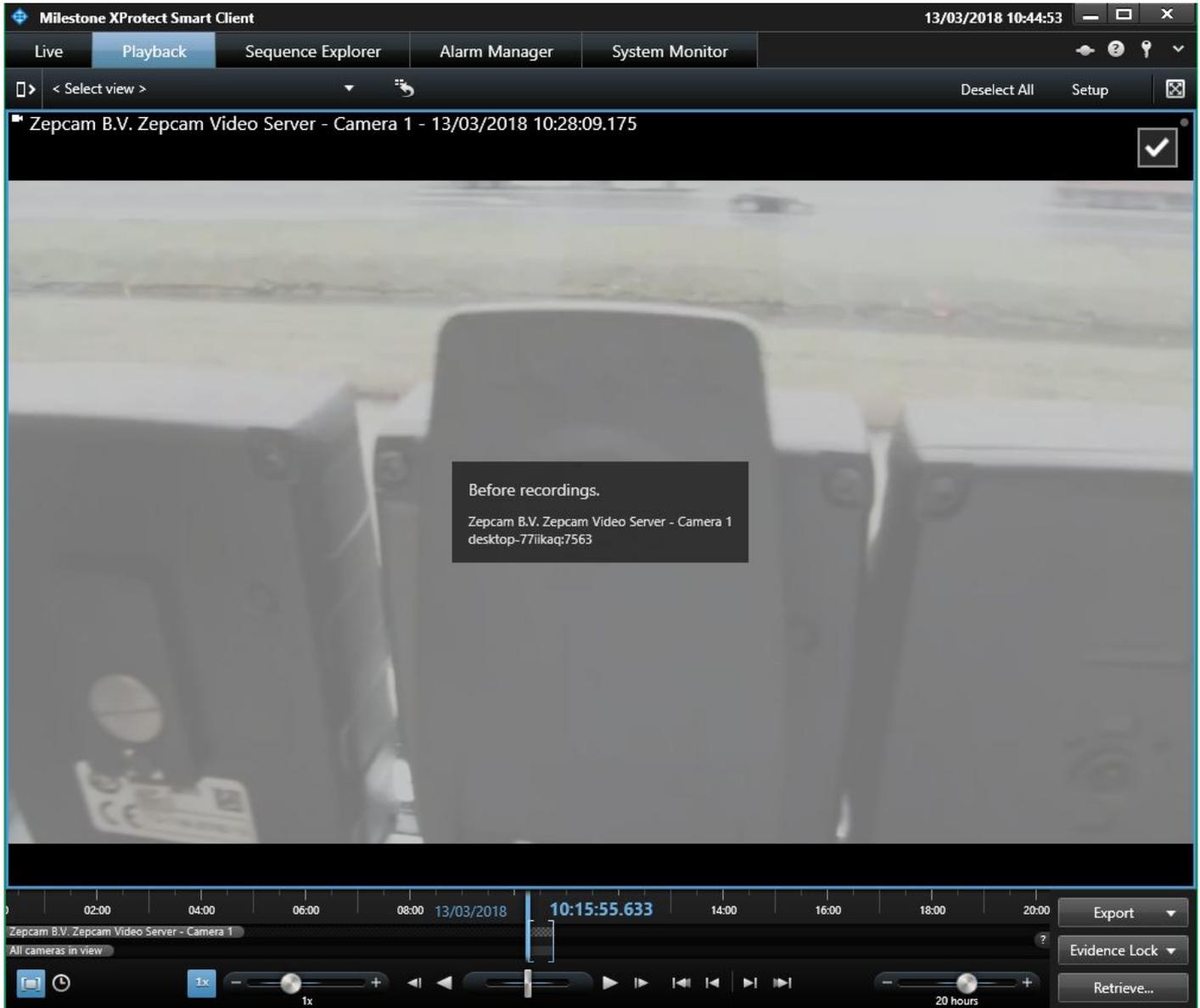
If you have configured the PTZ functionality in XPMC you can control the camera in the live tab. The PTZ buttons are hidden until you hover over them in the bottom left corner.



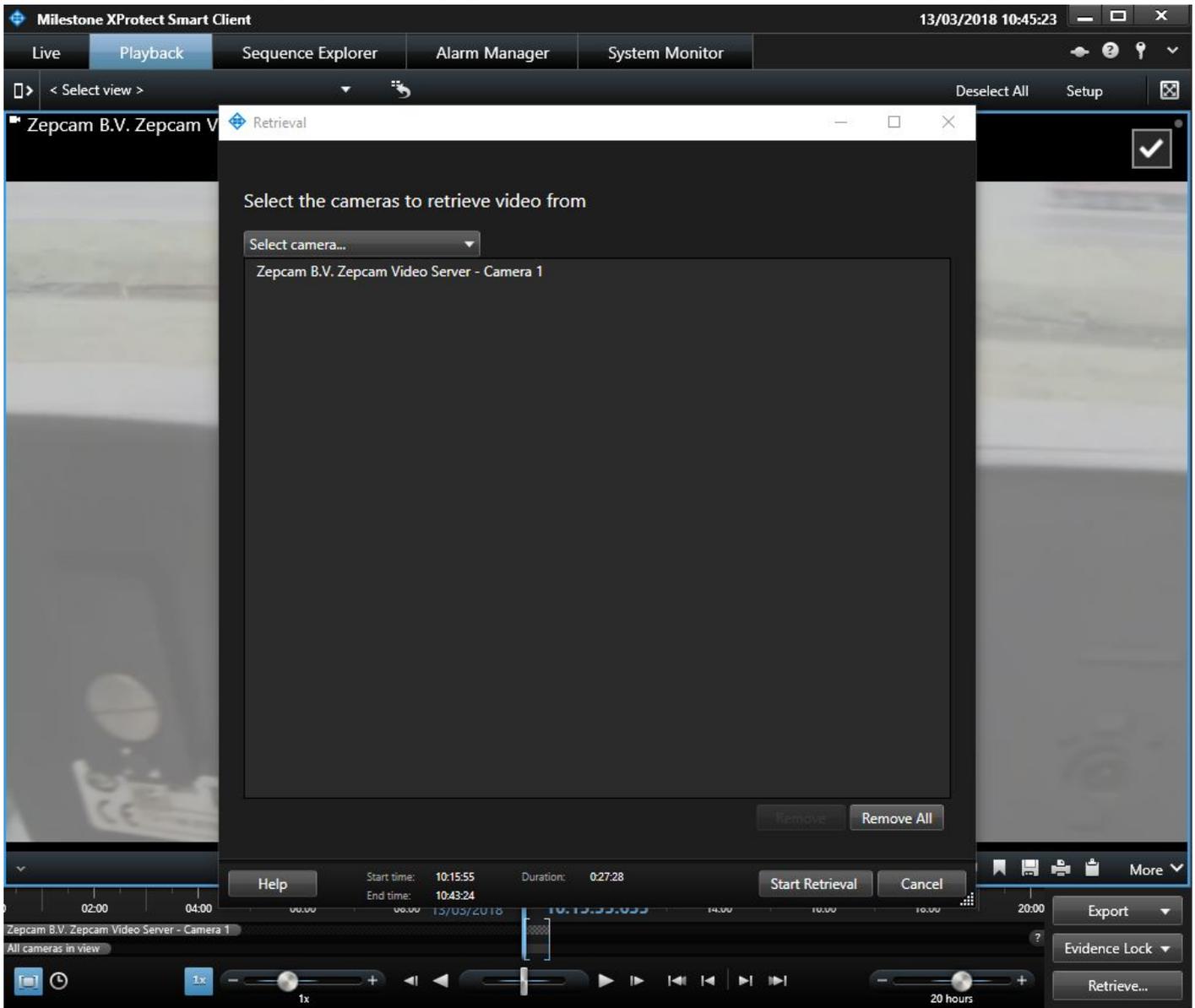
◆ Recording retrieval

You can retrieve recordings in the “Playback” tab. Select the small retrieve icon in the bottom left corner, then select the time and camera you want to retrieve recordings from. After you’ve done click “Retrieve”.

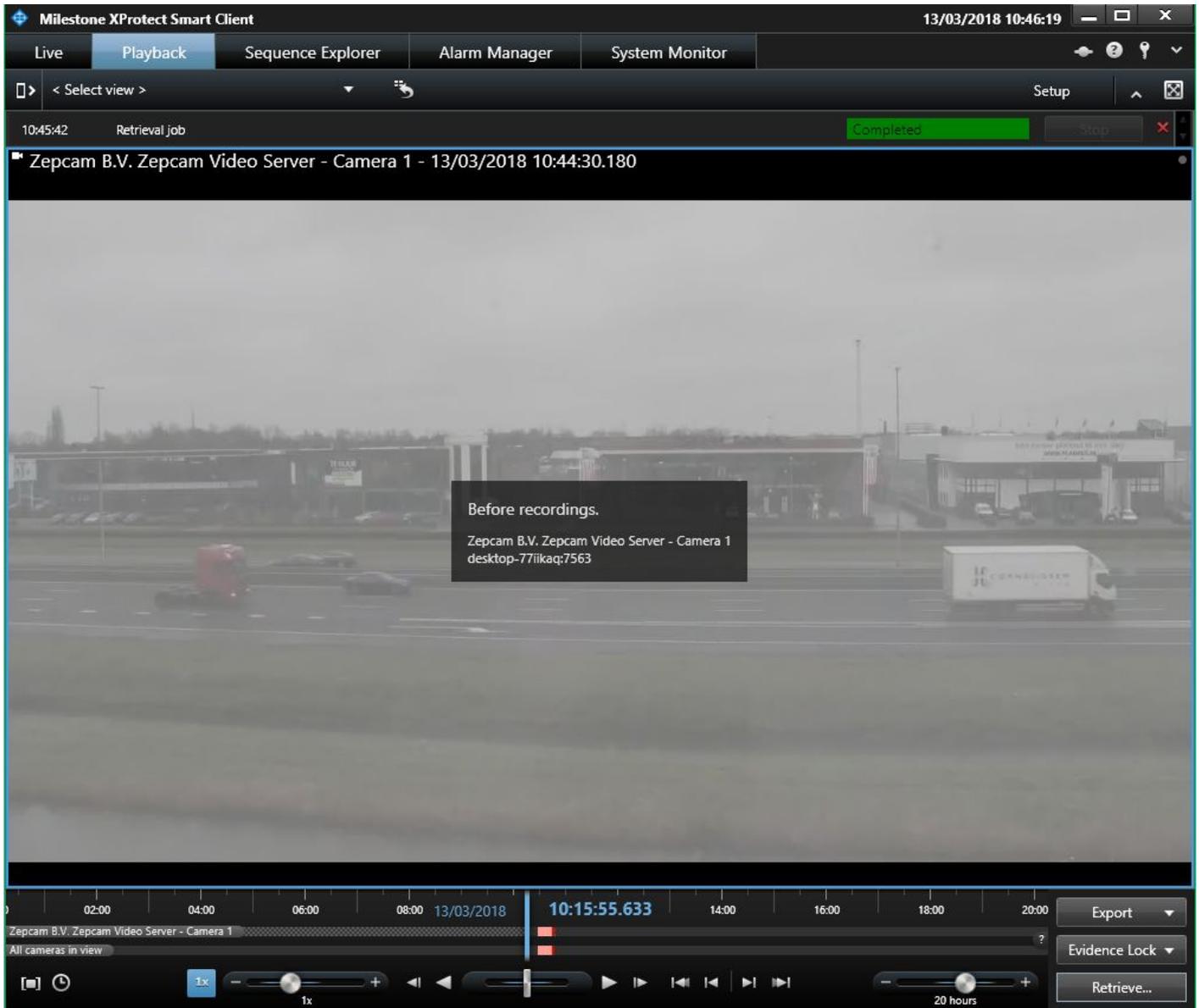
[Note] If you select a time in the future, XPSC will wait for the future time to have elapsed when retrieving recordings.



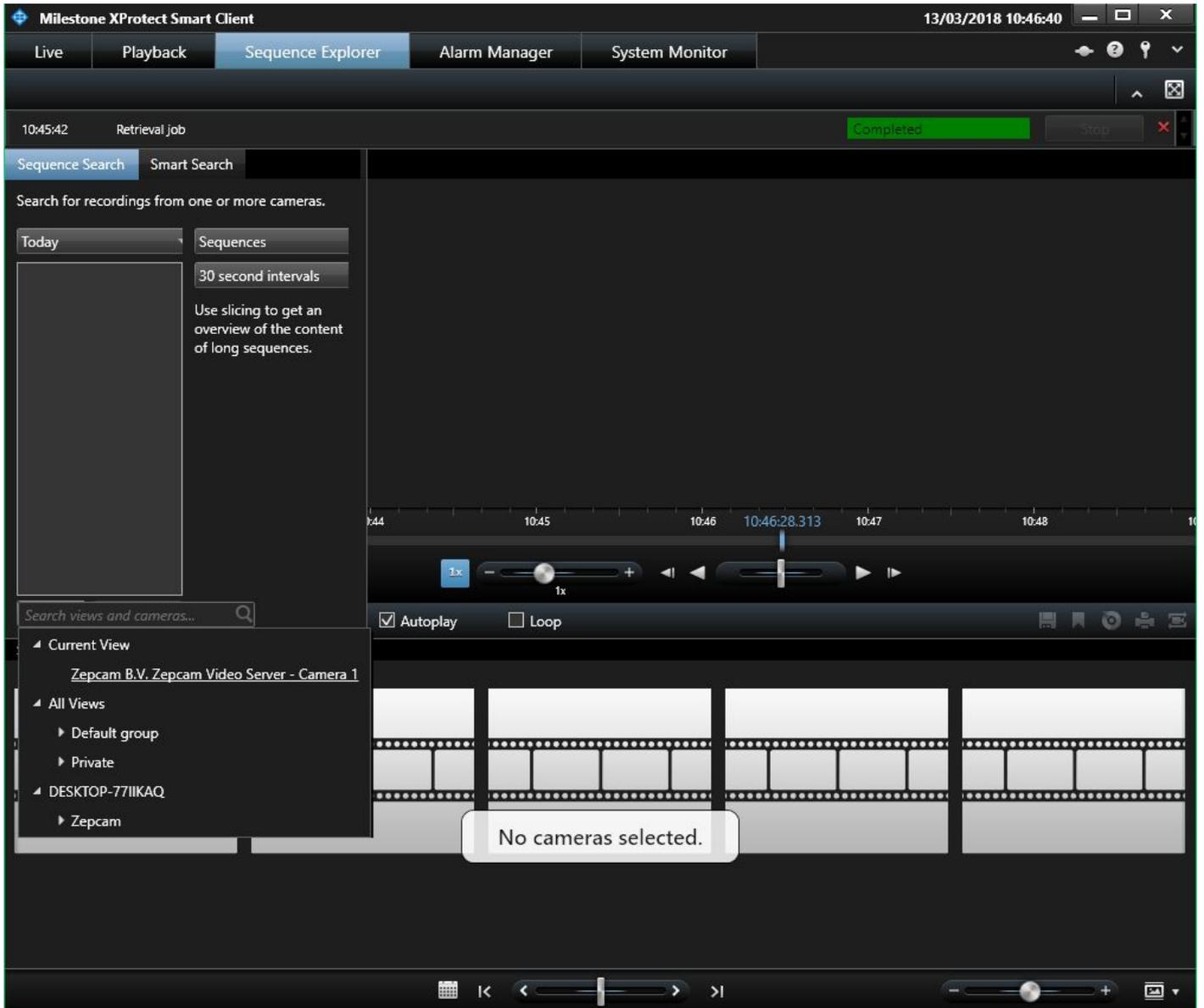
A final confirmation pop-up shows up, press "Start Retrieval" to start the retrieval process.



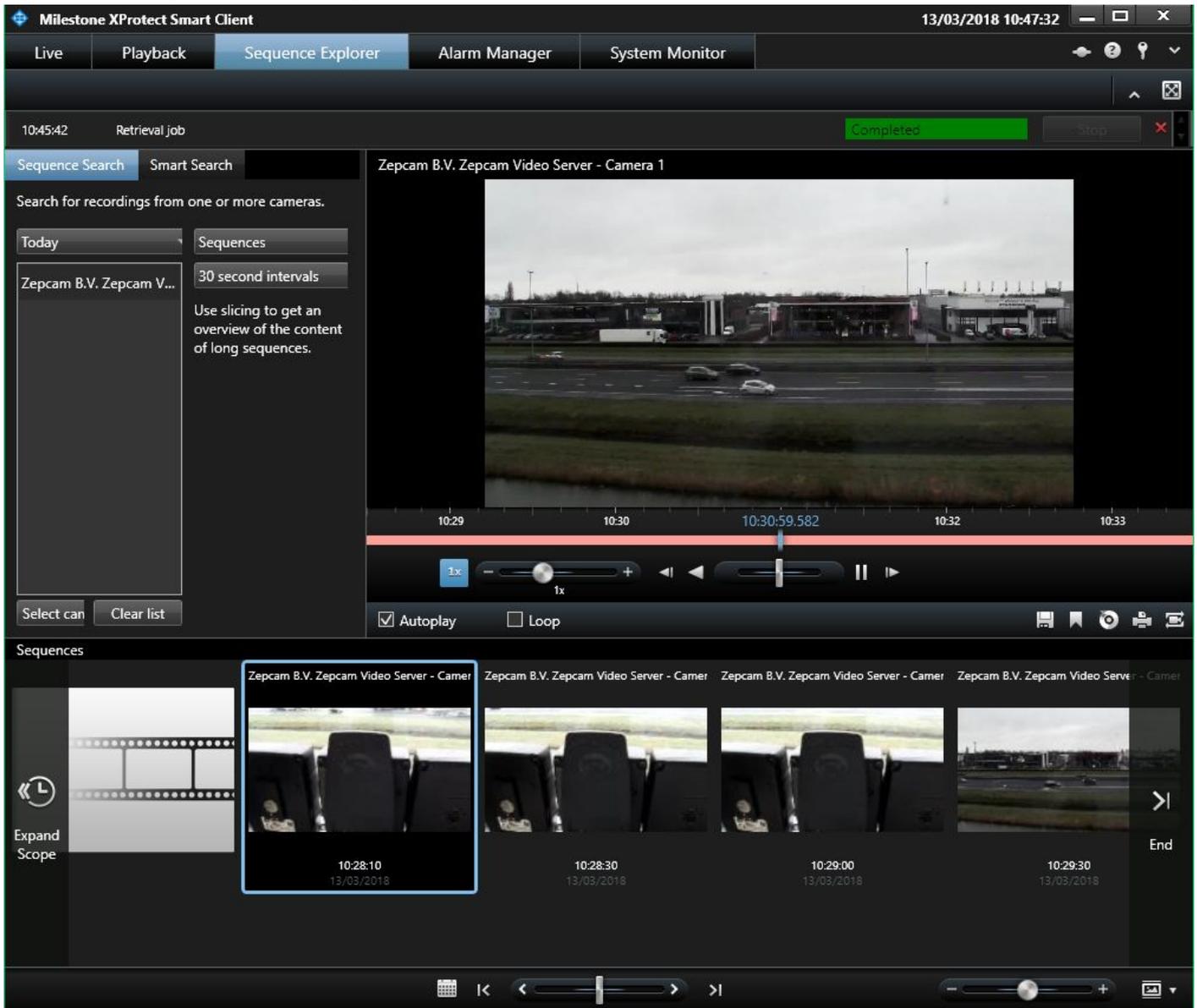
In the top of your screen it should state that a Retrieval job has begun. It might be Queued for a short amount of time. After that the state will change to "In Progress" followed by "Completed". In the time bar there should be a pink bar which means that recordings have been retrieved from that time.



Navigate to the "Sequence Explorer" to start your video playback. Add and select the camera you want to view the recordings from.



Now click the play button to play your video.



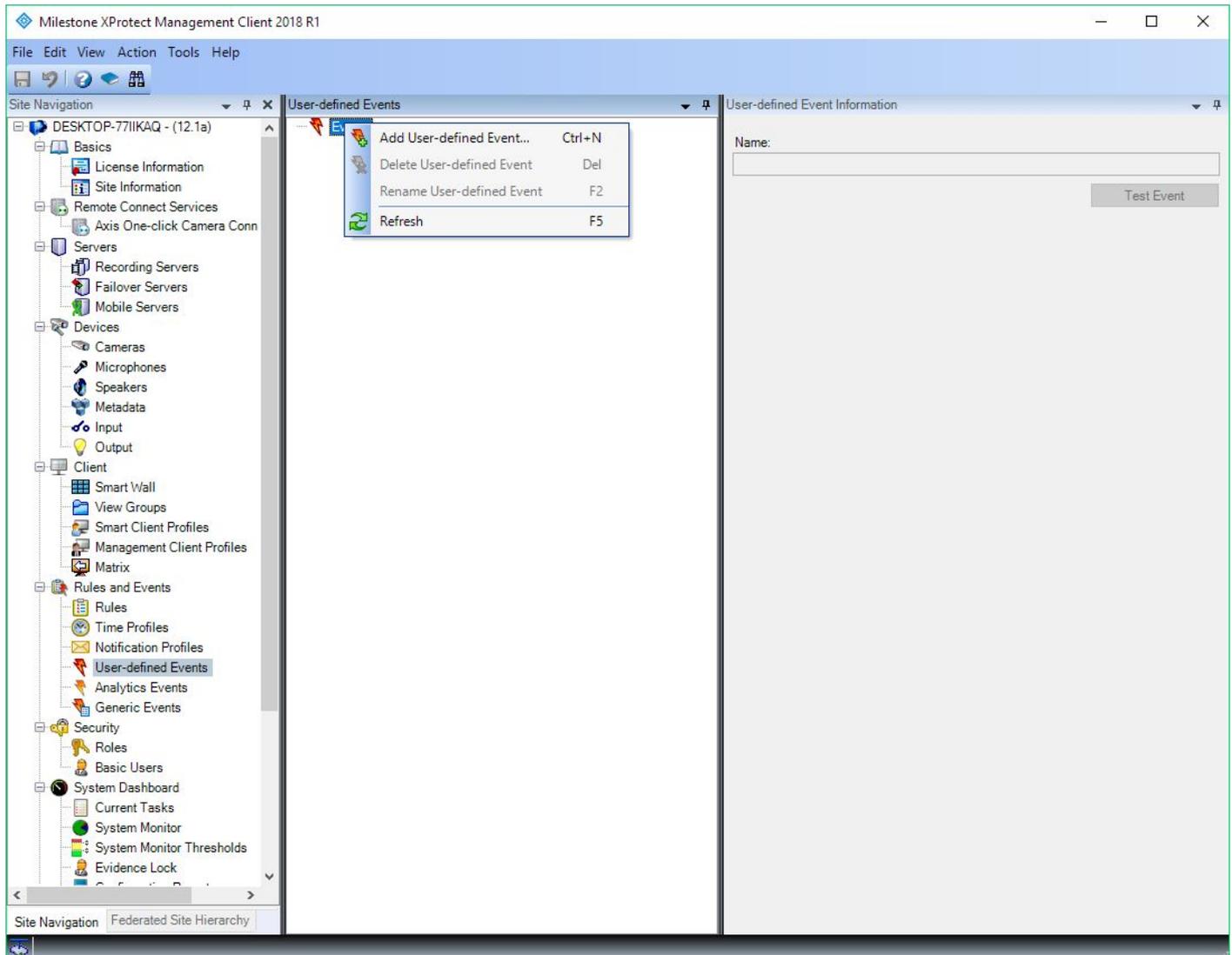
You've now successfully:

- Configured ZM with MXP via Onvif
- Used MXP to view your ZM live streaming devices
- Used MXP to retrieve recordings from ZM via Onvif Profile G.

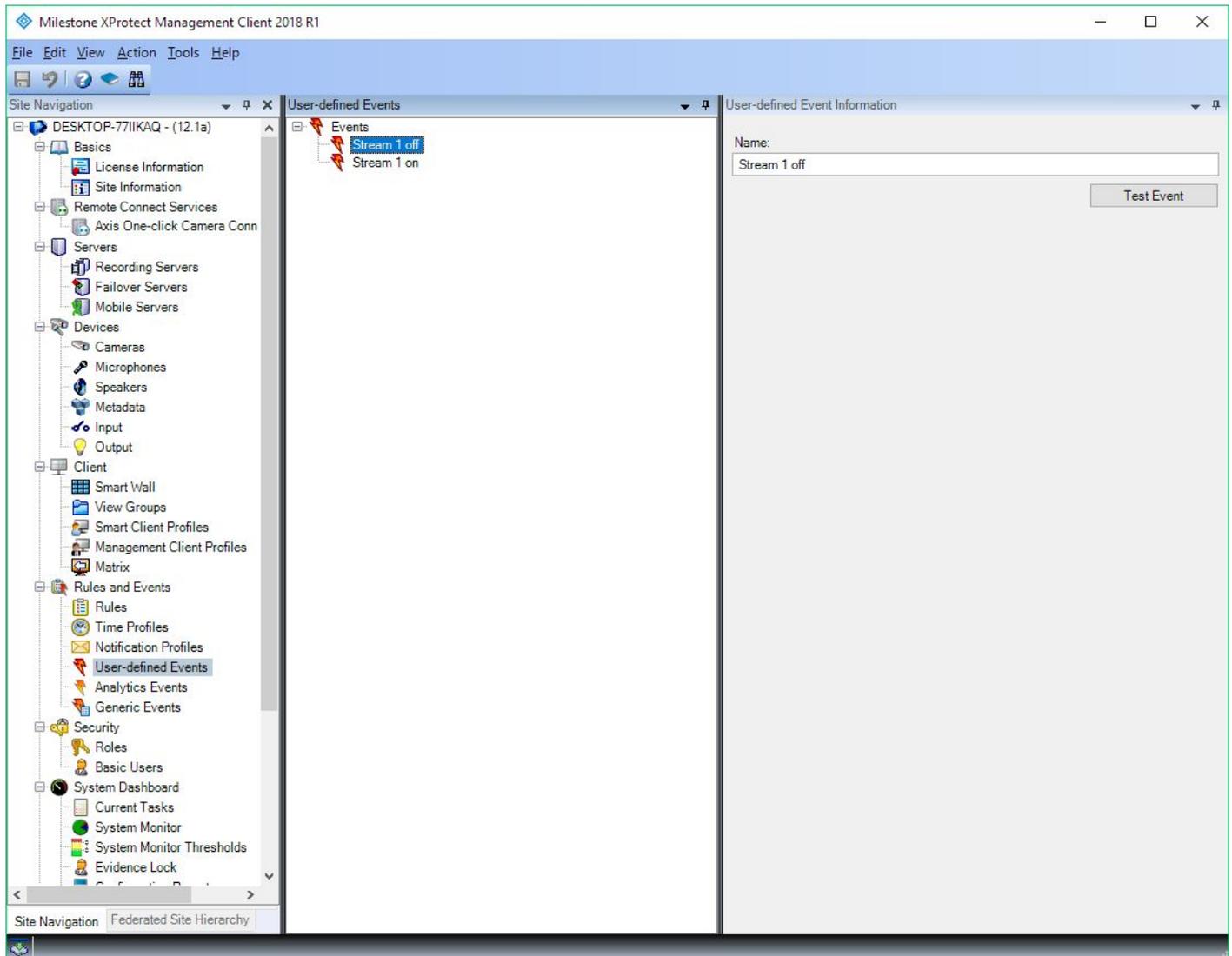
◆ Start and stop streams in Milestone XProtect Smart Client

The way ZM works with XPSC a camera should be streaming to ZM to be seen in XPSC. The user might want to be able to start and stop this stream without using ZM. This can be done by configuring some rules in XPMC. For this example we have already configured a Mobile Video Box on channel 1.

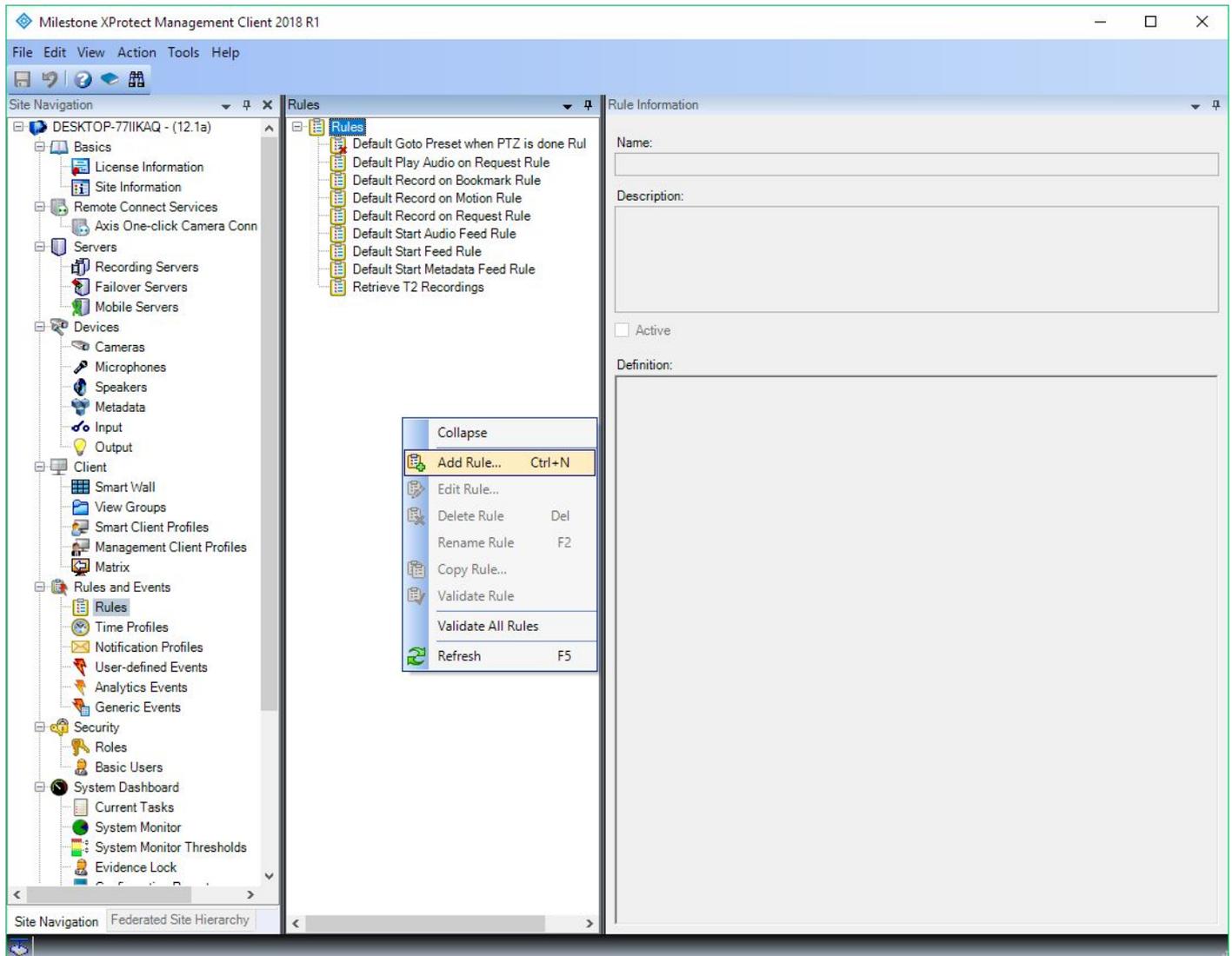
First you need to define two new user events: "Stream 1 on" and "Stream 1 off". To do this go to Rules and Events → User-defined Events and right click on Events to add a new user event.



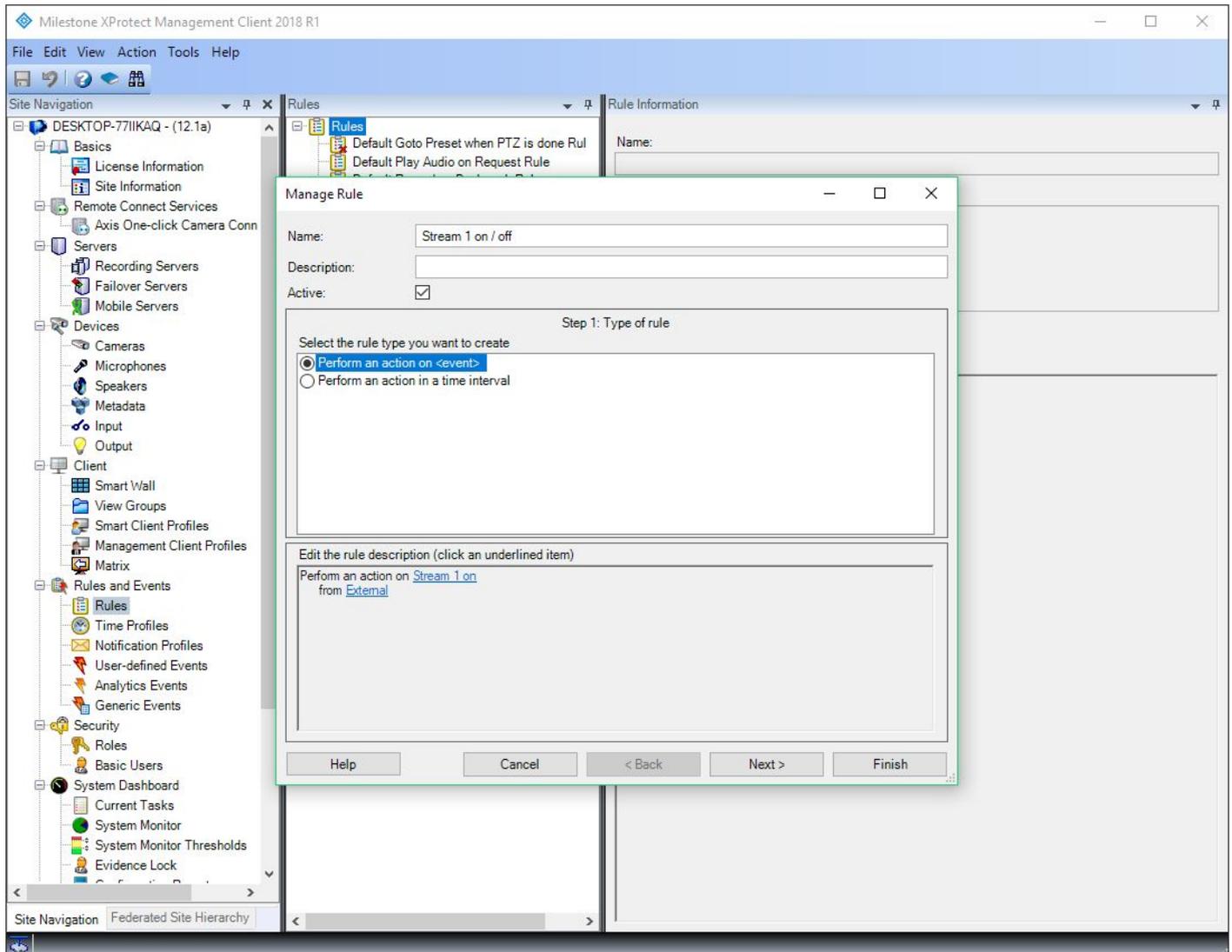
Enter the name "Stream 1 on" and click OK, repeat this for "Stream 1 off".



Now navigate to Rules and Events → Rules and right click to add a new rule.

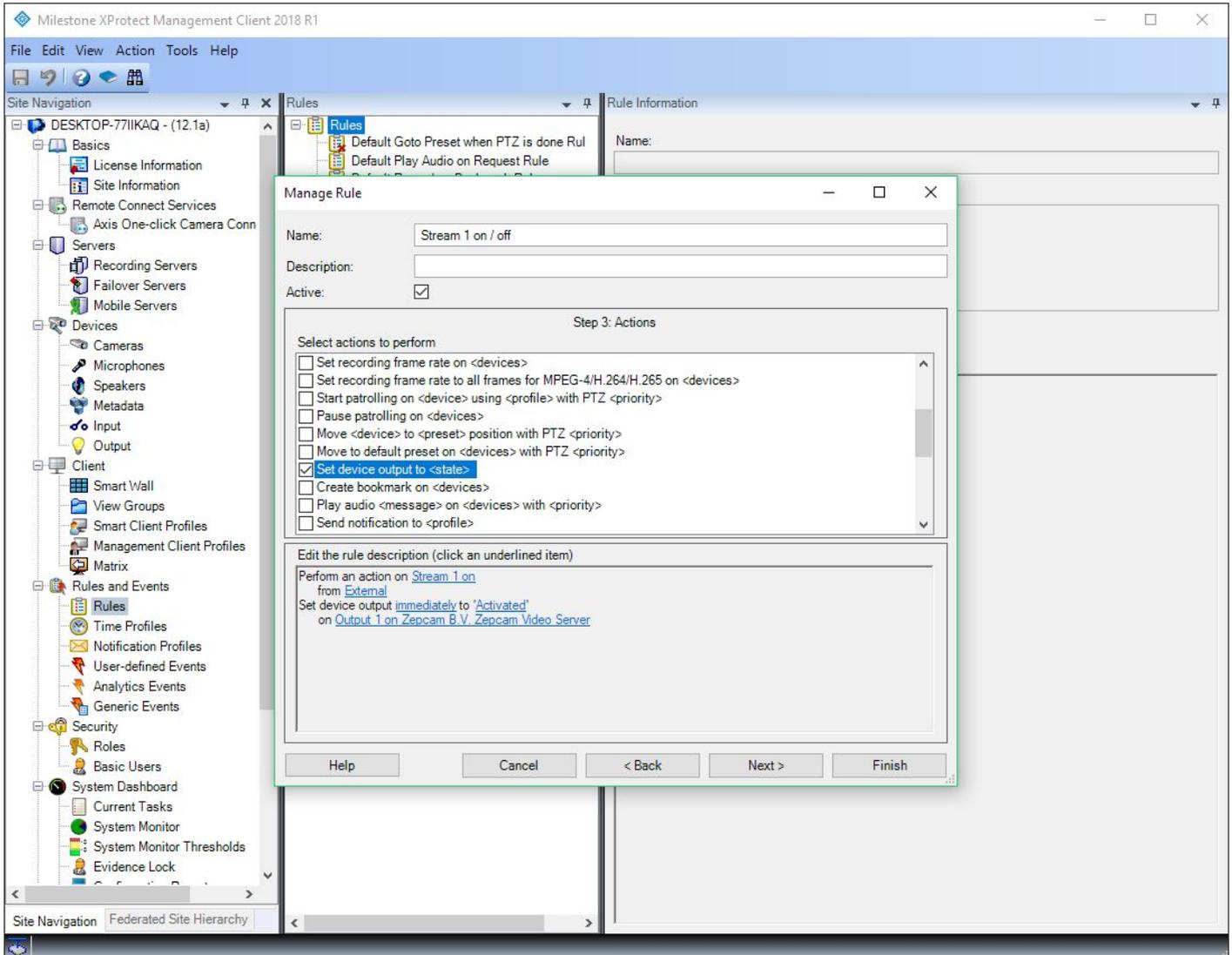


Fill in a name, for this example we're using "Stream 1 on / off". Select the "Perform an action on <event>" radio button, and couple it to the User-defined event "Stream 1 on". Now click next twice.

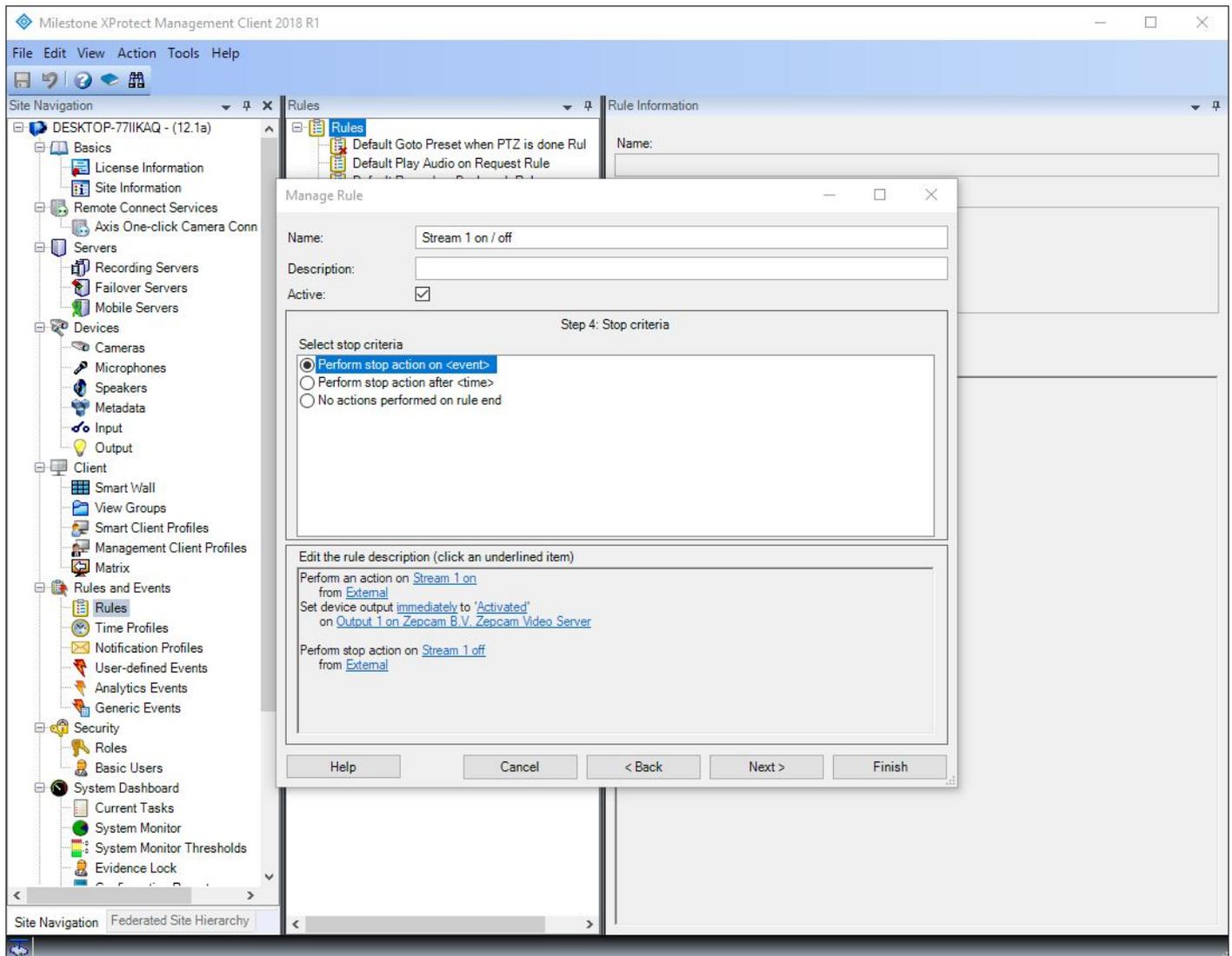


Check the "Set device output to <state>" checkbox. Set the state to "Activated" and Select output 1 as the triggering device. Now click next.

[Note] If you can't select output 1, make sure you have enabled output 1 in the Recording server.

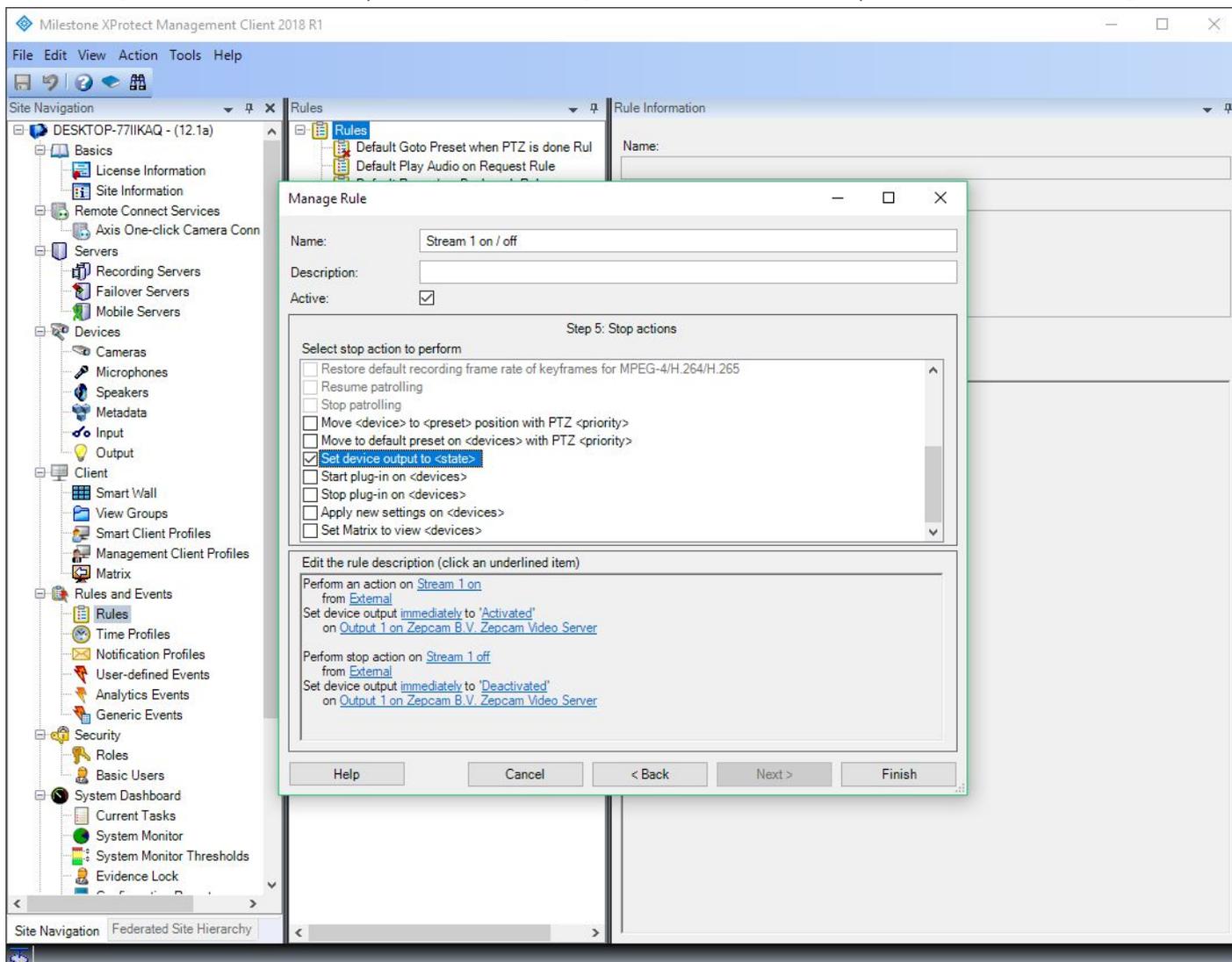


Select the "Perform stop action on <event>" button and couple it to the user-defined event "Stream 1 off". Now click next.

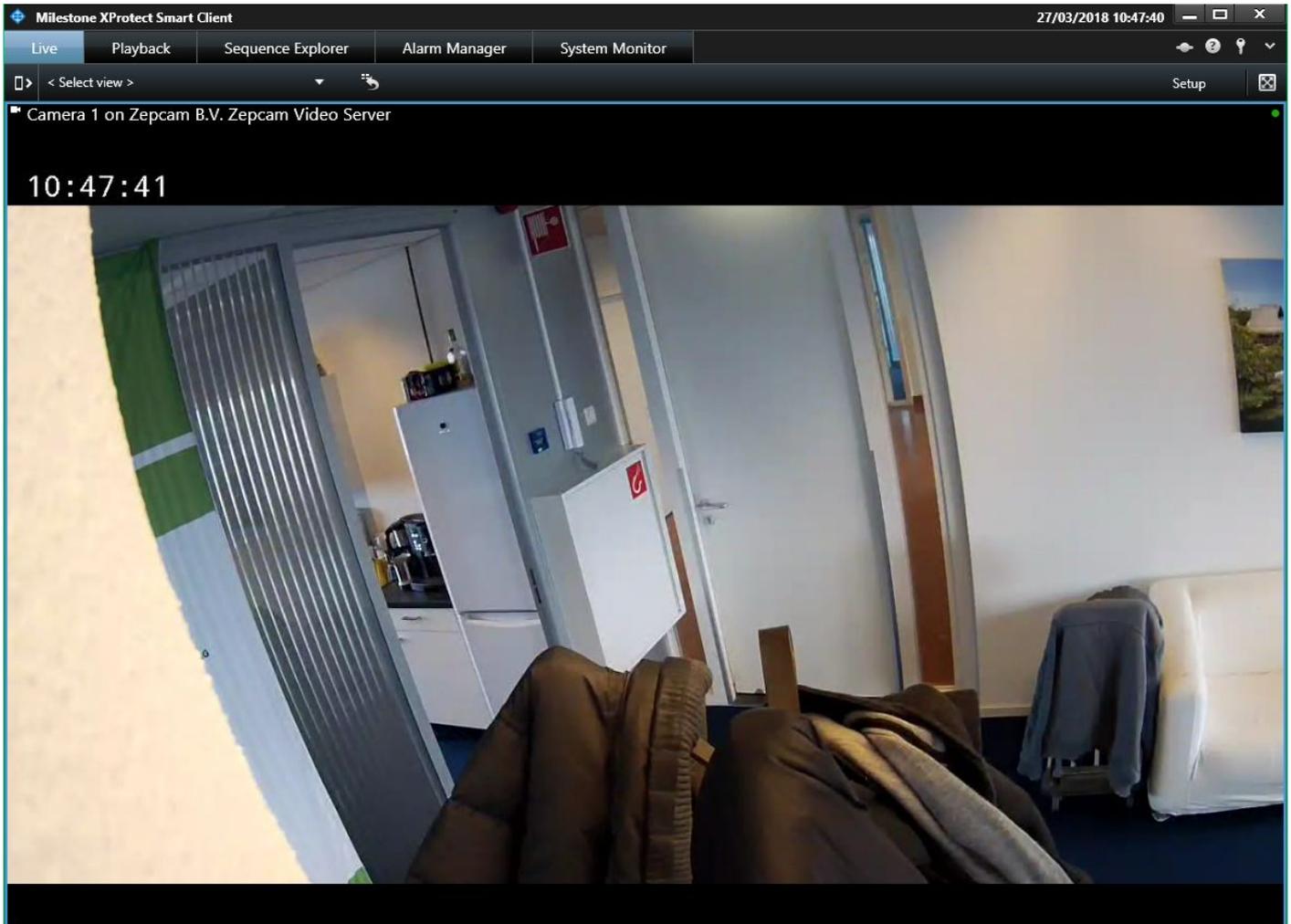


Check the "Set device output to <state>" checkbox. Set the state to "Deactivated" and Select output 1 as the triggering device. Now click finish.

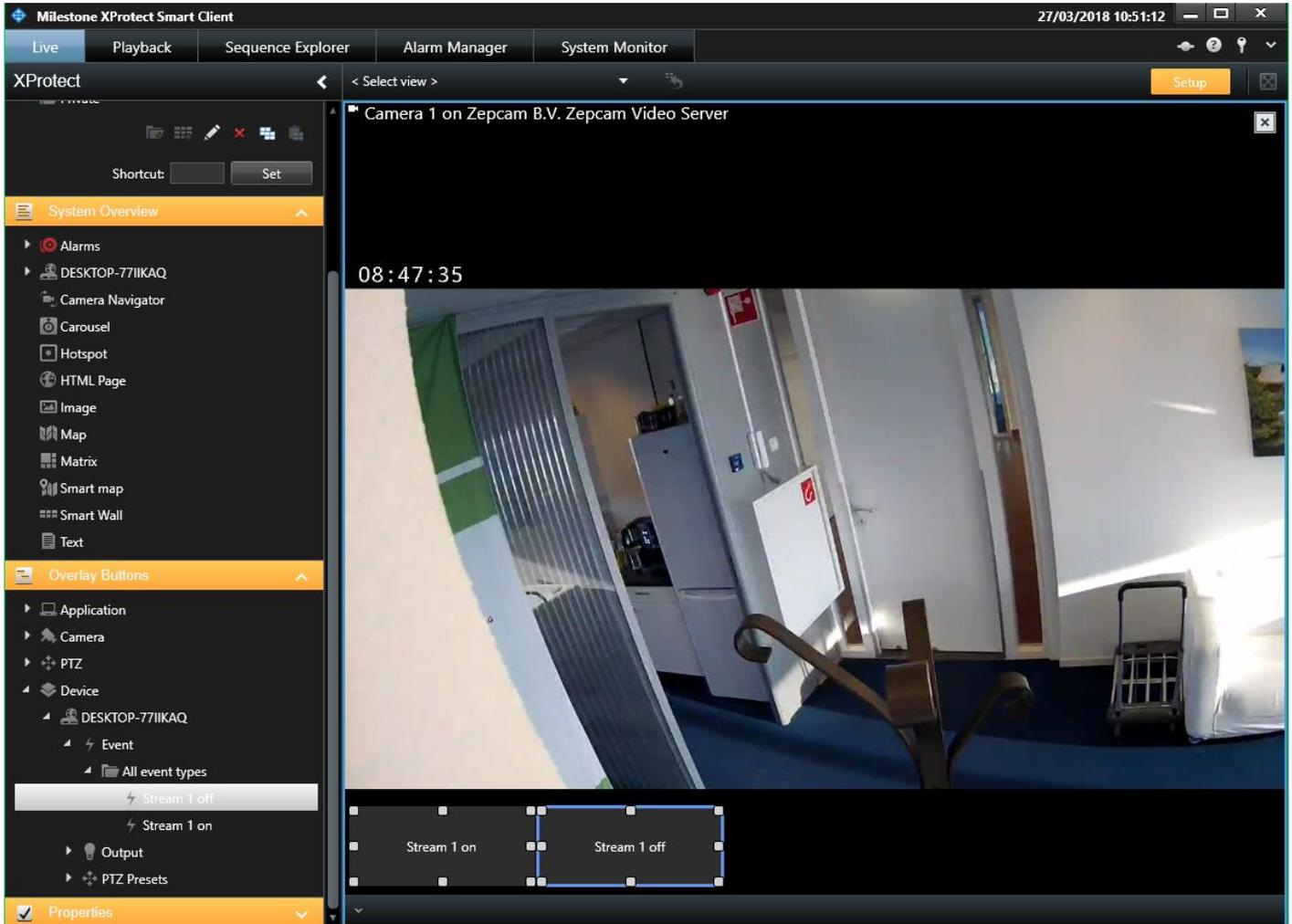
[Note] If you can't select output 1, make sure you have enabled output 1 in the Recording server.



Now open up XPSC, if you already had it open, close it and re-open it so the updates made in XPMC will show in XPSC. Open the live tab and select camera 1.

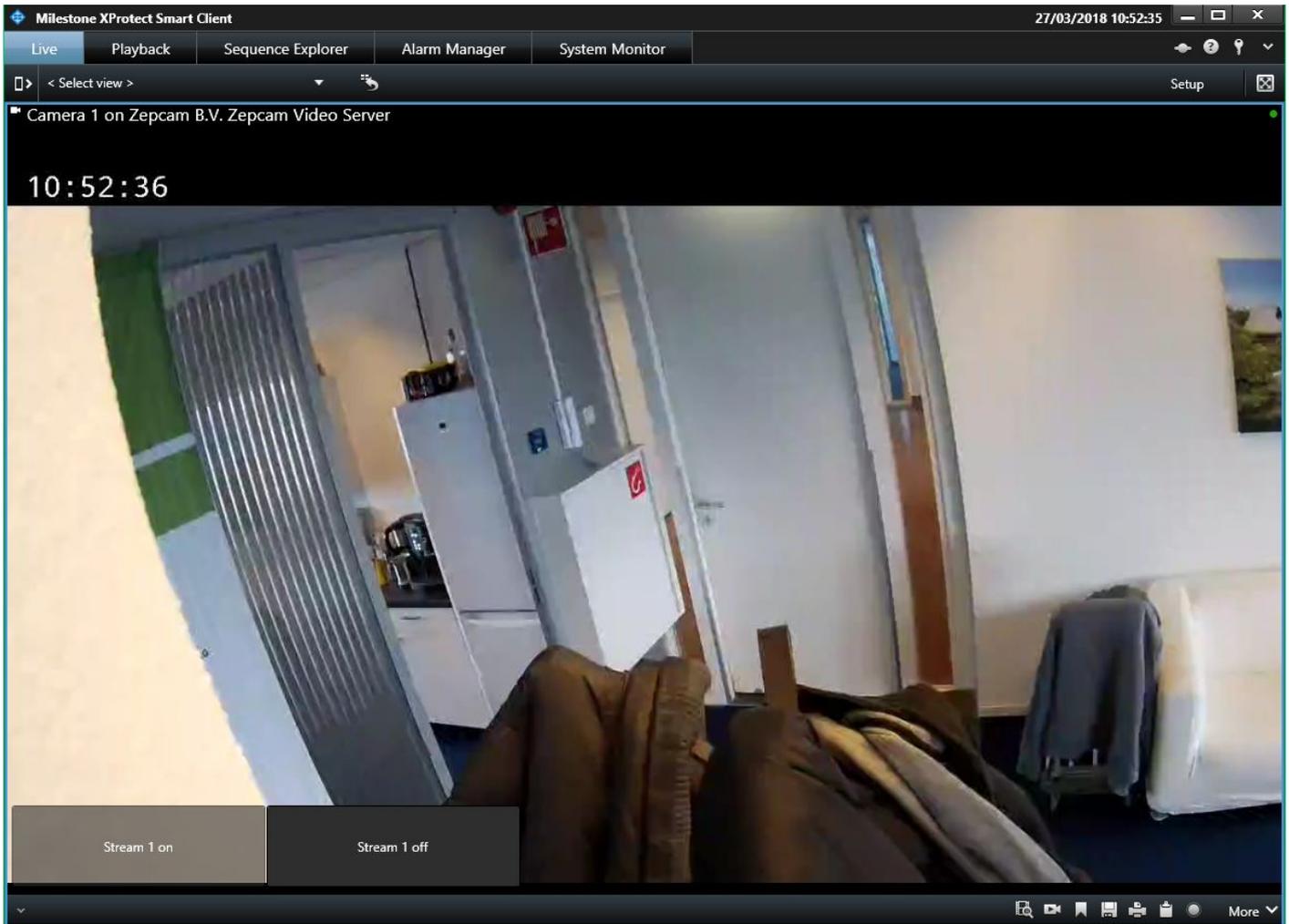


Now click the setup button in the top right corner. Go to Overlay Buttons → Device → [desktop name] → Event → All event types. Drag the “Stream 1 on” and “Stream 1 off” into the camera view.



Now click the setup button again in the top right corner to save these settings. You can now try these buttons to start and stop the video stream.

[Note] The buttons are only visible when you hover over them.

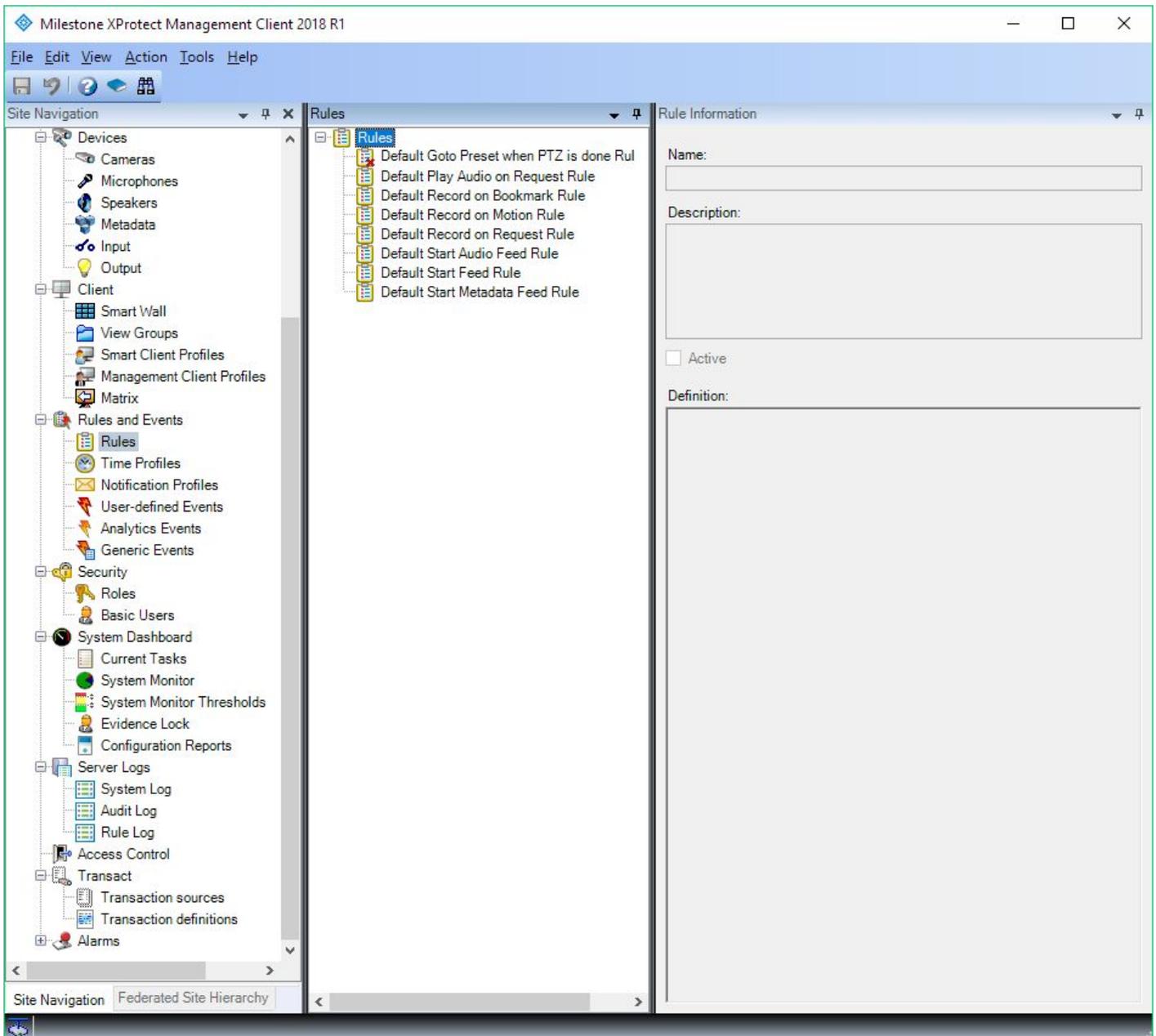


◆ Automatic retrieval

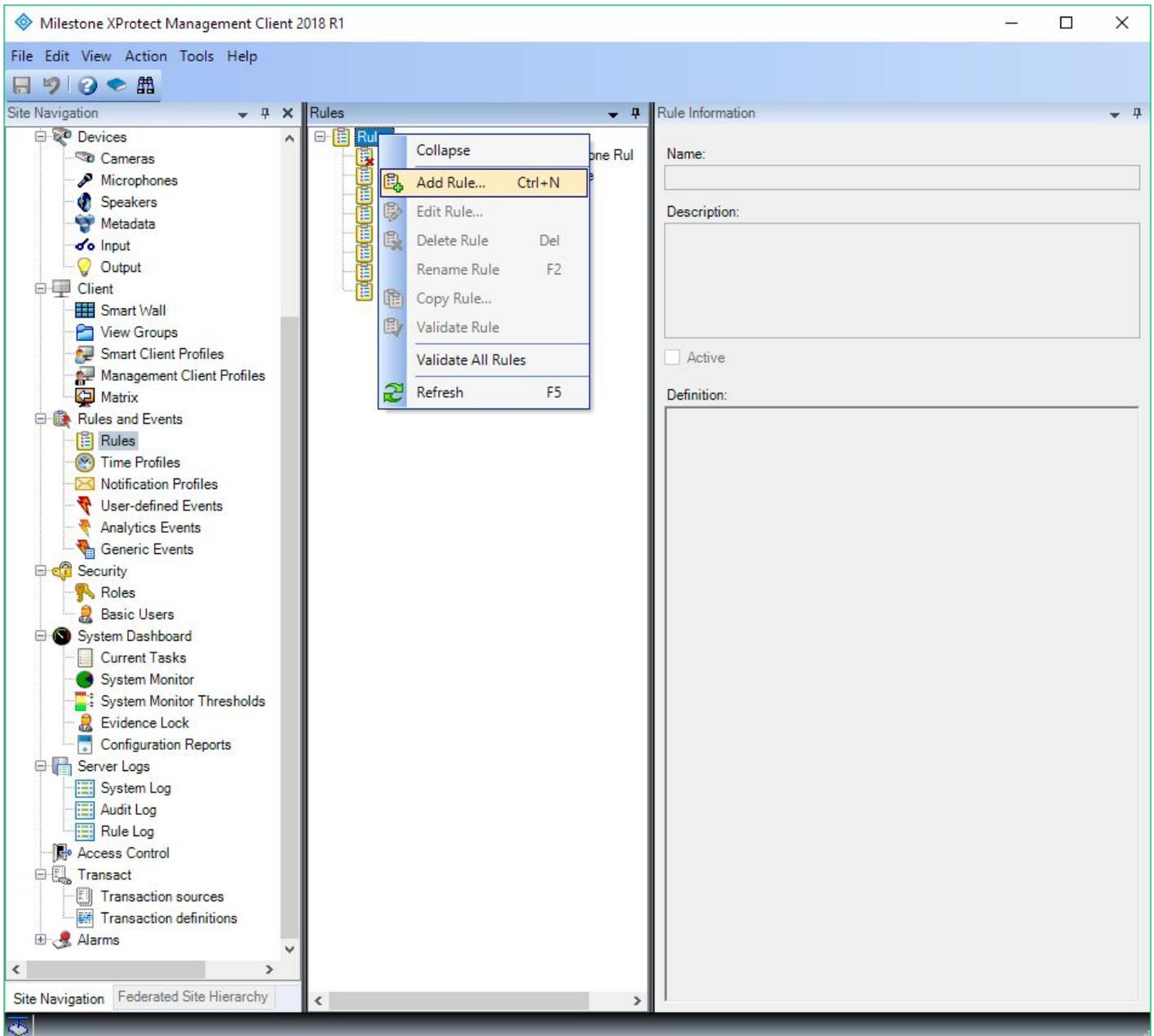
Before setting up automatic retrieval for your recordings you should have already completed the basic integration chapter in this manual.

[Note] DO NOT check the “Automatically retrieve remote recordings when connection is restored” checkbox in the recording section of the camera. This will crash XPMC and XPSC.

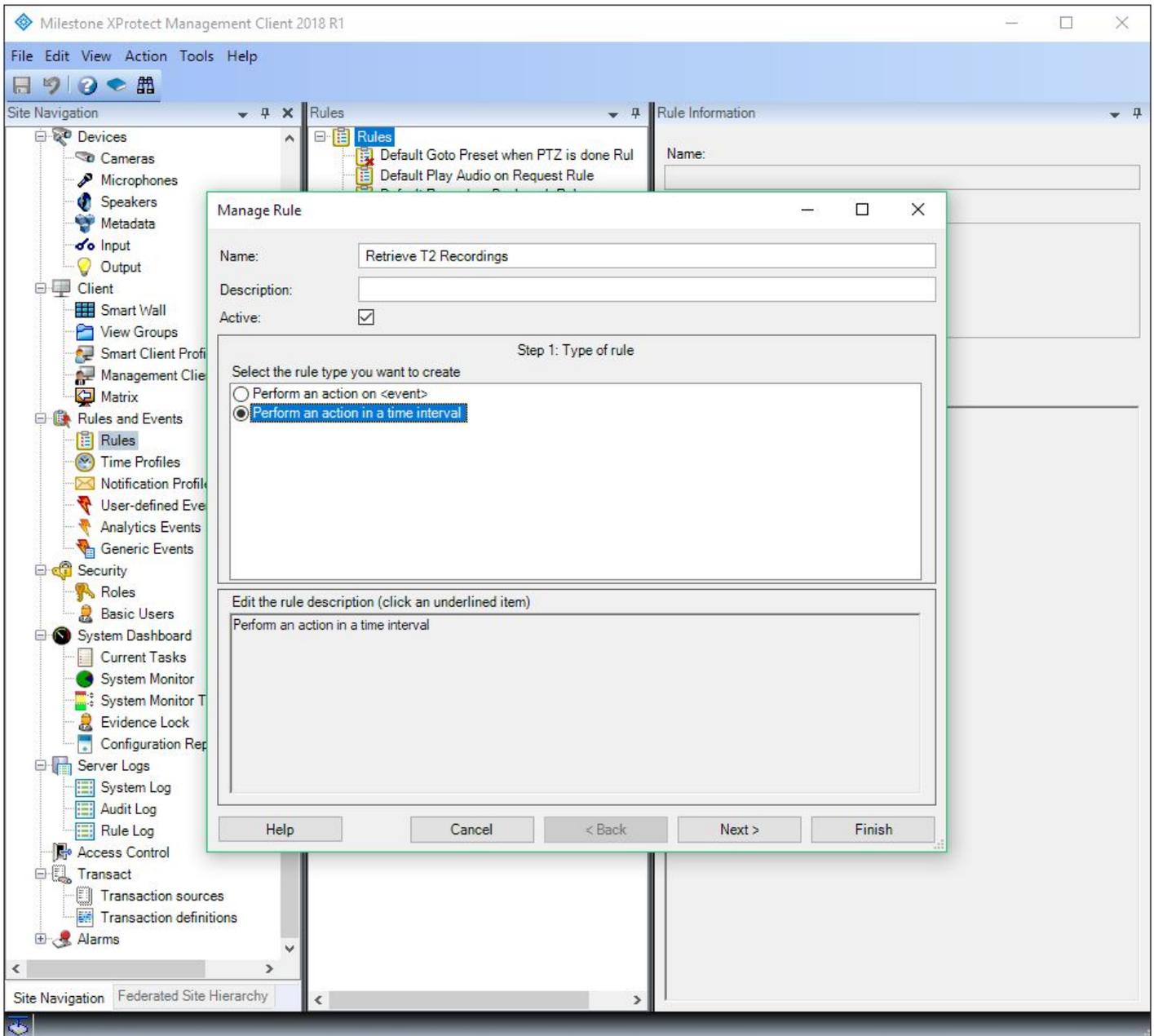
Open XPMC and go to “Rules”



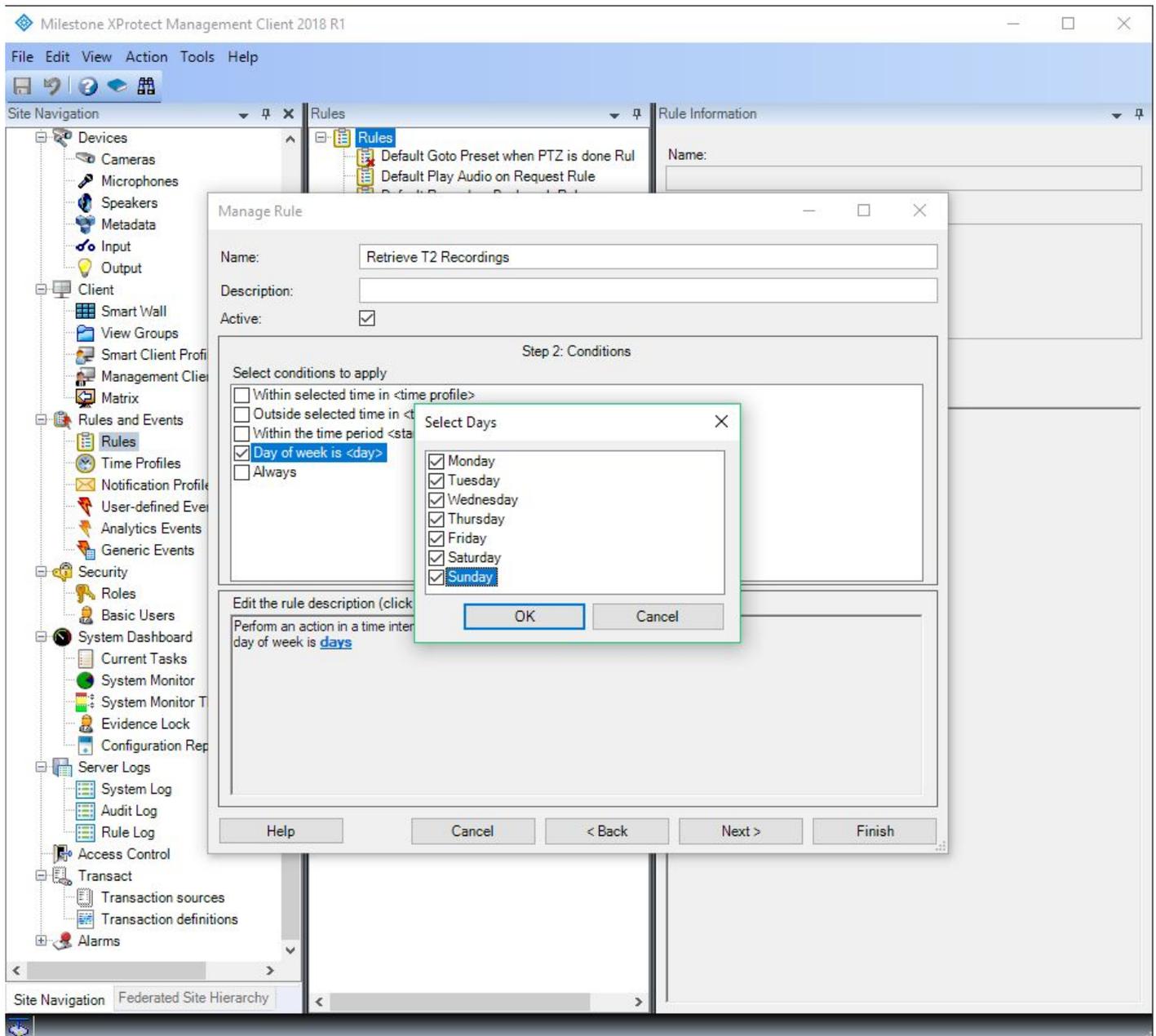
Right click in the rules section and click "Add Rule..."



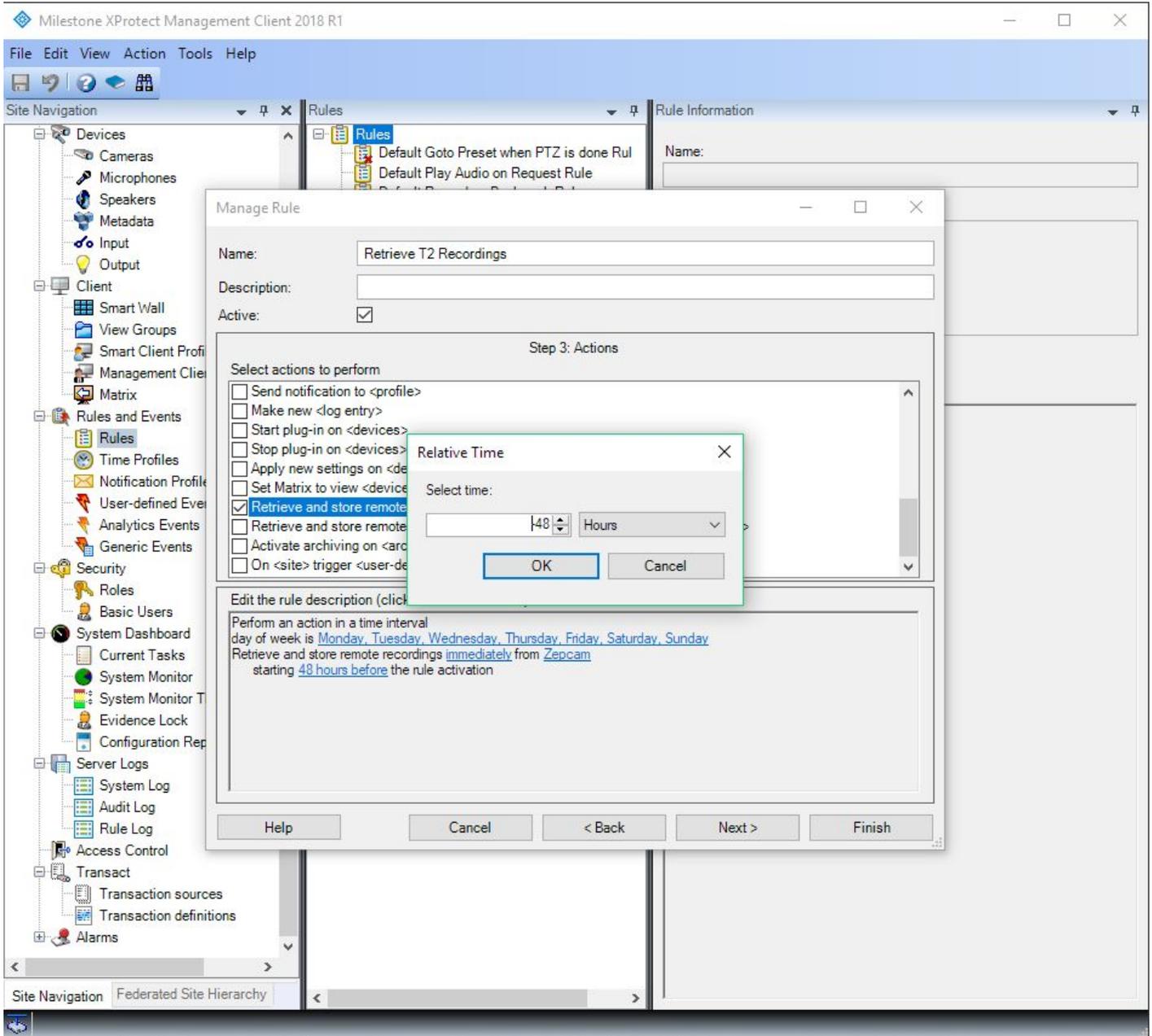
Click "Perform an action in a time interval", fill in a name for your rule and click next



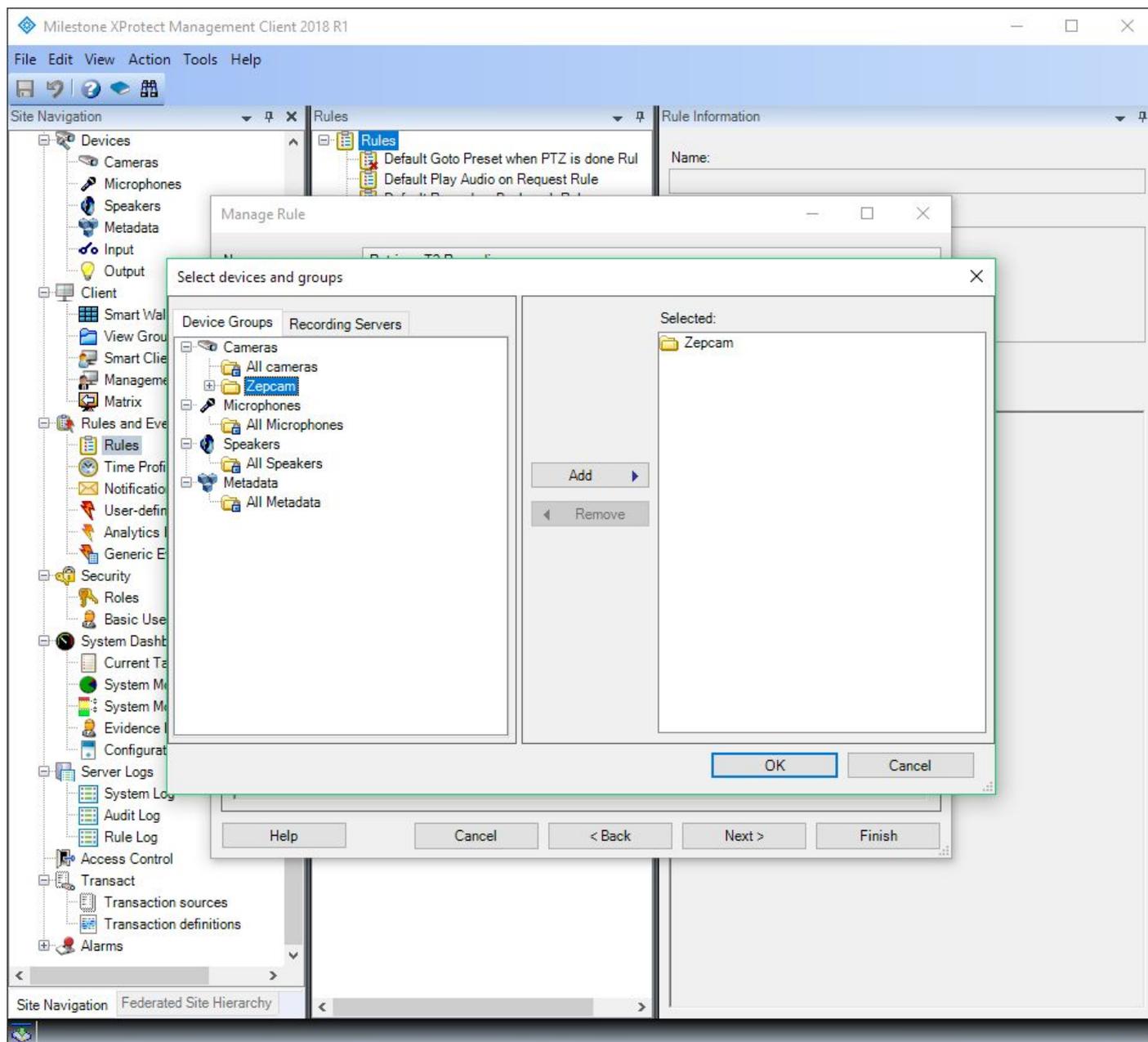
Select "Day of the week is <day>" and select every day.
Click OK and click next.



Select "Retrieve and store remote recordings"
Select "48 hours before" and configure -48 hours.



Now select the cameras you'd like to get recordings from, in our case: Zepcam Cameras
Click add and OK.



Now click Finish and your automatic retrieval is set.

Everyday it will check the last 48 hours for new recordings and retrieve them.

[Note] If your T2 the recordings are not available within 48 hours in the past, you should retrieve them by hand as explained in the previous chapter.