Scylla
User Manual
Scylla - Milestone VMS Integration

Introduction

This manual provides an overview of Scylla Alarm Receiver plugin for Milestone Video Management System (VMS) and instructions on how to use it.

This plugin adds additional functionality to Milestone Video Management System to support Scylla AI Modules.

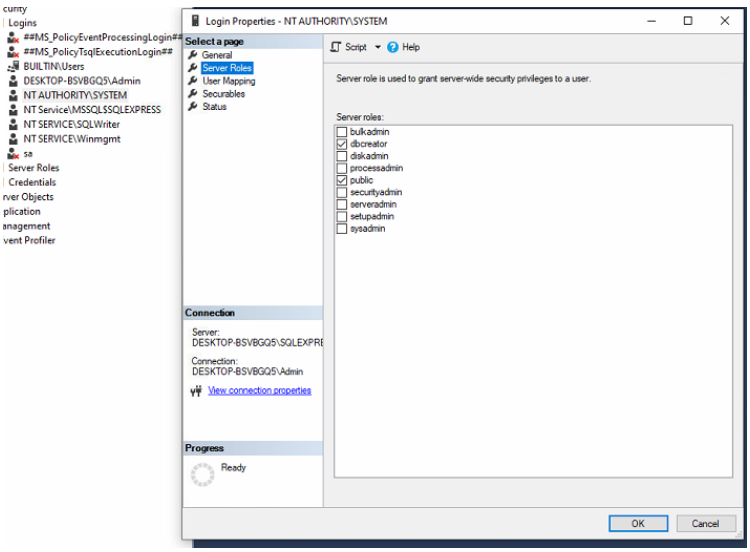
Scylla has two-way fully integration with Milestone Xprotect system which means that it takes input from Milestone Server and reports back to Milestone Smart Client.

Scylla Alarm Receiver Setup

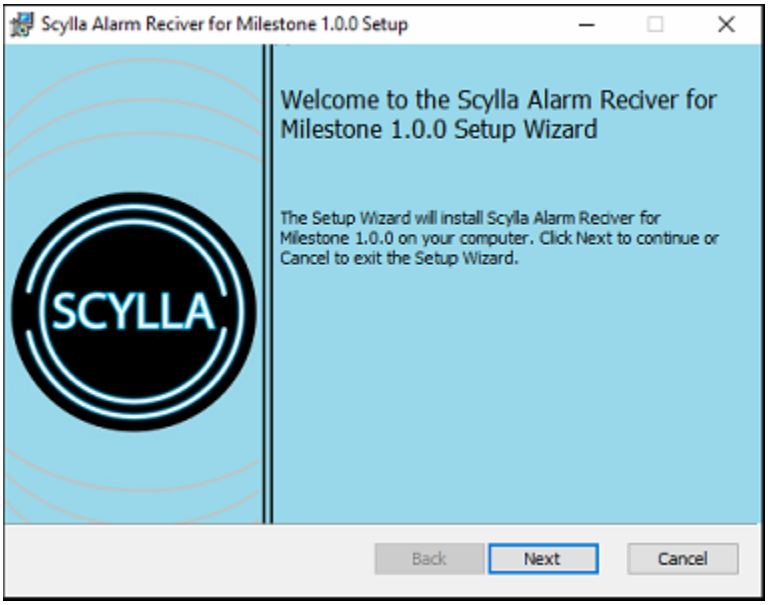
Scylla Alarm Receiver setup file for Milestone can be downloaded from Scylla's Cloud Dashboard.

Prerequisite:
- .Net Framework 4.8
- .Net Runtime 6.0
- Milestone ONVIF Bridge
- MS SQL Express with Local System Account having the dbcreator role enabled

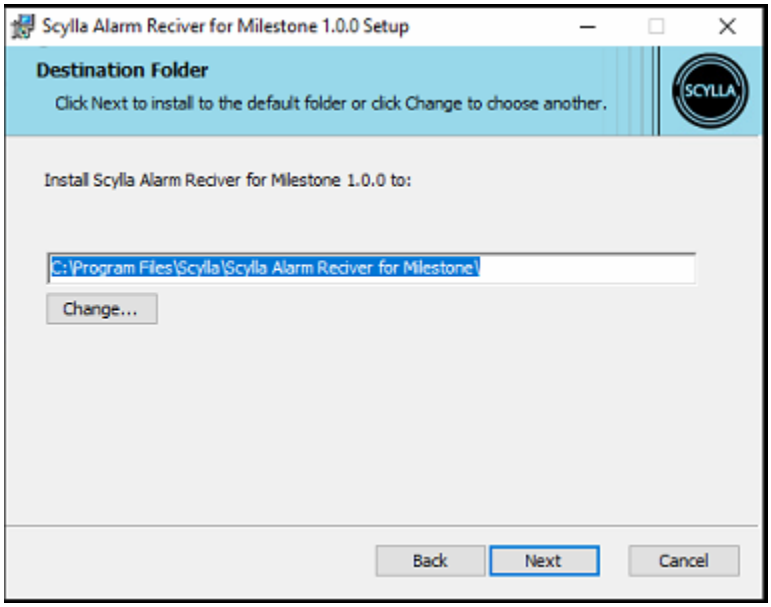
Right click on the Local System Account -> Properties -> Server Roles and enable dbcreator



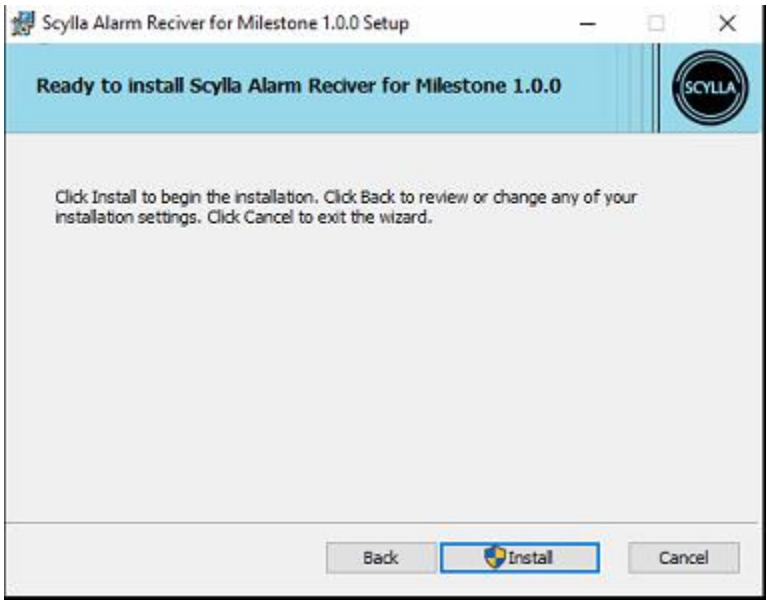
To setup Scylla Alarm Receiver do the following:
1) Open the ***ScyllaAlarmReceiver.Milestone.Setup.msi*** file. Click **Next.**



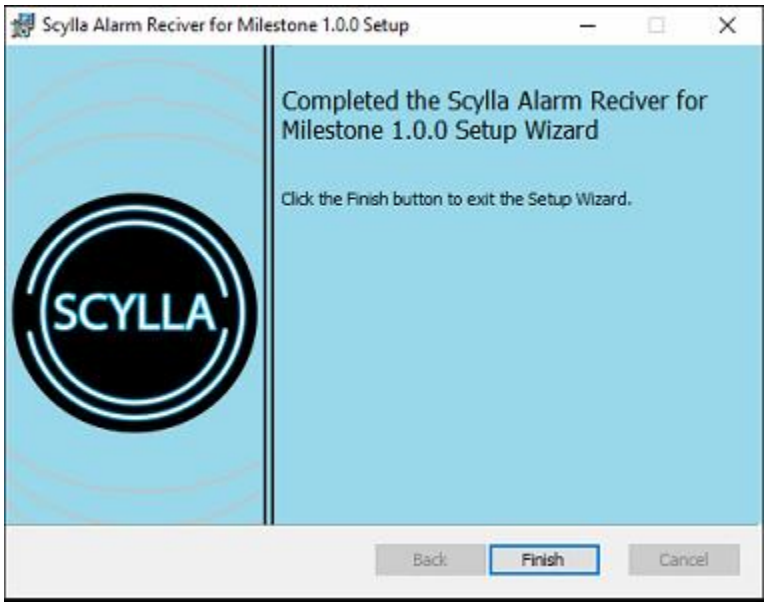
2) Specify the installation path.
For example C:\Program Files\Scylla\Scylla Alarm Reciver for Milestone
Click **Next.**



3) Click **Install.**

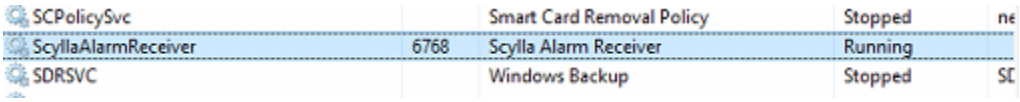


4) Click **Finish**.



Configuring Scylla Alarm Receiver

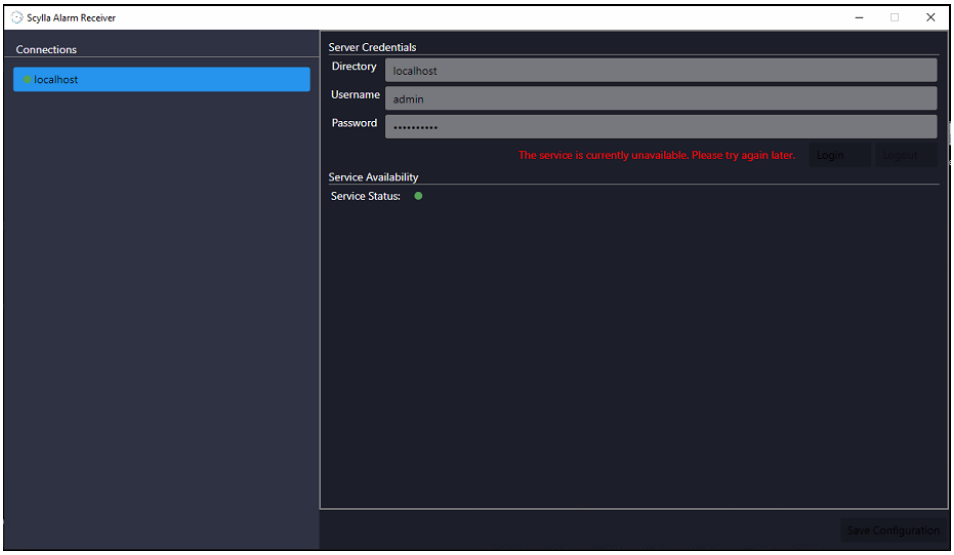
Make sure ScyllaAlarmReceiver service is running.



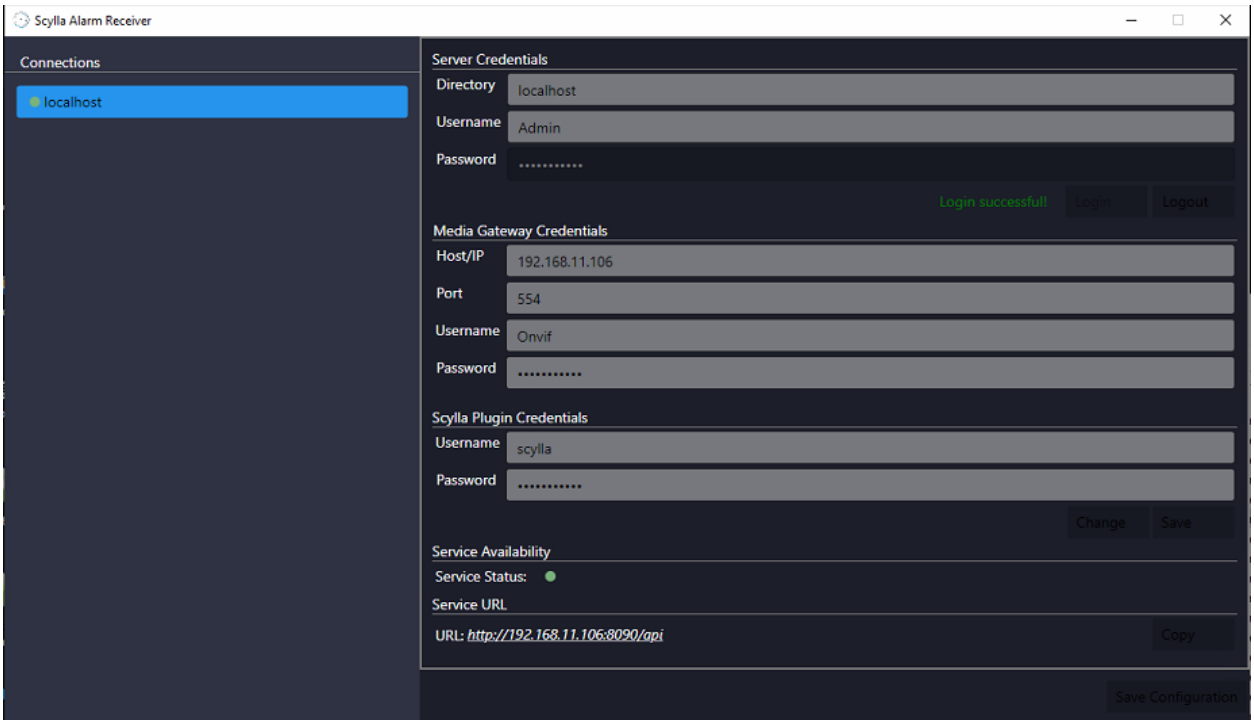
Launch the Scylla Alarm receiver 

and the below window will show up

Fill the Server Credentials



Enter Milestone Server credentials and click **Login**.
After Successful connection to the server, new configuration fields will be displayed.

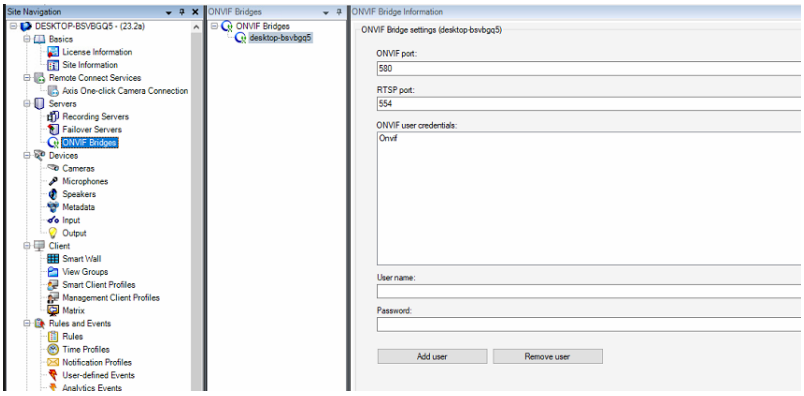


Fill the Media Gateway Credentials

Need to install Milestone Onvif Bridge.
Note: ONVIF bridge only supports H.264 stream.

Host/IP: IP address of the ONVIF Bridge (same as Milestone Server)
Port: RTSP port in ONVIF Bridge configuration

Xprotect Management client -> Onvif Bridges

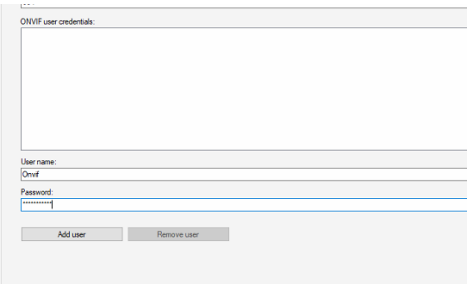


Username & Password: Credentials for ONVIF Bridge.

Xprotect Management Client

Create a new Basic User, then add it to the Administrator role.

In the Onvif Bridges page, Type Username and Password and Click **Add user.**



Now type the same username and password in the Scylla Alarm receiver, under Media Gateway credentials.

Fill the Scylla Plugin credentials

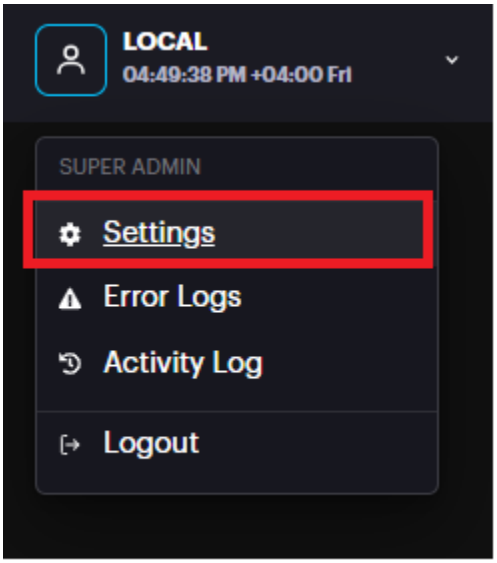
Username & Password: Set username and password that will be used in the Scylla Asteria or Scylla On-premise dashboard Alarm Endpoint configuration page to establish a link.

Click **Save.**

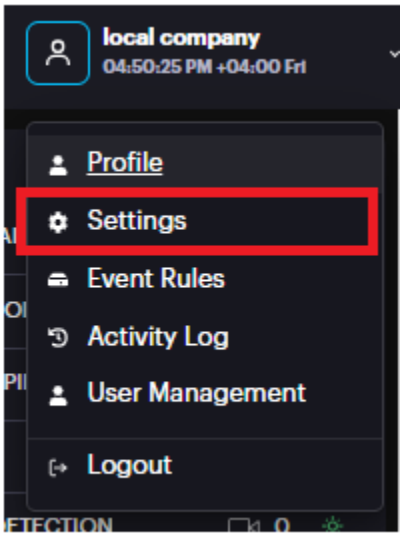
Click **Save Configuration.**

Scylla Dashboard Configuration

Open the **Scylla Asteria** or **Scylla On-Premise Dashboard.**
Go to **Account menu -> Settings**

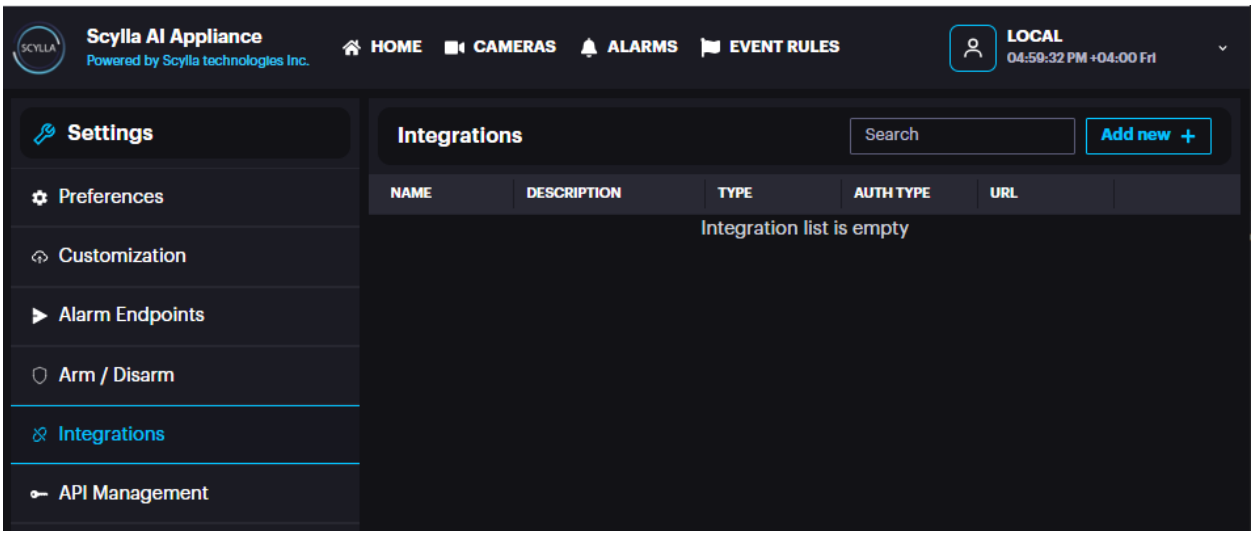


Scylla Asteria

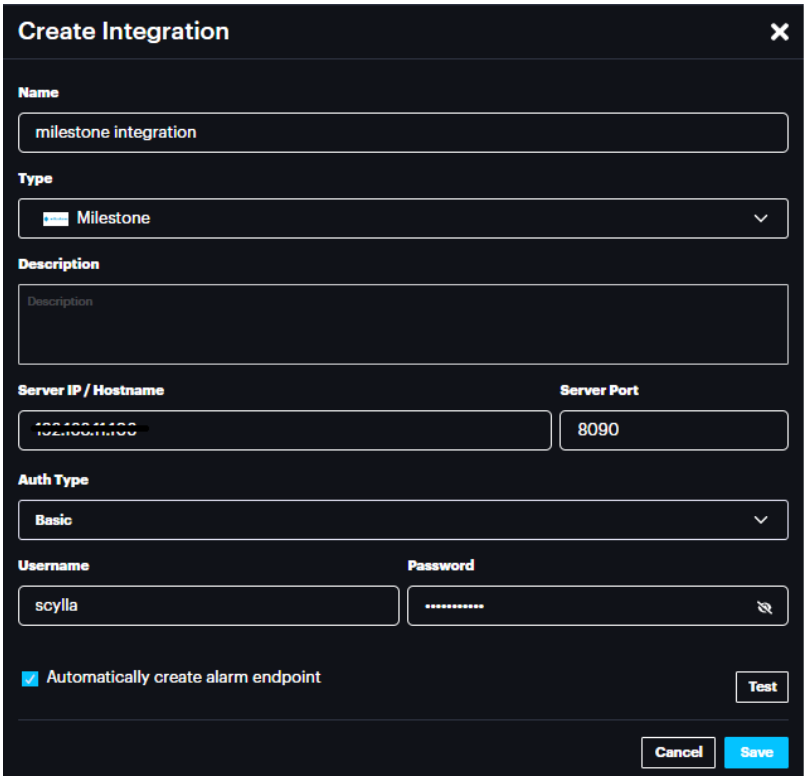


Scylla On-Premise

Now navigate to **Integrations** menu

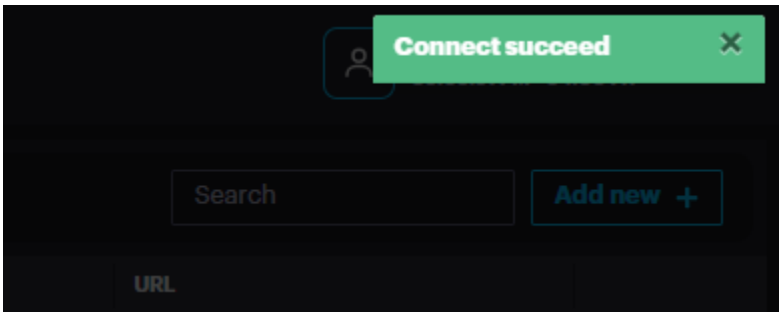


Click **Add new +**



Name: name the integration
Type: Select Milestone from the list
Description: Add a description if needed
Server IP/Hostname: IP address of the Milestone Server/Scylla Alarm receiver
Port: 8090
Auth Type: Basic or Bearer (select Basic)
Username: username that is set in the Scylla Alarm Receiver -> Scylla Plugin credentials part
Password: password that is set in the Scylla Alarm Receiver -> Scylla Plugin credentials part

Click **test** to test the connection, if successfully connected then a message will be displayed.

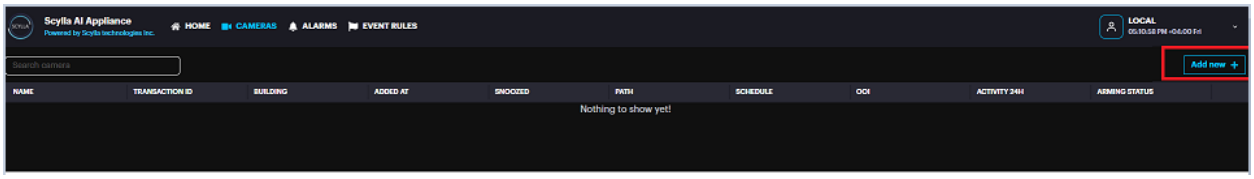


Automatically create alarm endpoint: If enabled, an alarm endpoint will be automatically created in the settings-> alarm endpoints

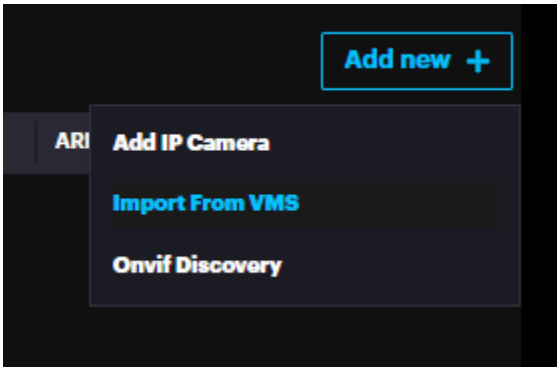
Importing Cameras from VMS

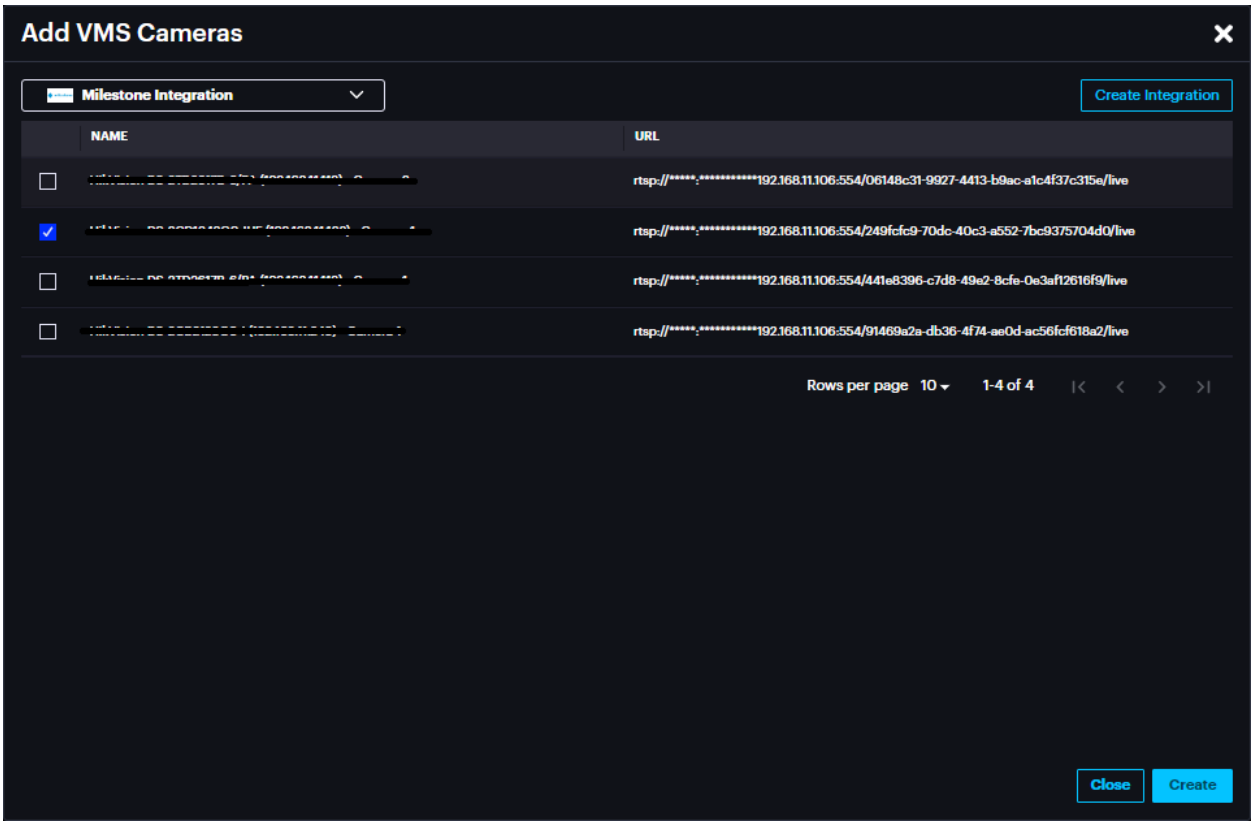
Scylla Asteria

Go to Cameras page and click **add new +**



Select **Import From VMS**



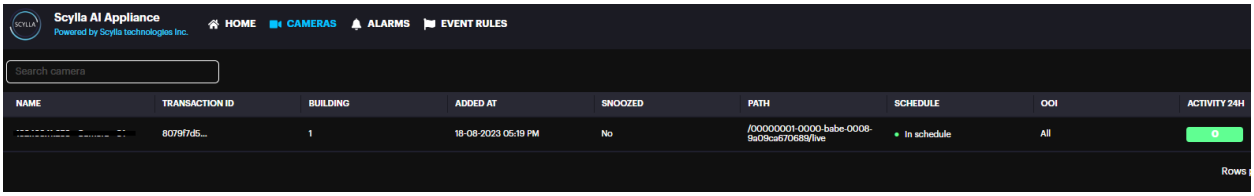


Select the Integration created previously from the drop-down menu.

Cameras from Milestone server will appear in this window, enable the cameras to be imported to Scylla Asteria.

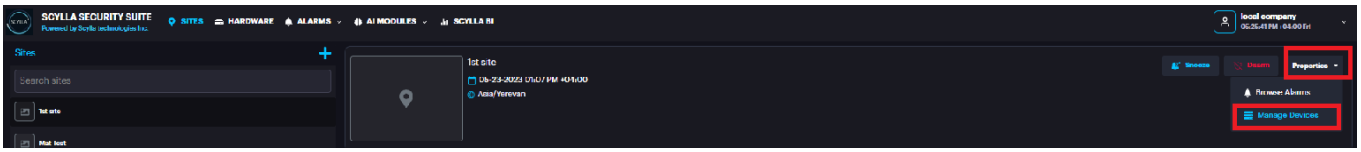
Click **Create**

The imported camera(s) will be shown in the Cameras page.

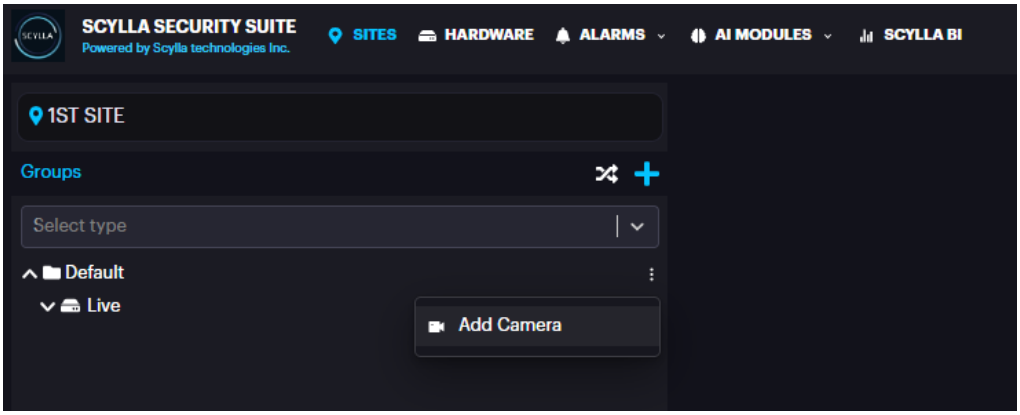


Scylla On-Premise

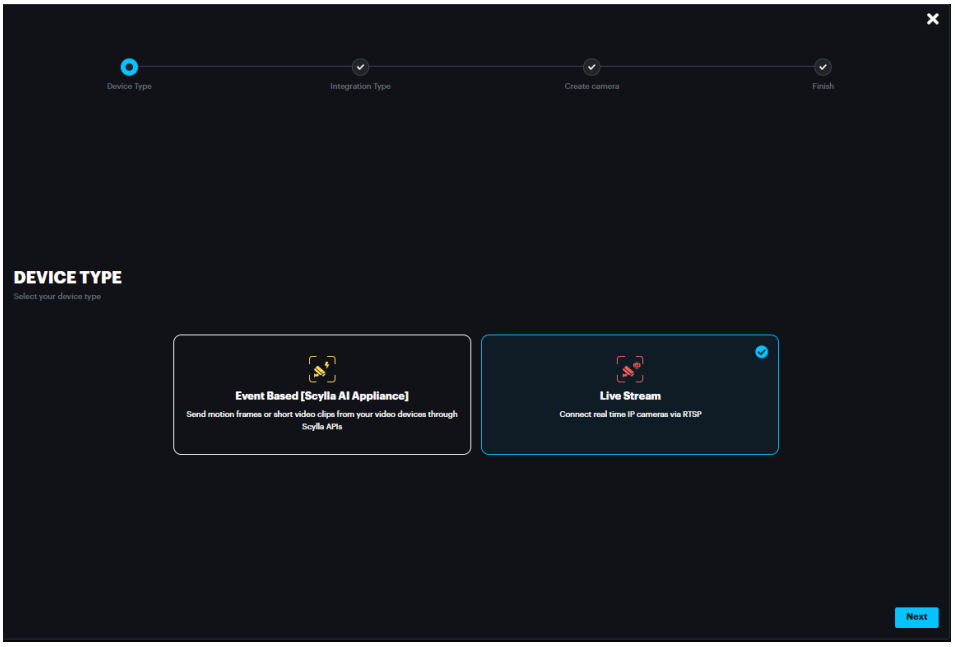
Go to Sites page , select a site -> **Properties -> Manage Devices**



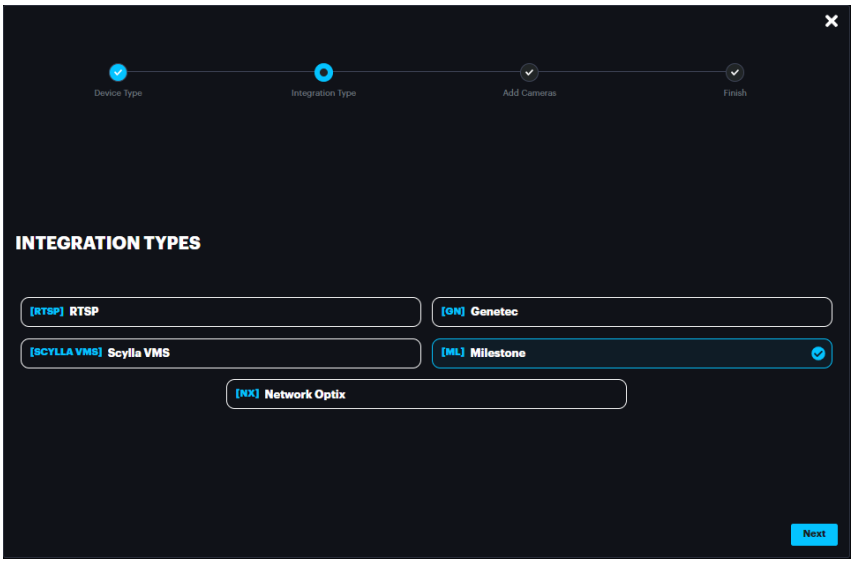
Click the three dots near the Group (Default) -> Add Camera



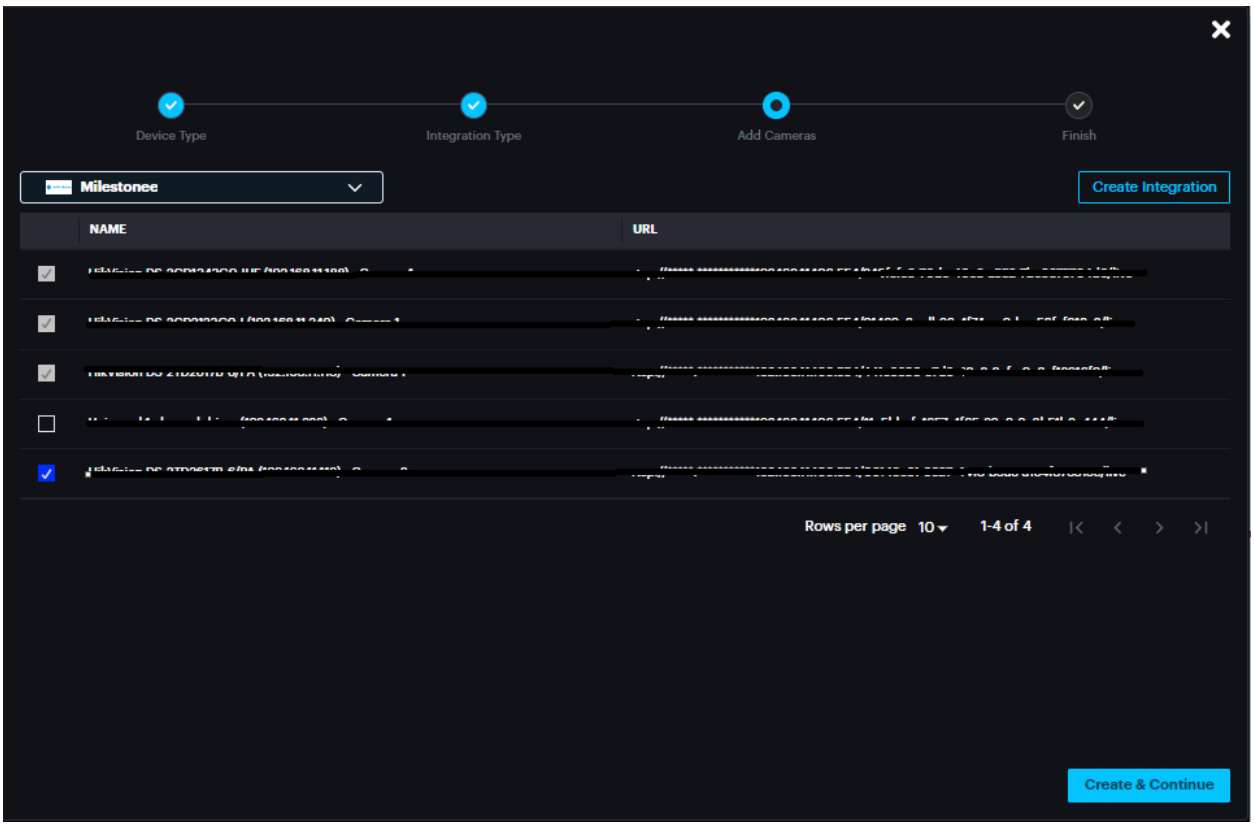
Select **Live Stream** and click **Next**



Select **Milestone** and click **Next**

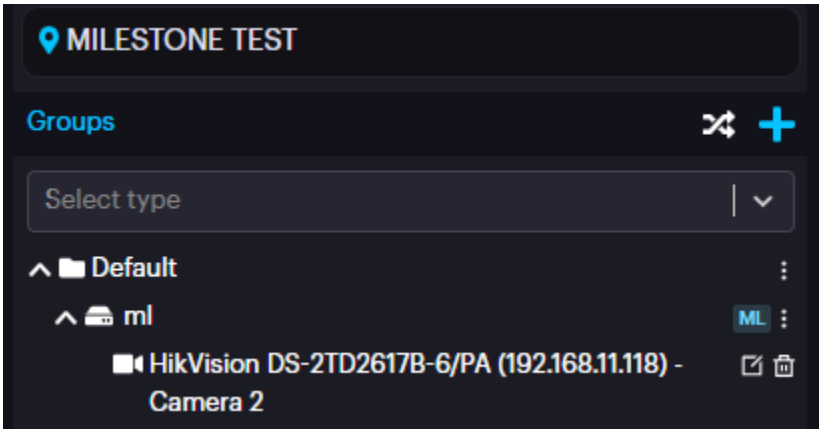


Select the integration from the drop down menu and the cameras on Milestone server will appear.



Enable the cameras that will be imported to Scylla on-premise server.
Click **Create & Continue**

The imported camera(s) will appear under the group



Now, go to AI modules -> select the module -> click on deployments and deploy the cameras.

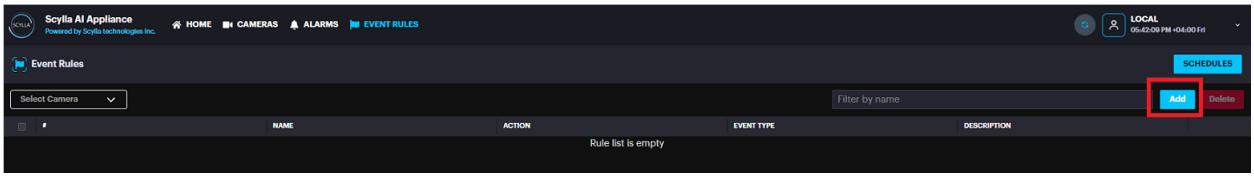
Once deployed, the alarms will appear on Scylla Dashboard and Milestone Smart Client (alarm endpoint and event rule should be already configured).

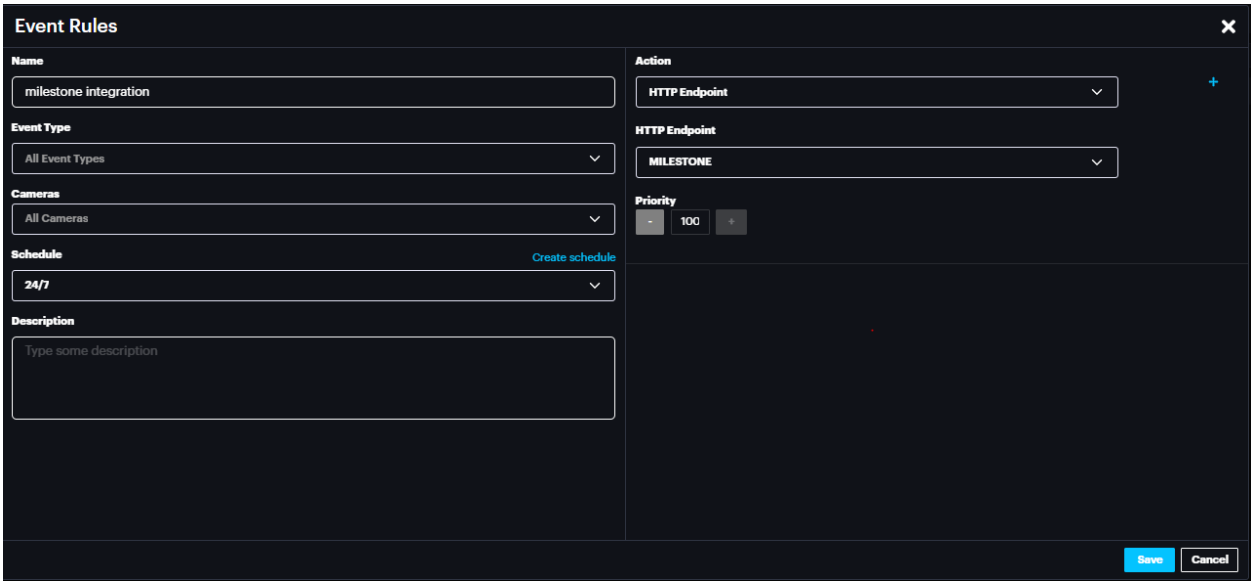
Configuring Event Rules

Event rules are created to link the events, schedules and actions.

Scylla Asteria

Go to **EVENT RULES** page click **Add**

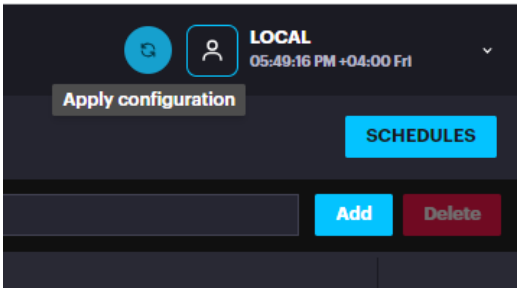




Name the event rule, select the event type (default is All event type), Select the camera(s) whose event will trigger the action (default is All cameras), select schedule (select the default 24/7 from drop down menu or create new schedule by clicking create schedule).
In the action select HTTP Endpoint and for HTTP Endpoint select MILESTONE.

Click **Save.**

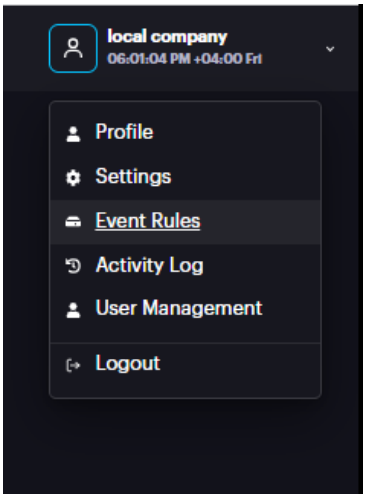
Now click Apply configuration on top.

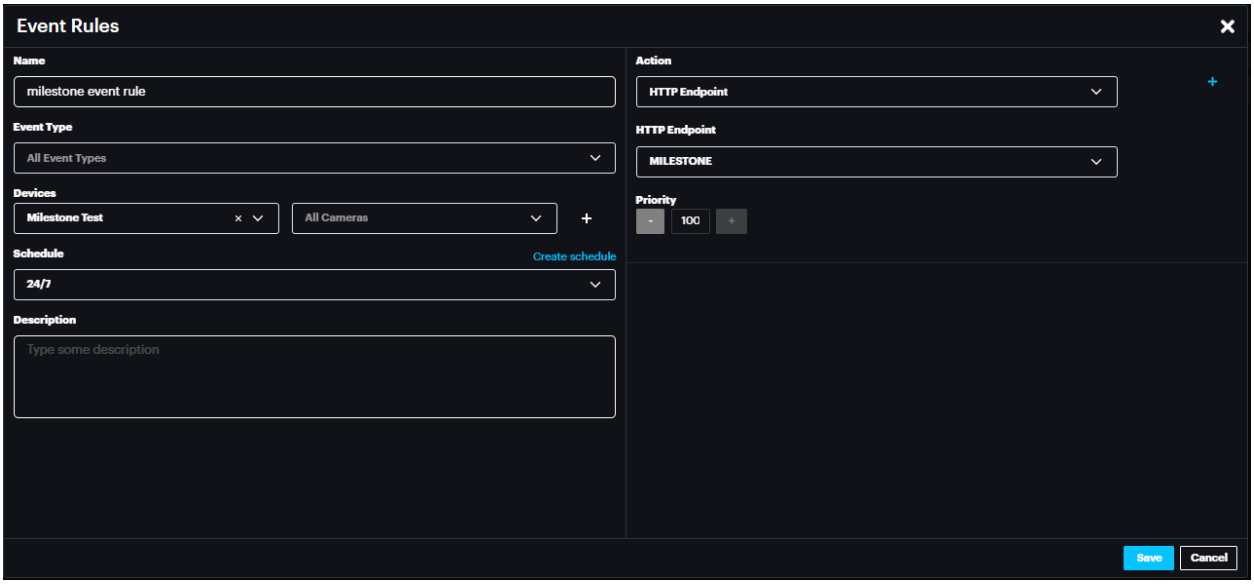


Now Scylla Asteria is ready to send the alarm to Milestone Xprotect Smart Client from camera(s) that are configured in the Event Rule.

Scylla On-Premise

Go to Account Menu -> Event rules





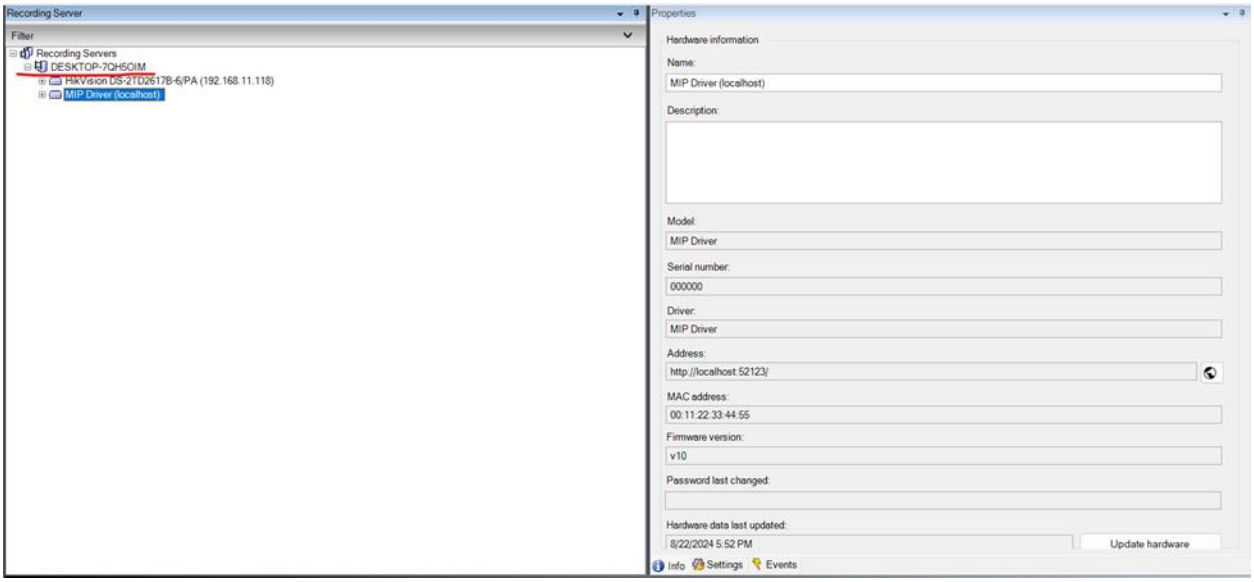
Name the event rule , select the event type(default is All event type) , Select the Site and camera(s) whose event will trigger the action (default is All Sites & All cameras) , select schedule (select the default 24/7 from drop down menu or create new schedule by clicking create schedule) .
In the action select HTTP Endpoint and for HTTP Endpoint select MILESTONE.
Click **Save.**

Now Scylla On-Premises is ready to send the alarm to Milestone Xprotect Smart Client from camera(s) that are configured in the Event Rule.

Milestone Xprotect Management Client Configuration

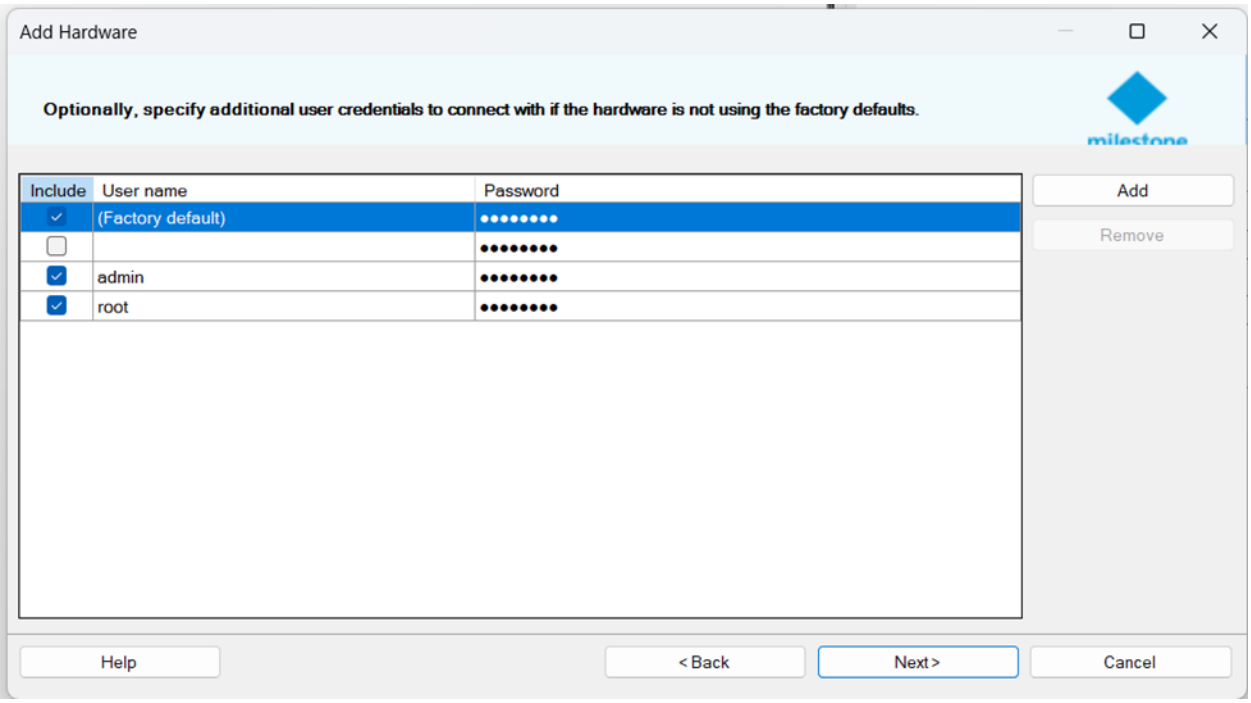
Metadata configuration

To add MIP(Metadata Provider) navigate to Recording Server → Select Server under which you want to add it.



Click add new Hardware and Select Manual.

You will be prompted to add a login and password on the next page. Add new one with username "**root**" and password "**password**"



Select Milestone.

In the next page, add the address of the Alarm receiver. If it's on the same server you can write "**localhost**" otherwise insert the correct IP address. Set Port to **52123** and select Hardware Model as **MIP Driver**.

Next, add the metadata to the cameras that will be used for integration.

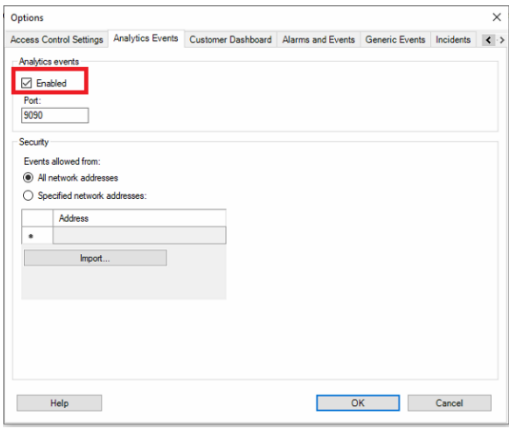
Cameras → Select Camera → Related Metadata.

Congratulations! The metadata step is finished.

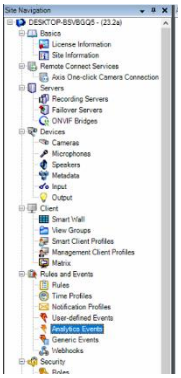
Analytics Event & Alarm Definition

Go to Tools - > Options -> Analytics Events

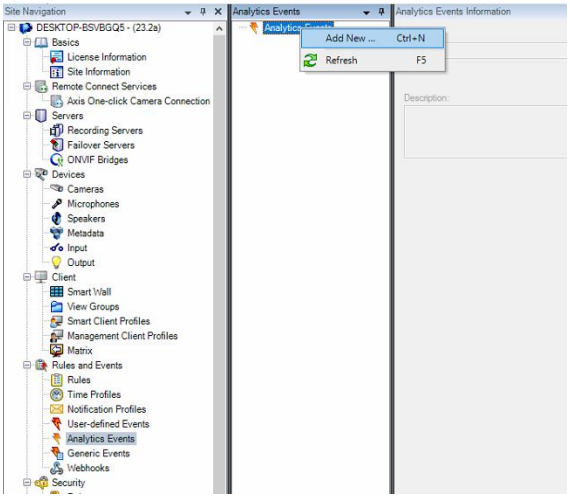
Enable the Analytics events



Navigate to **Analytics Events** page in the Site Navigation.



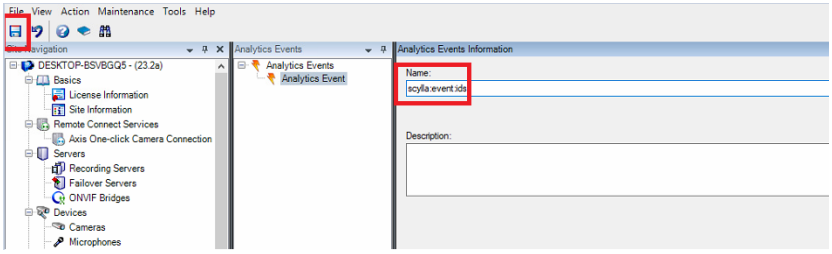
Right click on the Analytics Events -> Add New



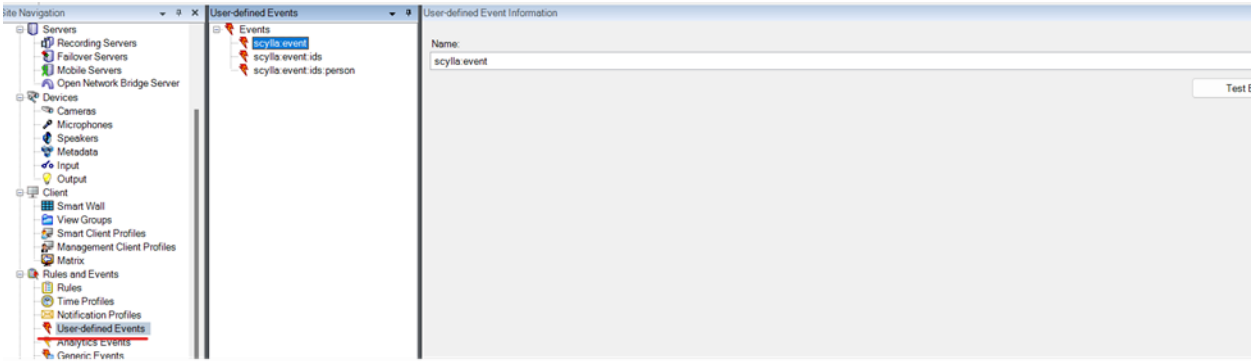
Name the analytics event in the following way (create analytics events for each Scylla AI module you want to receive alarm from):

- Intruder Detection System-> scylla:event:ids
- Gun Detection-> scylla:event:gun
- Suspicious Shopping Behavior-> scylla:event:tds
- Slip And Fall Detection System-> scylla:event:snfds
- Smoke And Fire Detection System-> scylla:event:sfds
- Fight Detection System-> scylla:event:fds
- Industrial Temperature Monitoring-> scylla:event:itm
- Face Recognition System-> scylla:event:frs
- Robbery Mask Detection-> scylla:event:rmd
- Traffic Flow Analysis-> scylla:event:tfa

After creating the needed Analytics events, click save button.

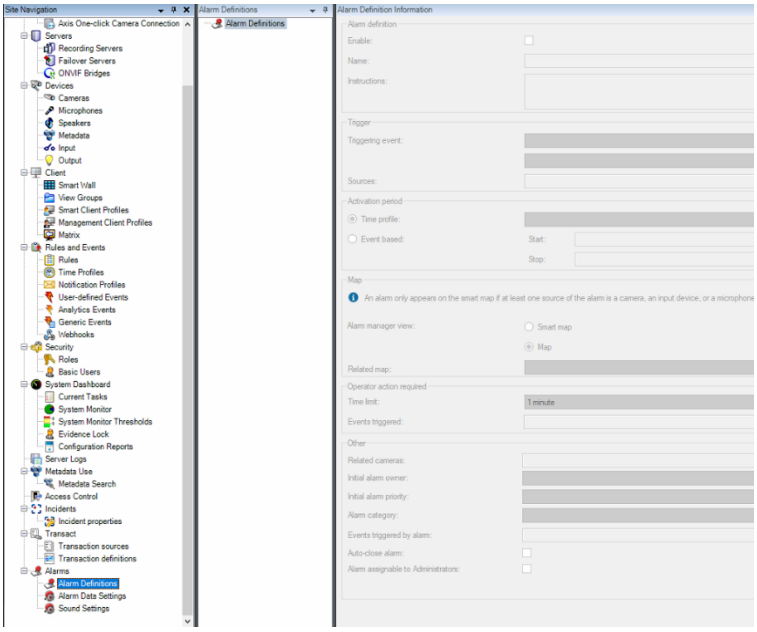


Now need to create User-defined Event

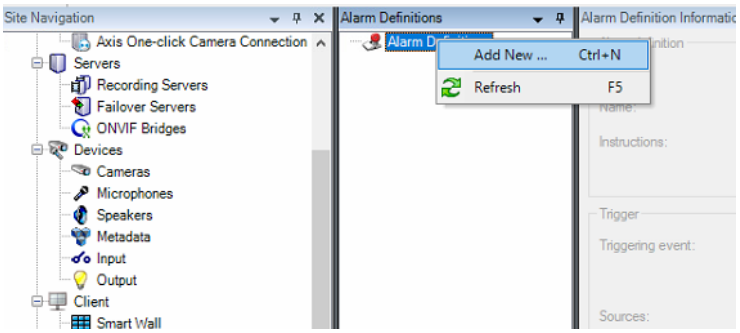


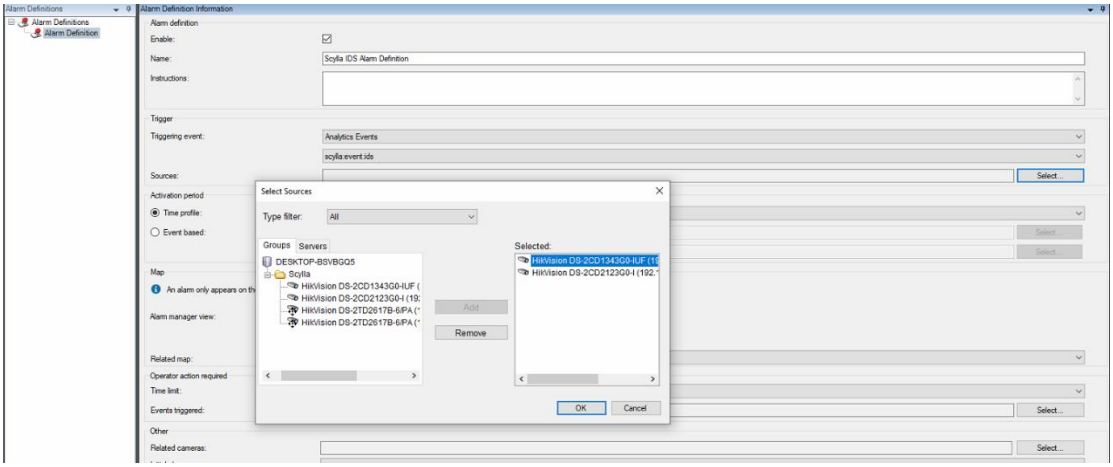
Name can be anything .

Now navigate to **Alarm Definitions** page in the site navigation list.



Right click on the Alarm Definitions->Add New



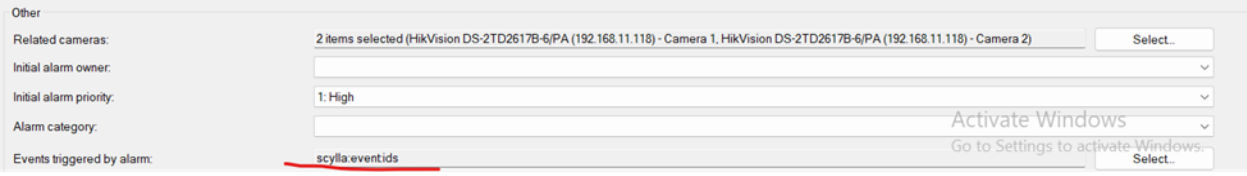


Name: Alarm Definition name (e.g Scylla IDS Alarm Definition)
Triggering event: Analytics Events & **choose the appropriate analytics event** created in the previous step from the list (for IDS its scylla:event:ids).

Sources: Click Select and Add the cameras that are related to this Analytics event to the right window (e.g cameras that are deployed with IDS module). Click OK.

If needed choose a time profile (to send alarms to Smart client only during that time)
.
Choose the initial alarm owner which is the default user responsible for the alarm.

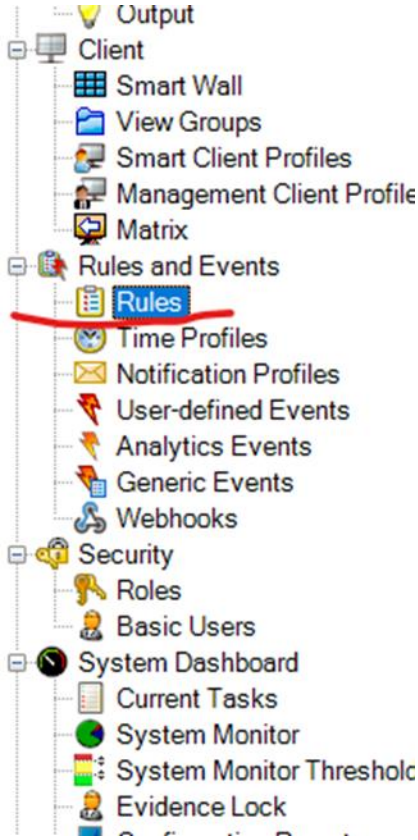
In the lower part, in the "Events triggered by alarm" insert the user-defined event that was created before.



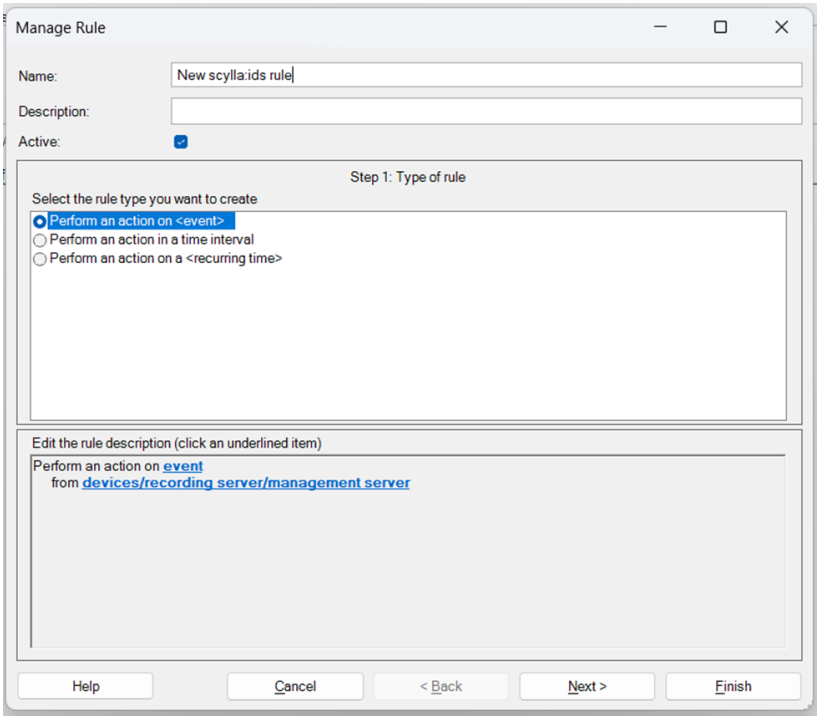
Click **the Save** button.

Rules

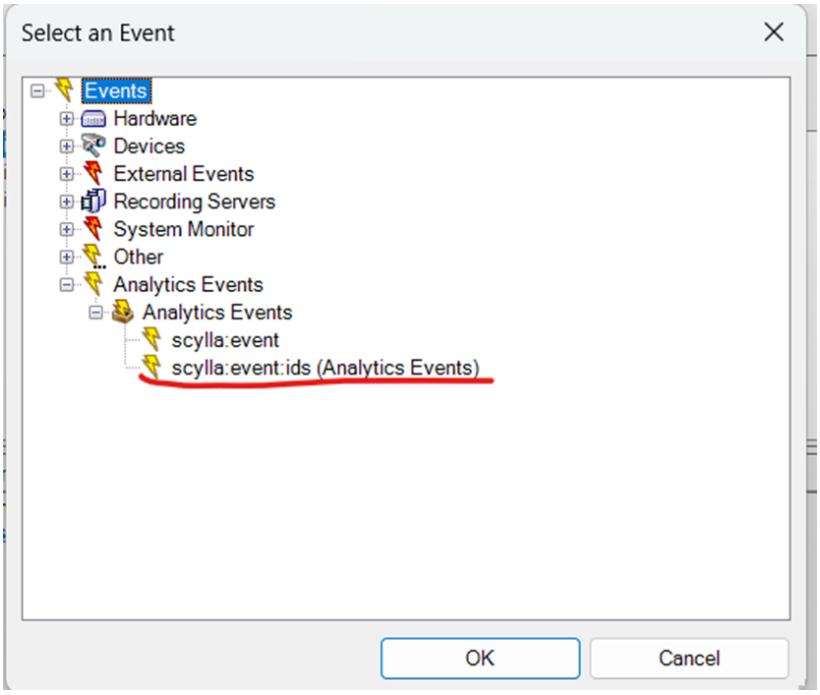
Now it's time to create a Rule.



Rules to trigger recording on the video.



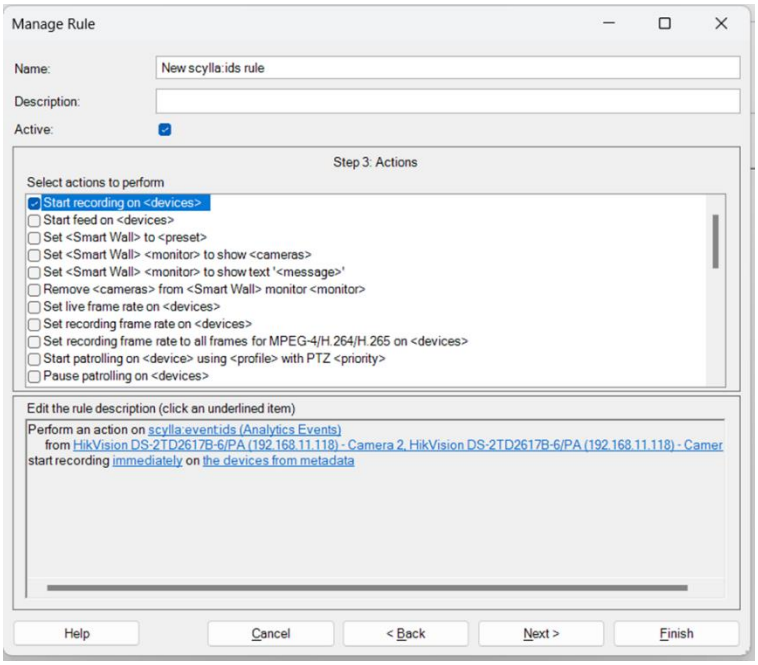
Select "**perform an action on <event>**" and then click on blue event and select newly created analytics event



then select cameras that are used in the integration.

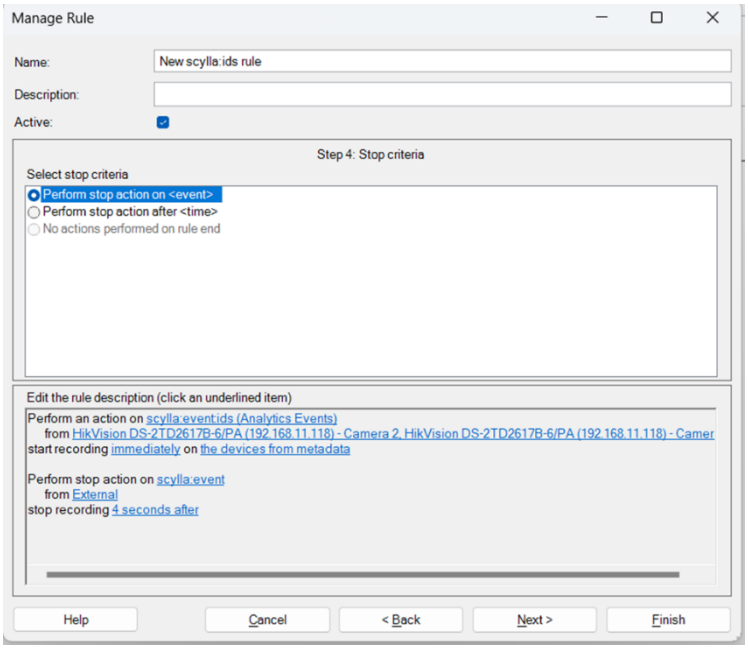
Click next.

Select **start recording on <device>** and start recording **immediately** on the **devices from metadata**

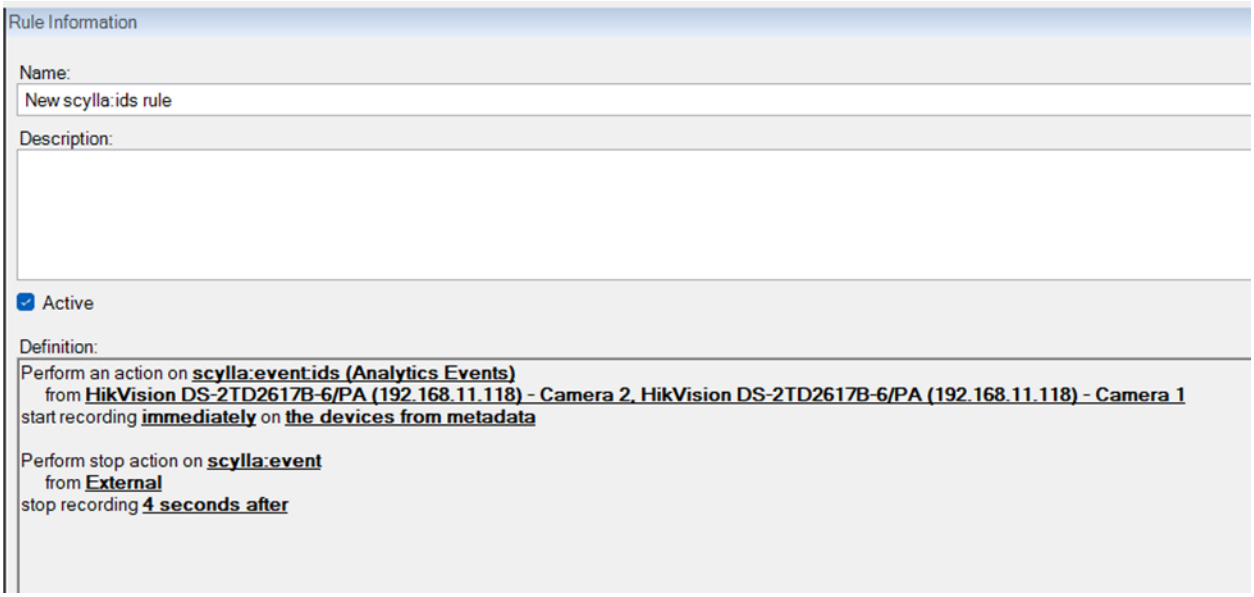


In next page need to specify when to finish recording.

Select perform action on the User-Defined Event that was also being triggered by an alarm. and set the recording length as much as you want. (Preferably 4 secs).

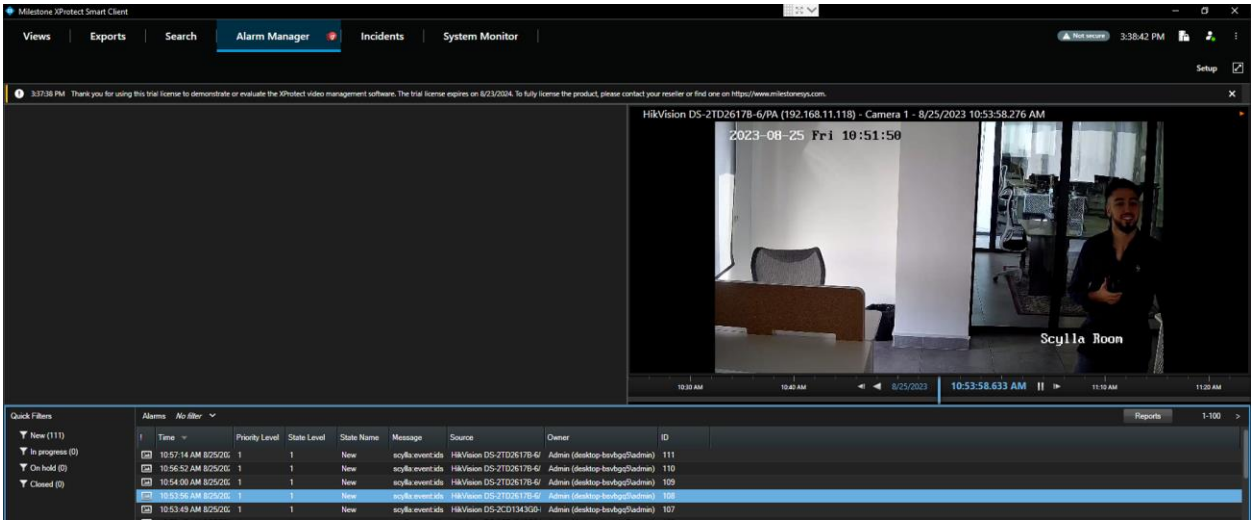


In the end it should look like this.

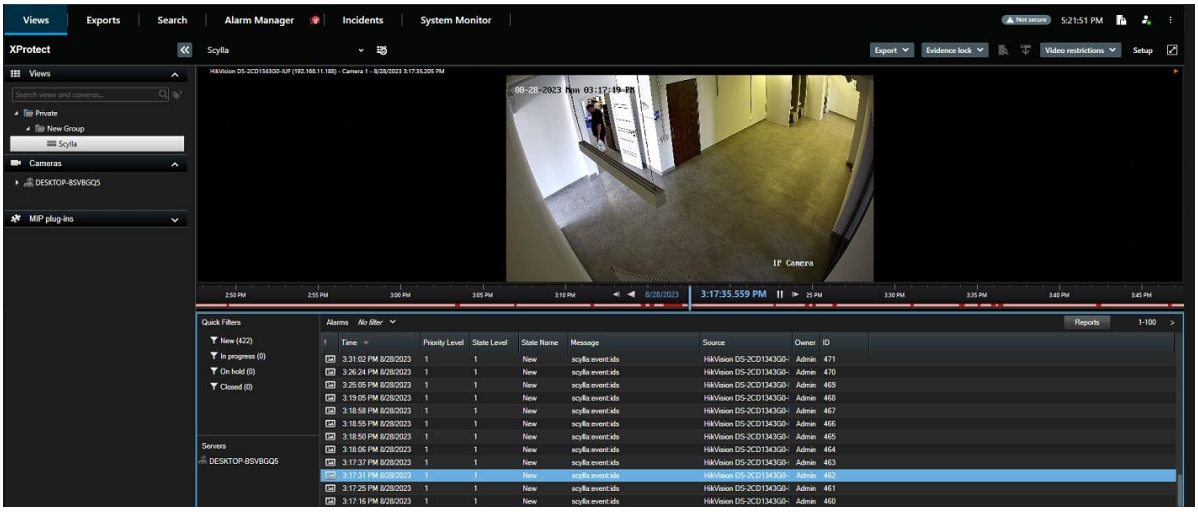


Milestone Smart Client

Alarms from Scylla system will appear in the Xprotect Smart Client Alarm manager.



It is possible to create separate views for Scylla integration in the Views page and add to them the alarm list & alarm preview to organize alarms.
Click Setup -> create new view -> select the layout template -> name the view -> expand Alarms in the System overview -> drag and drop alarm list & alarm preview.



We value and appreciate your feedback. If you have any questions or suggestions, please contact support@scylla.ai or submit a request to the Scylla Help Center at https://support.scylla.ai/portal/en/home.