iSentry – iSentryMMS Integration

Manual

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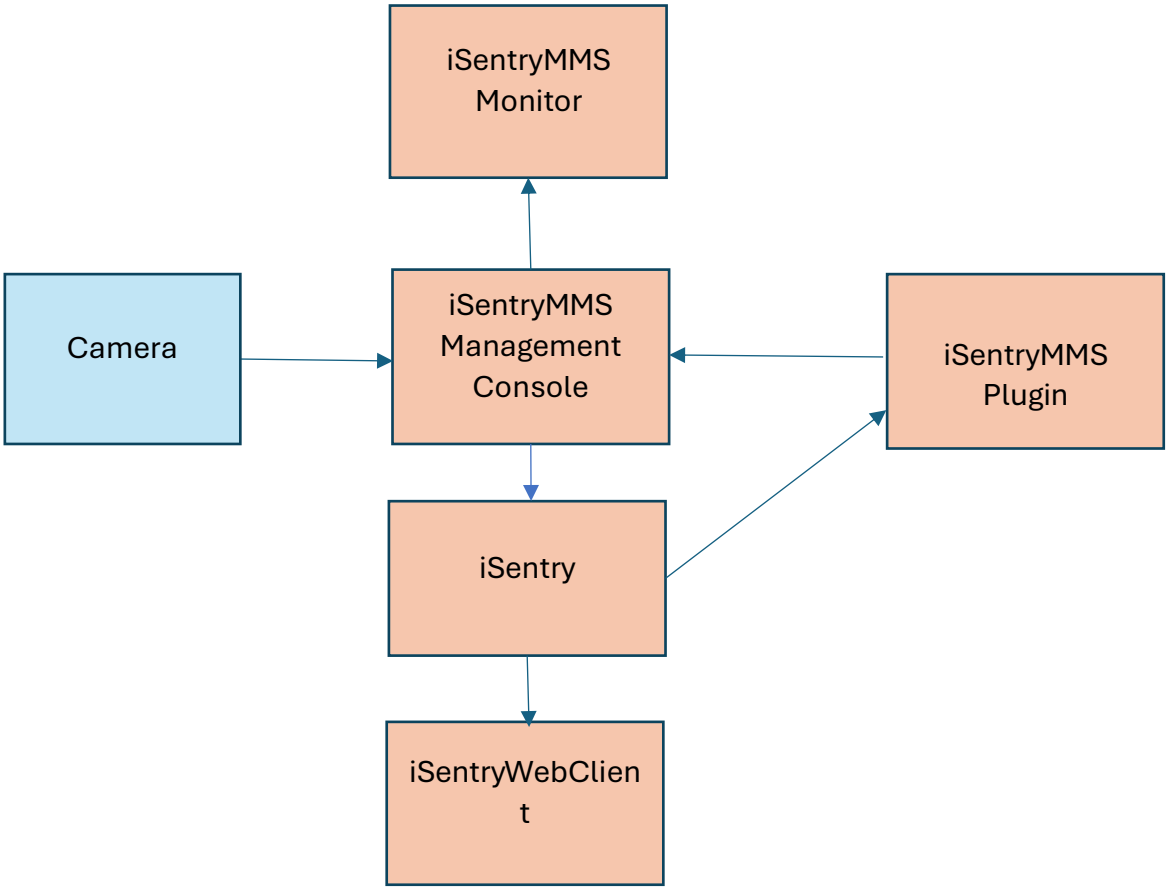
1. Introduction

This documentation provides an overview of the system architecture and configuration process, as well as instructions for installing the iSentryMMS plugin on a freshly installed Windows machine.

2. Architecture Diagram

The iSentryMMS Management Console has the ability to (re)stream video from cameras to the iSentry platform, providing a complete surveillance solution. The iSentryMMS plugin works by receiving alerts from the iSentry server via the iSentry Alert Manager or directly through the HTTP API. These alerts are then forwarded to the iSentryMMS Management Console, which is an essential component of the system. Additionally, the iSentryMMS Management Console gathers data, and the iSentryMMS Monitor is able to display the collected information.

This bi-directional communication ensures that alerts are sent promptly, and video feeds are always available for monitoring while not requiring extra bandwidth to the camera using another stream. The integration between the iSentry FireFly and iSentryMMS enhances the functionality of both systems, providing a more efficient and effective security solution.


iSentryMMS Monitor
Camera
iSentryMMS Management Console
iSentryMMS Plugin
iSentry
iSentryWebClien t

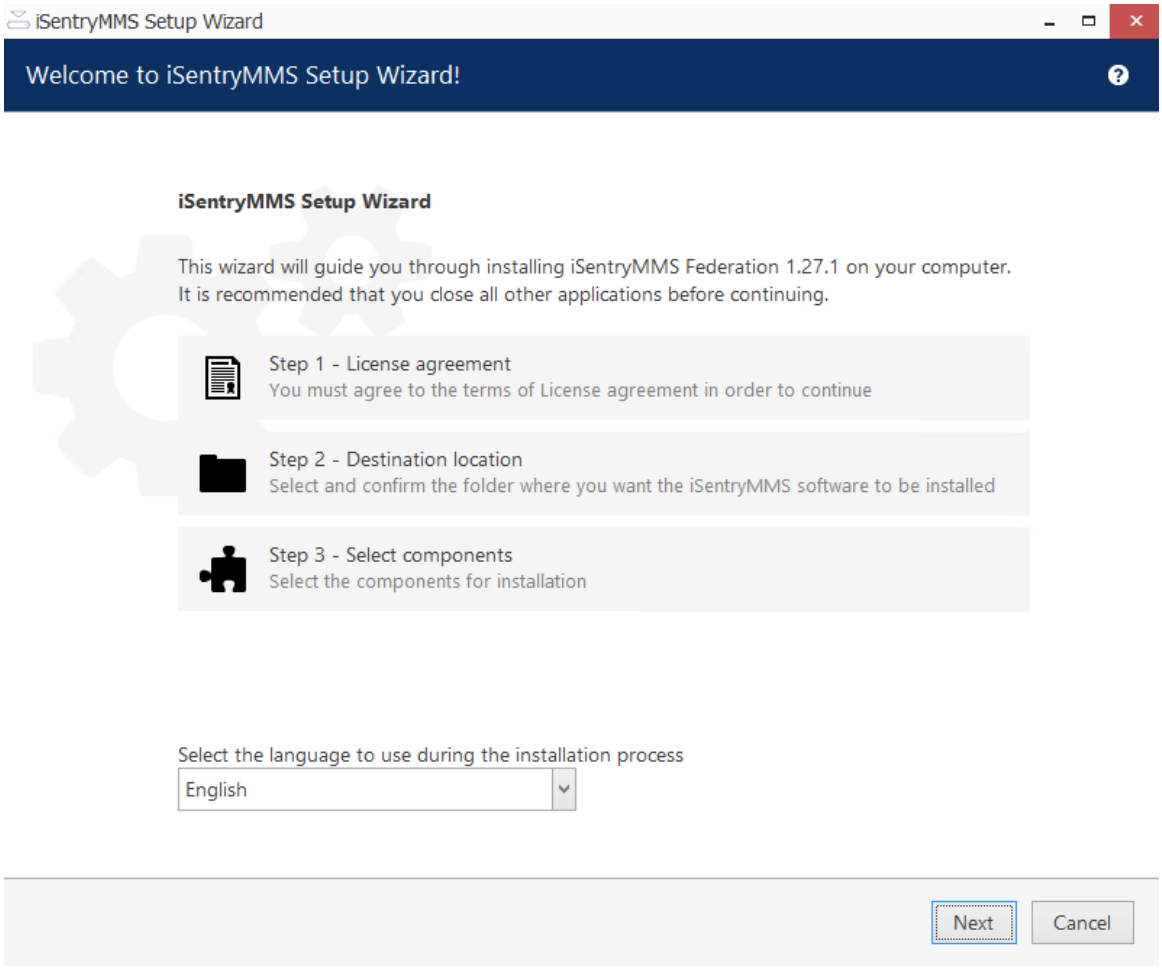
3. Prerequisites

- Windows 10 or later, Windows Server 2019 or later;
- Installed iSentry Server;
- Installed iSentry Web Client;
- iSentryMMS 1.27.1.41 or later.

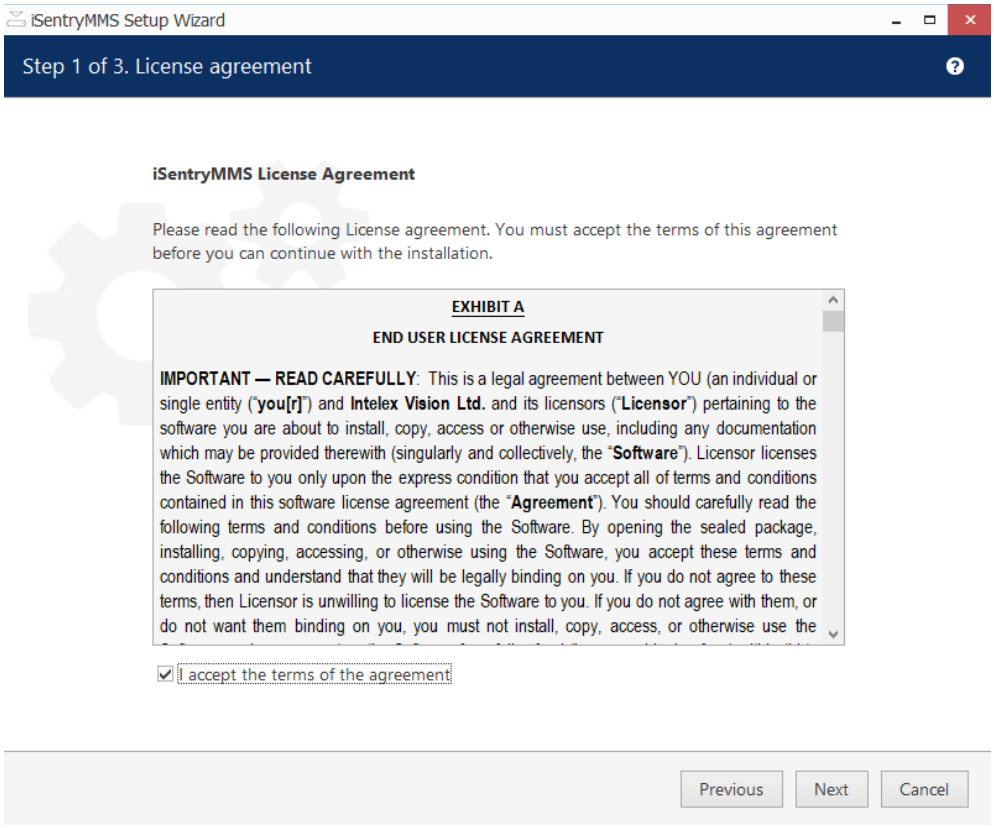
4. Configuration and Installation

4.1. Installation and Configuration of iSentryMMS Federation

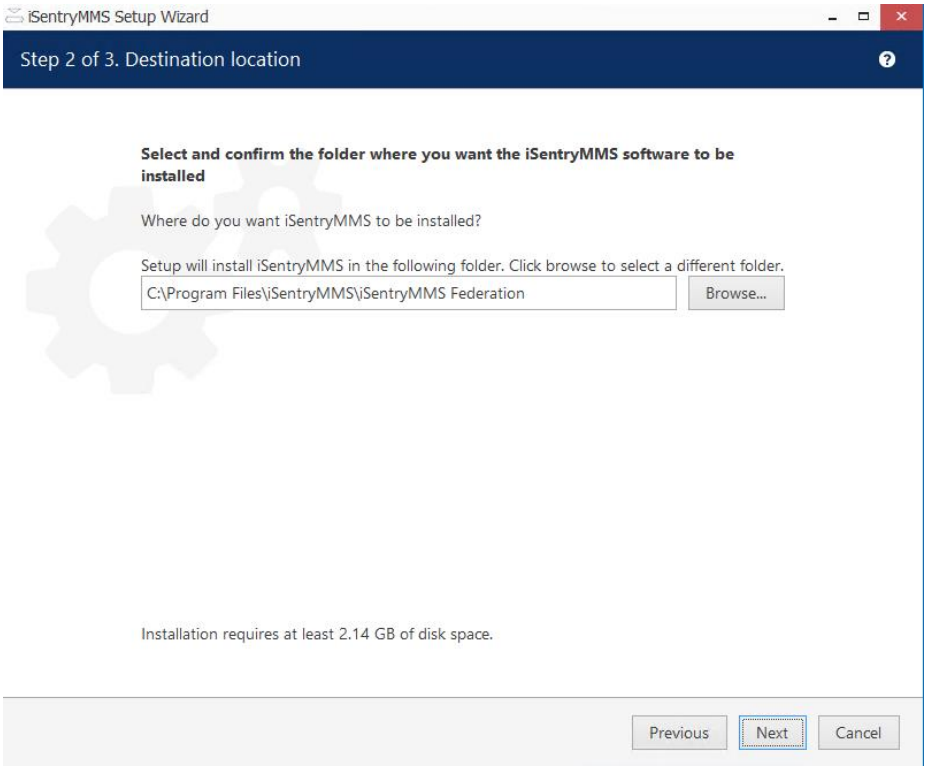
To install iSentry MMS Federation, double-click the installation file and follow the on-screen instructions.



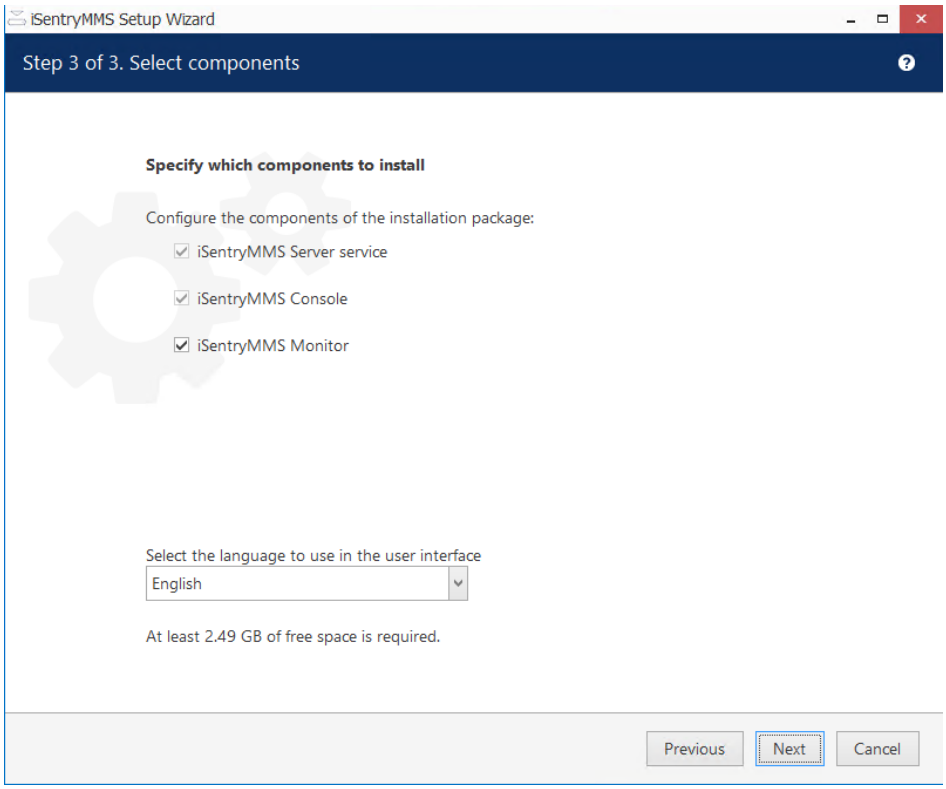
Read the license and click "Next".



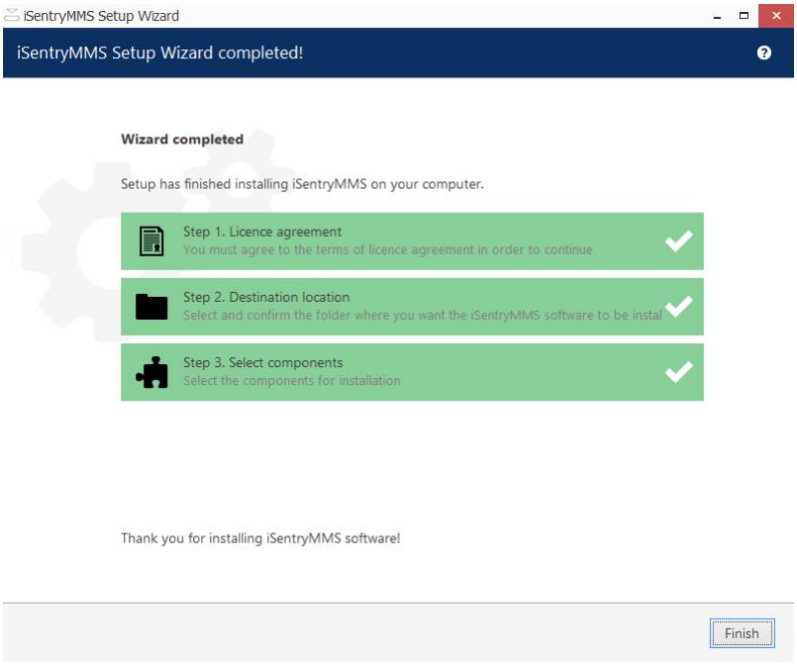
Next, you need to select a folder.



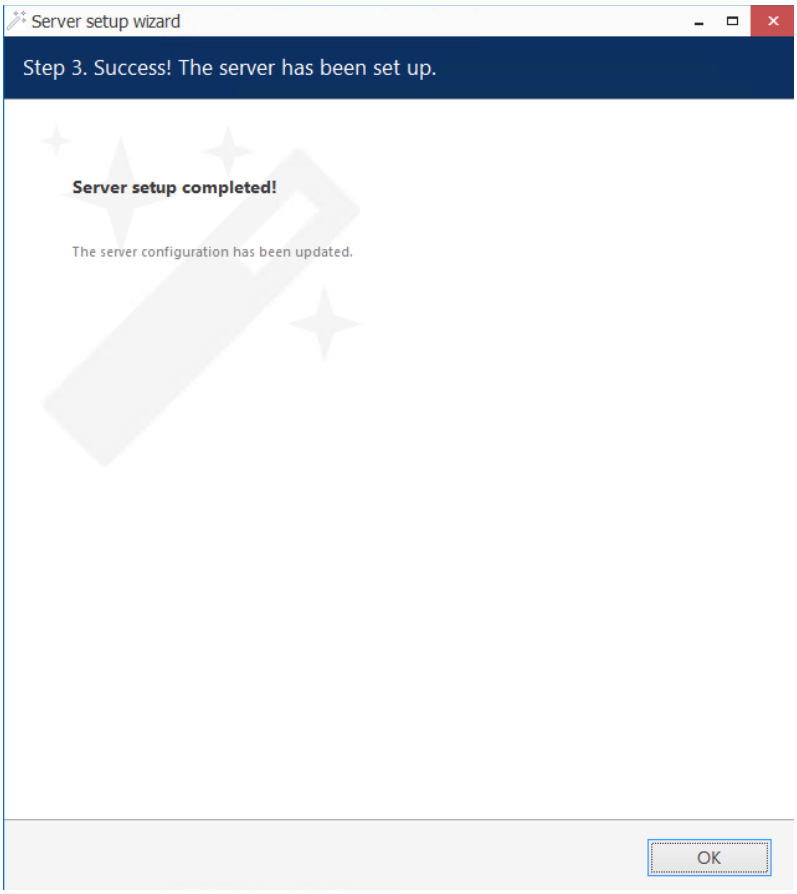
Next step, you need to select all the components.



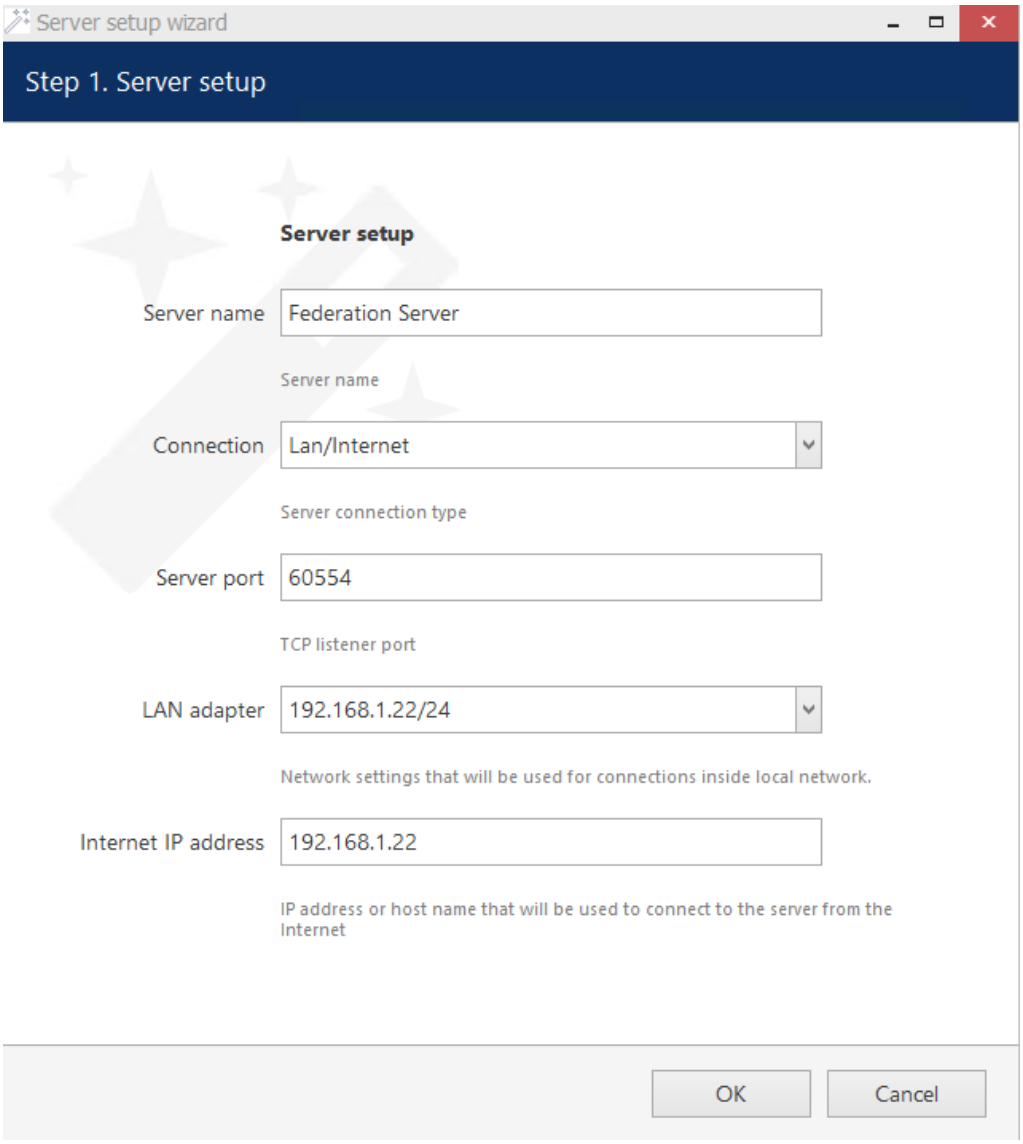
After finishing the installation, click on the "Finish" button.



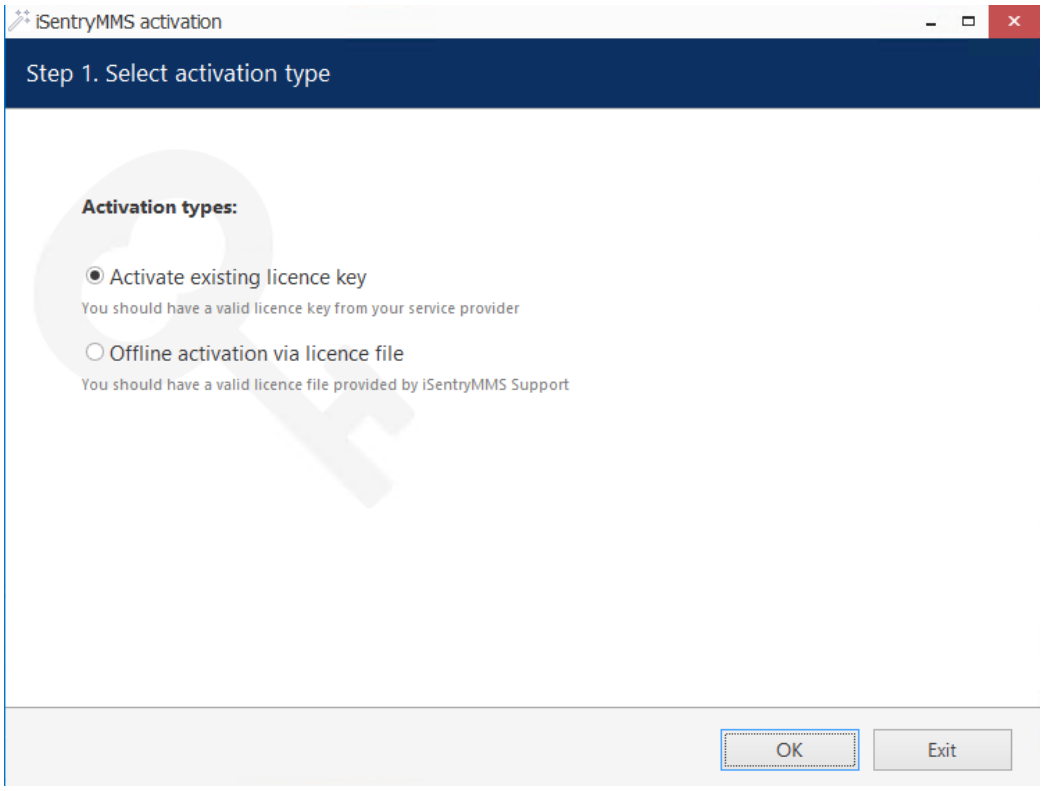
And click on the "OK" button to exit the wizard.



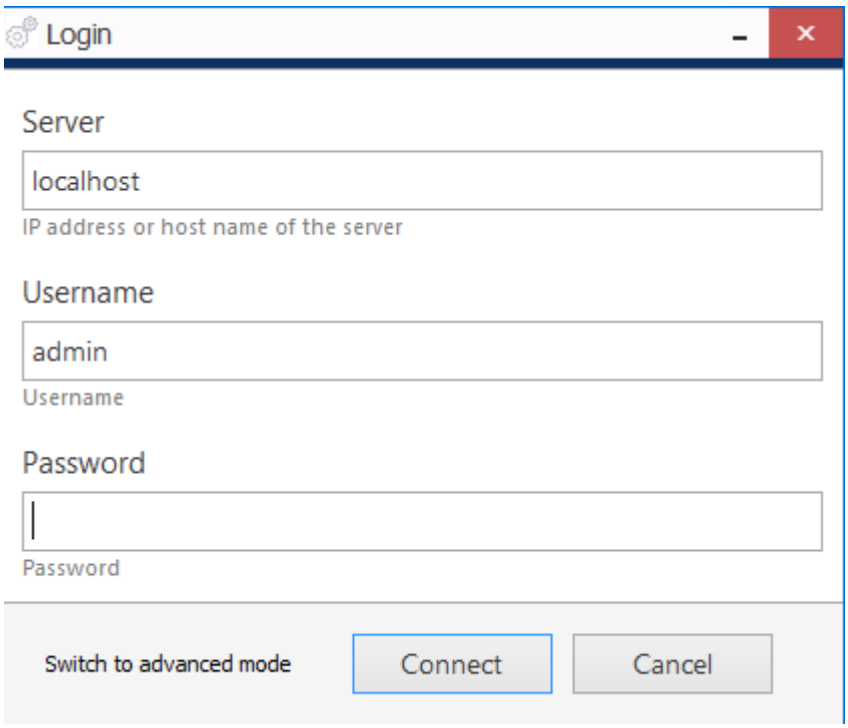
After that, the setup wizard will appear to configure iSentryMMS. You need to type in the server IP address. This IP address will be used by iSentry MMS to listen on the network port.



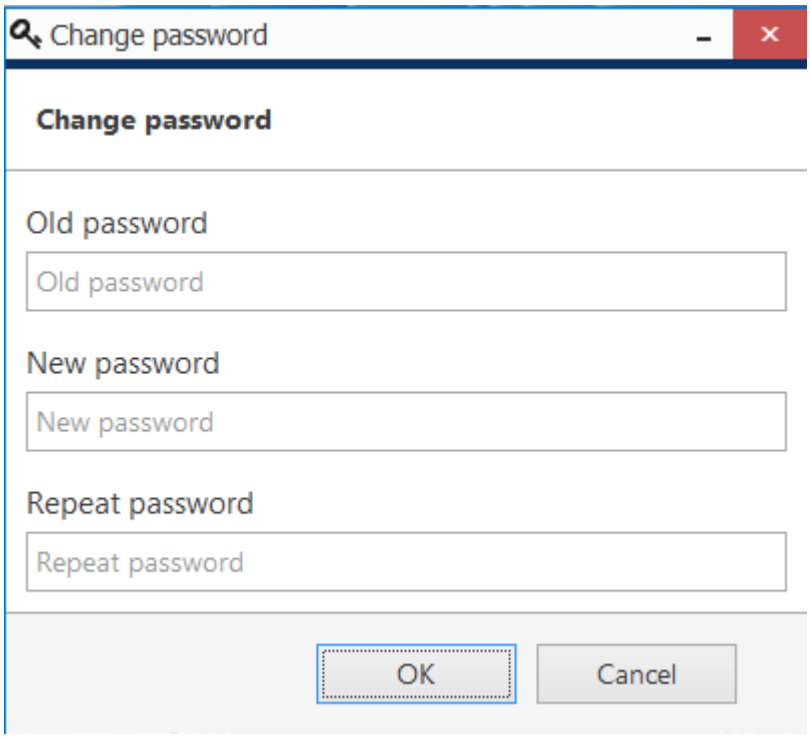
And you need to activate the iSentryMMS server using one of the offered methods.



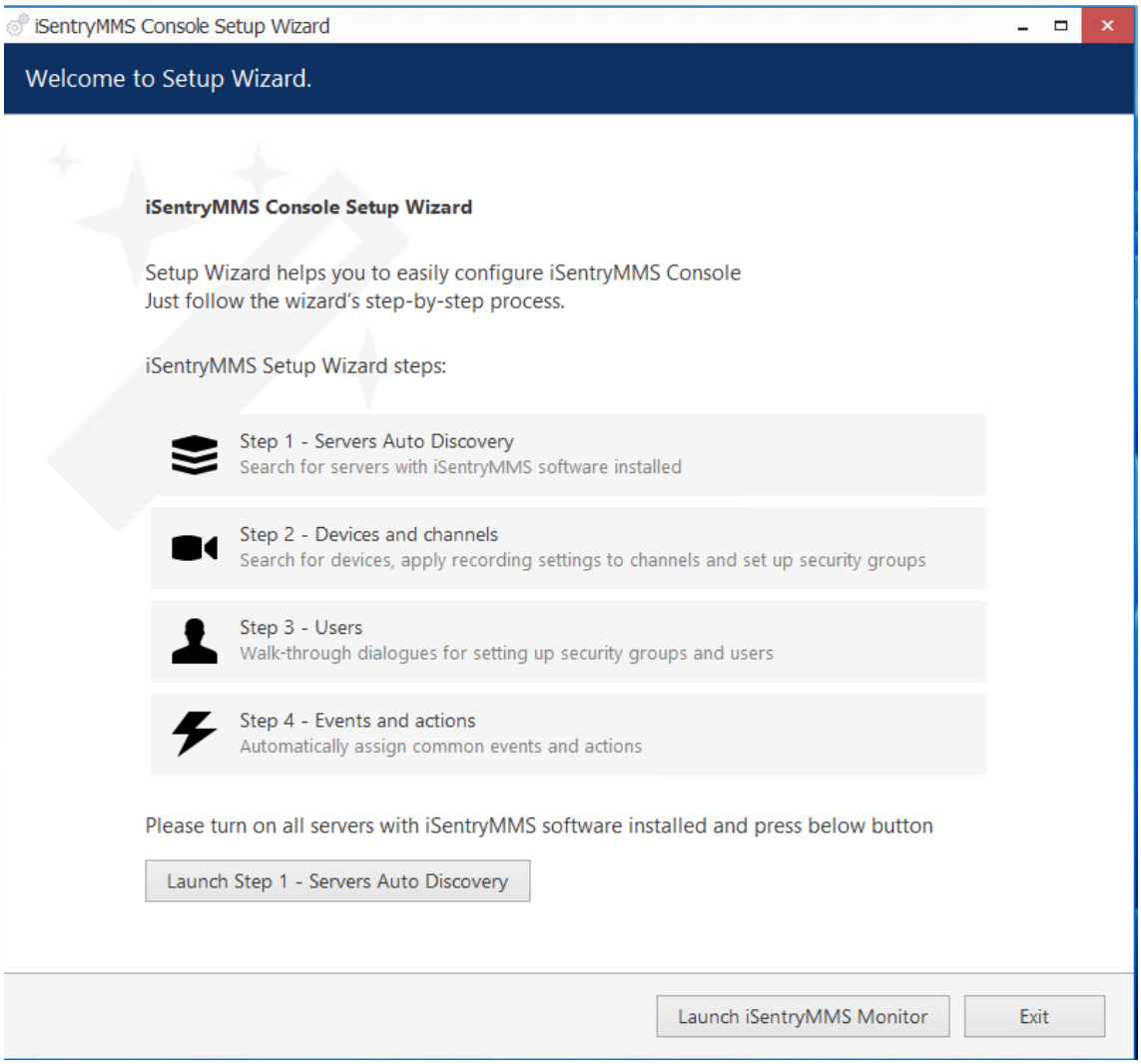
After activating, you will run the iSentryMMS Console. You need to type the username "admin" and click on the "Connect" button.



The system will offer to set up a password. You only need to fill in the "New password" and "Repeat password" fields and click on the “OK” button.

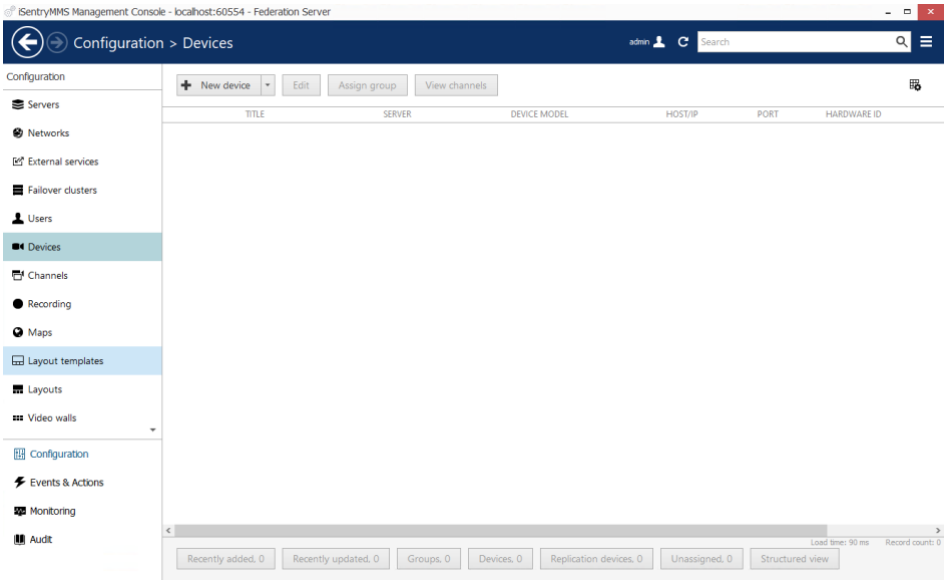


After that, the system will show the master to set up the system. You need to skip this step by clicking on the “Exit” button.

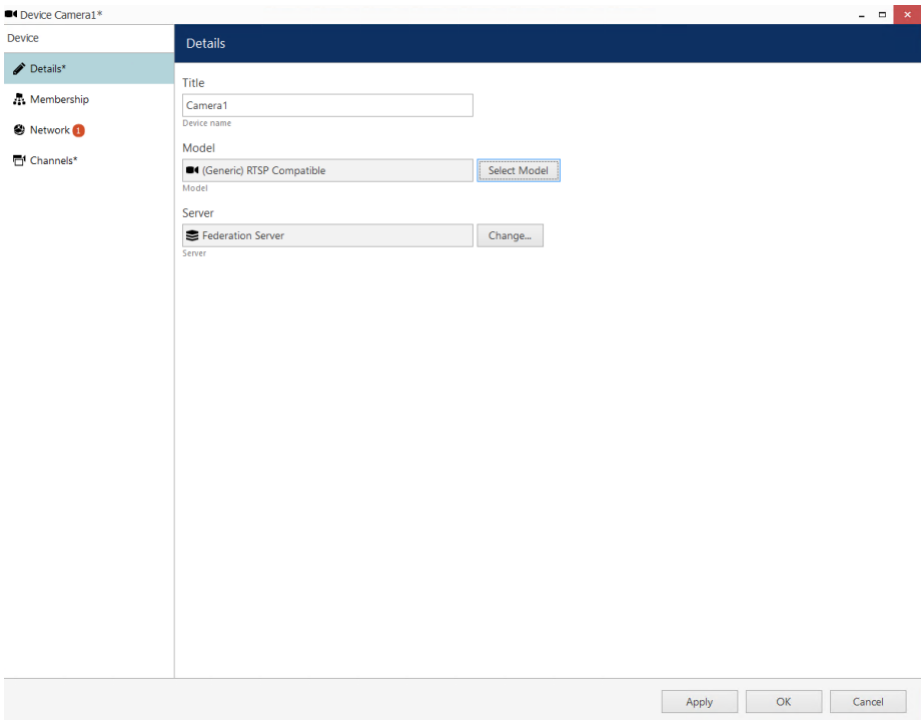


4.1.1. Adding a camera to the iSentryMMS Management Console

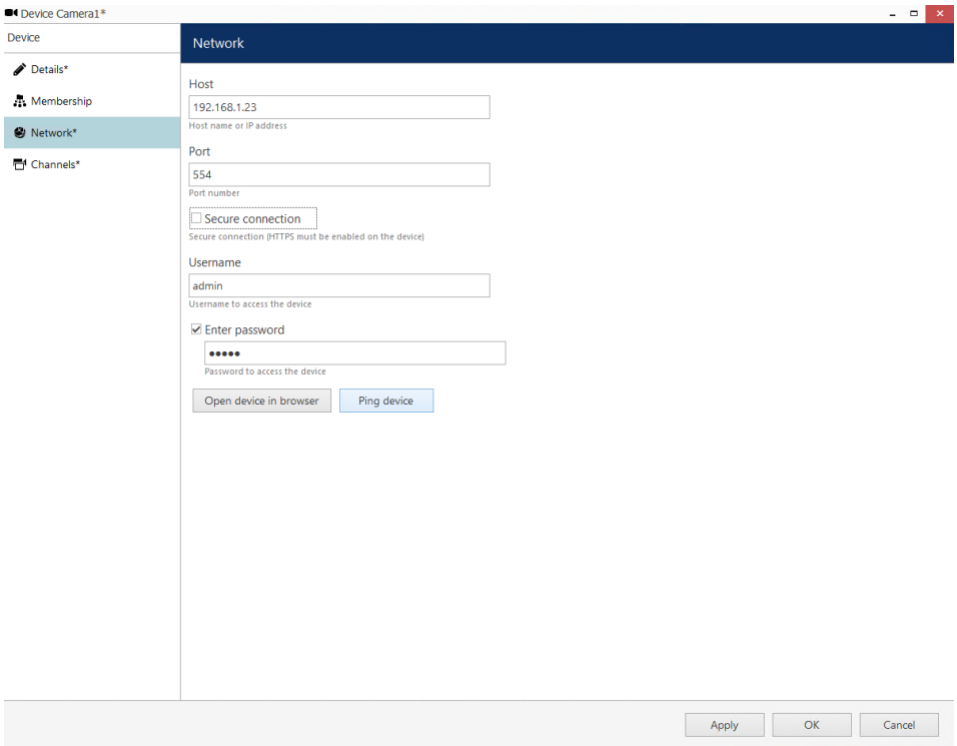
Eventually, you can see the configuration console of the iSentryMMS Management Console. The next step is to select "Devices" in the left menu and create a new device.



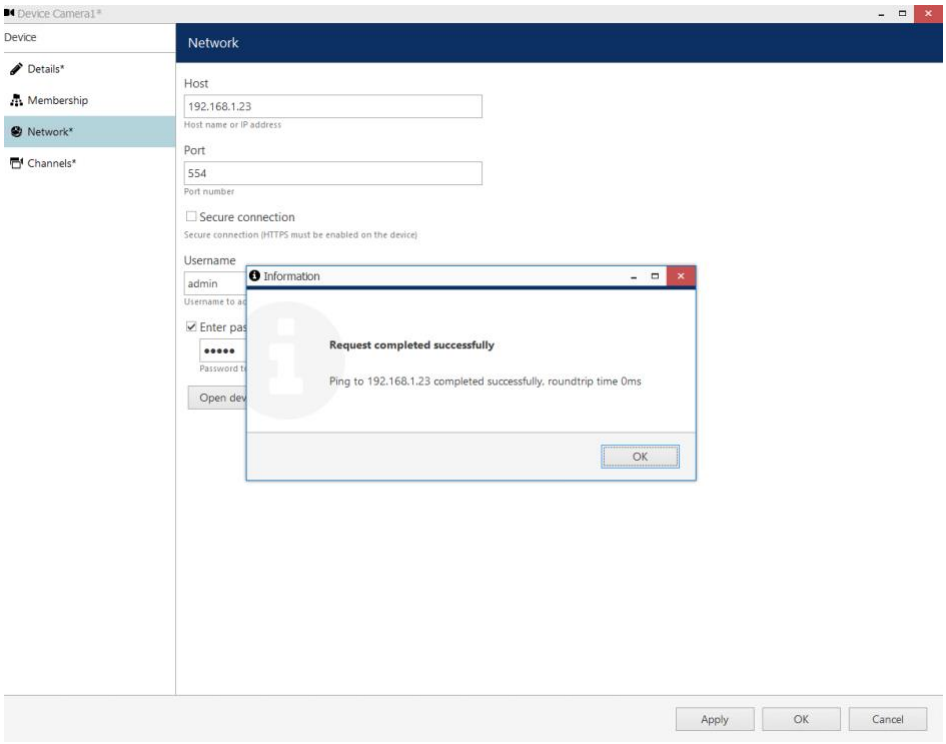
Type the camera name and select the camera model. Click on the "Select model" button and choose the "Rtsp compatible" or “Onvif Compatible” model, depending on your camera capabilities. Onvif will allow you to modify the stream settings like Bitrate, Resoution, Frames per second, etc on the primary and sub-streams.



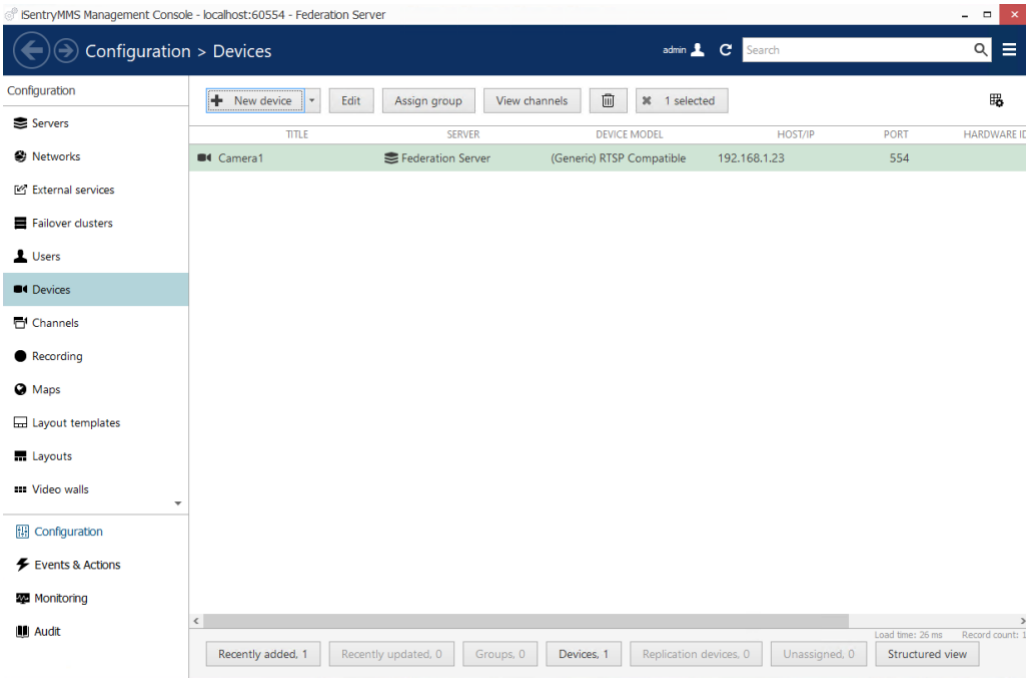
After that, you need to click on the network tab, fill in the camera's IP address, fill out the available RTSP port (default 554) if applicable, and fill in the username and password for the camera.



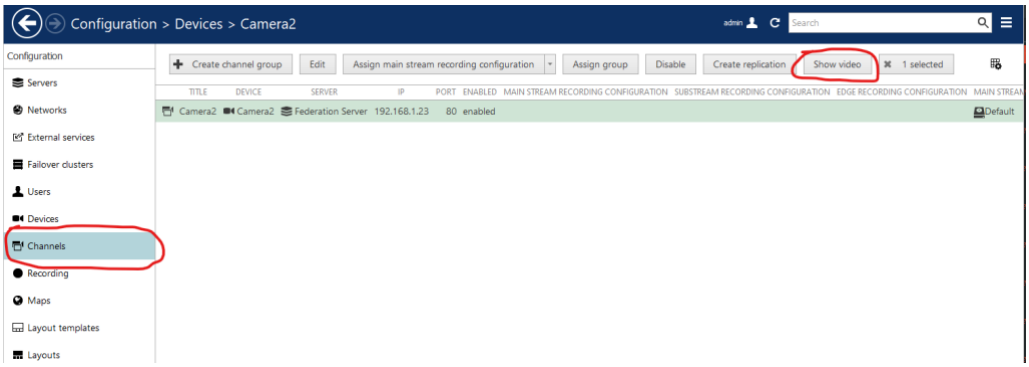
You can check the camera availability by clicking on the "Ping device" button.



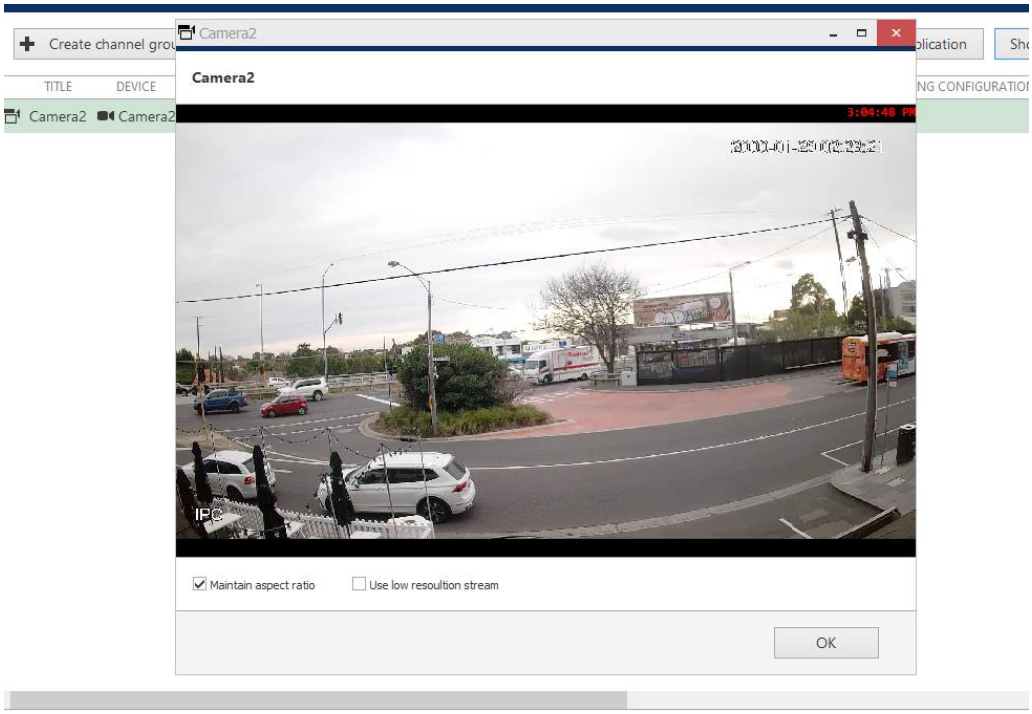
And after that, you can close the modal window and click on the "OK" button to finish setting up the camera. The new camera will be added to the list of cameras.



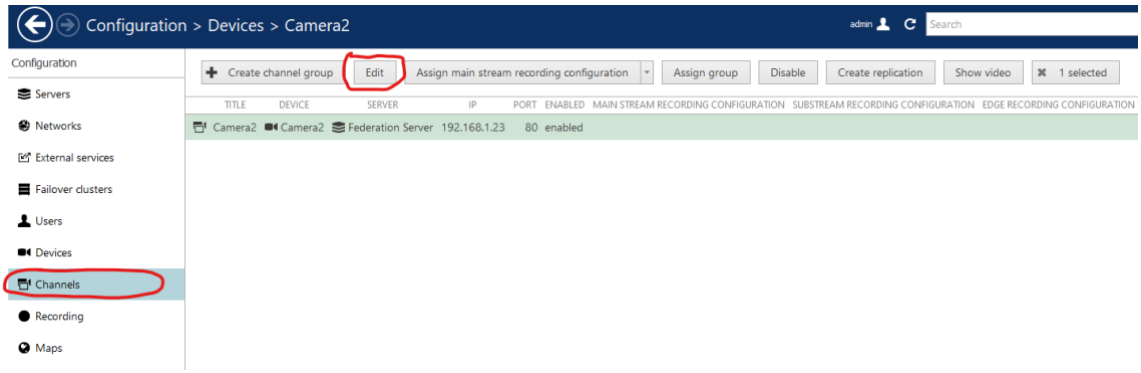
After adding a camera, you can check the status of the camera by selecting “Channels” and clicking on “Show video.”



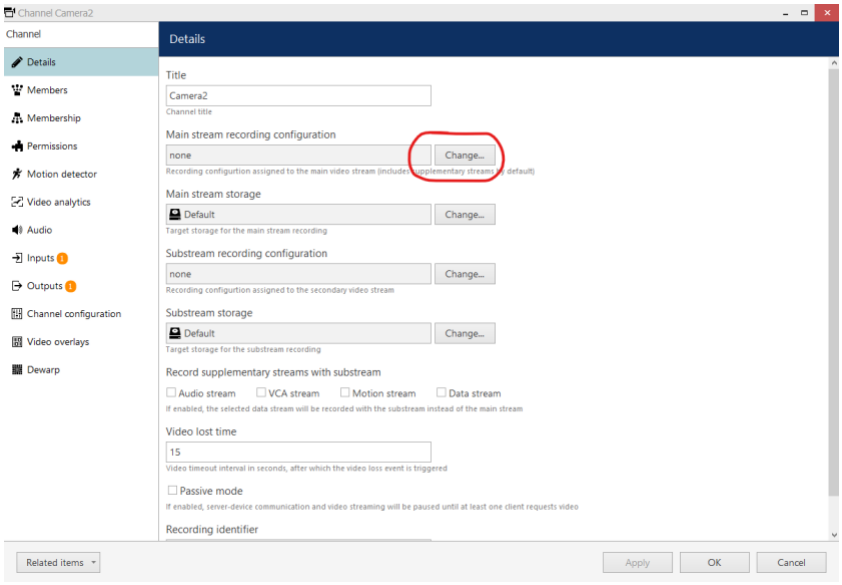
If the configuration is correct, you will see a video from the camera.



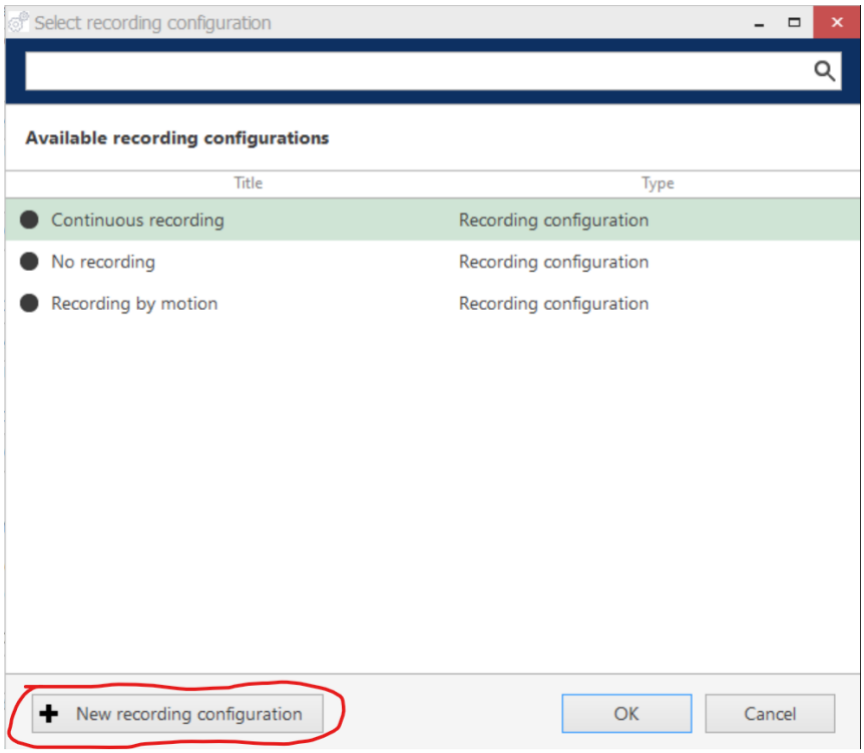
After that, you will need to set up recording settings. These settings are needed to see archived videos with video analytics events. To do this, select "Channels" in the left menu, then select Cameras and click on "Edit".



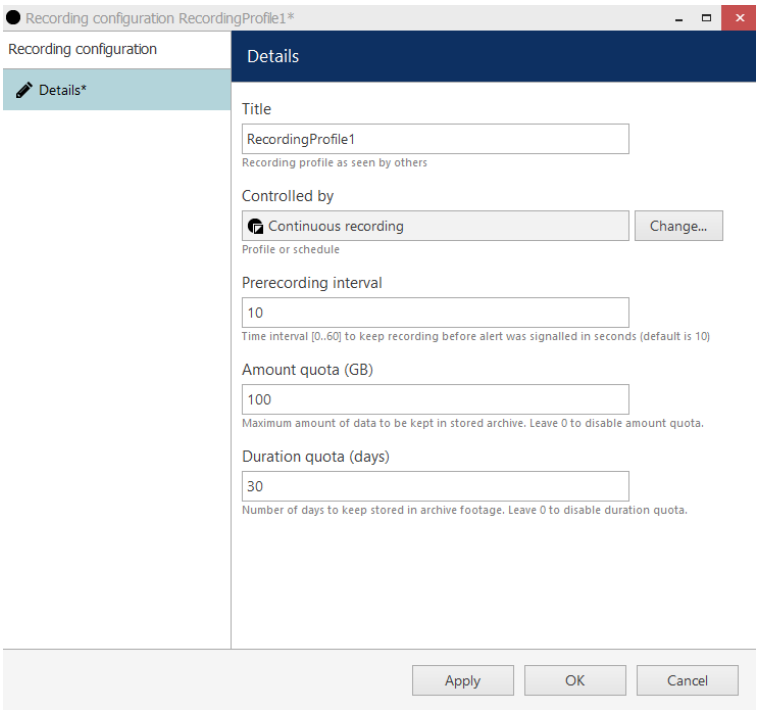
After that, to change the recording configuration, click on the “Change” button.



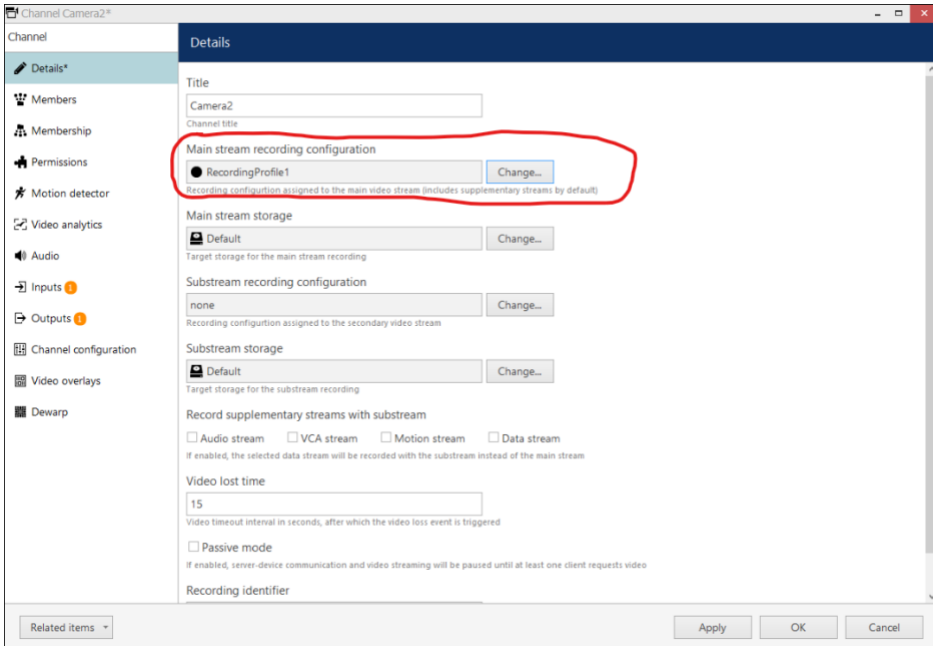
Add a new recording configuration. In the future, you can select this configuration for your cameras.



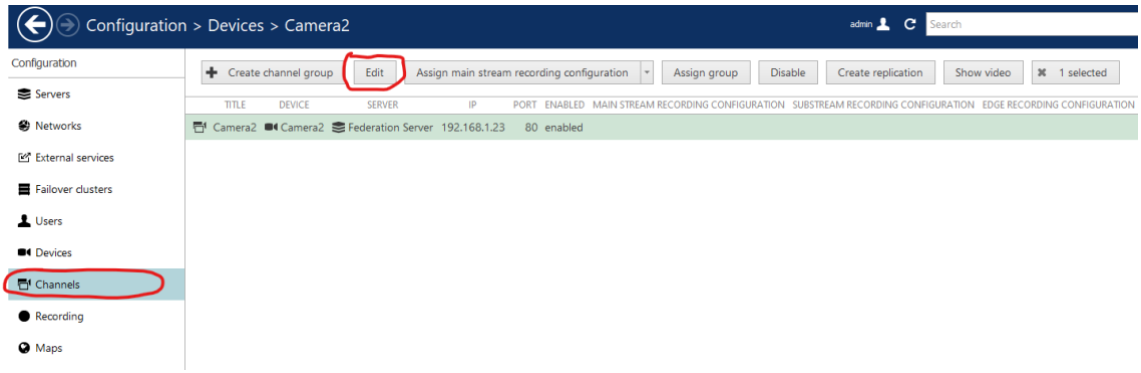
Type the name of your configuration, select the maximum size of your archive and indicate how long you would like your archive to be saved for. Then, after saving the configuration, click on the "OK" button.



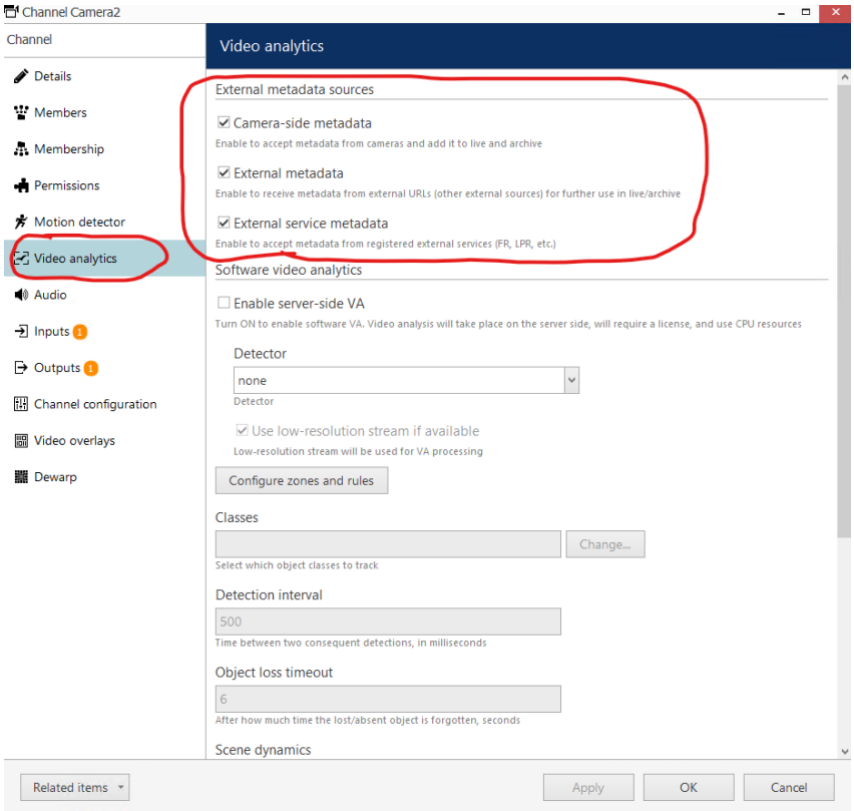
After that, choose your configuration and click "OK".



For each camera, you need to allow the saving of video analytics data. To do this, select "Channels" in the left menu, then select Cameras and click on "Edit".



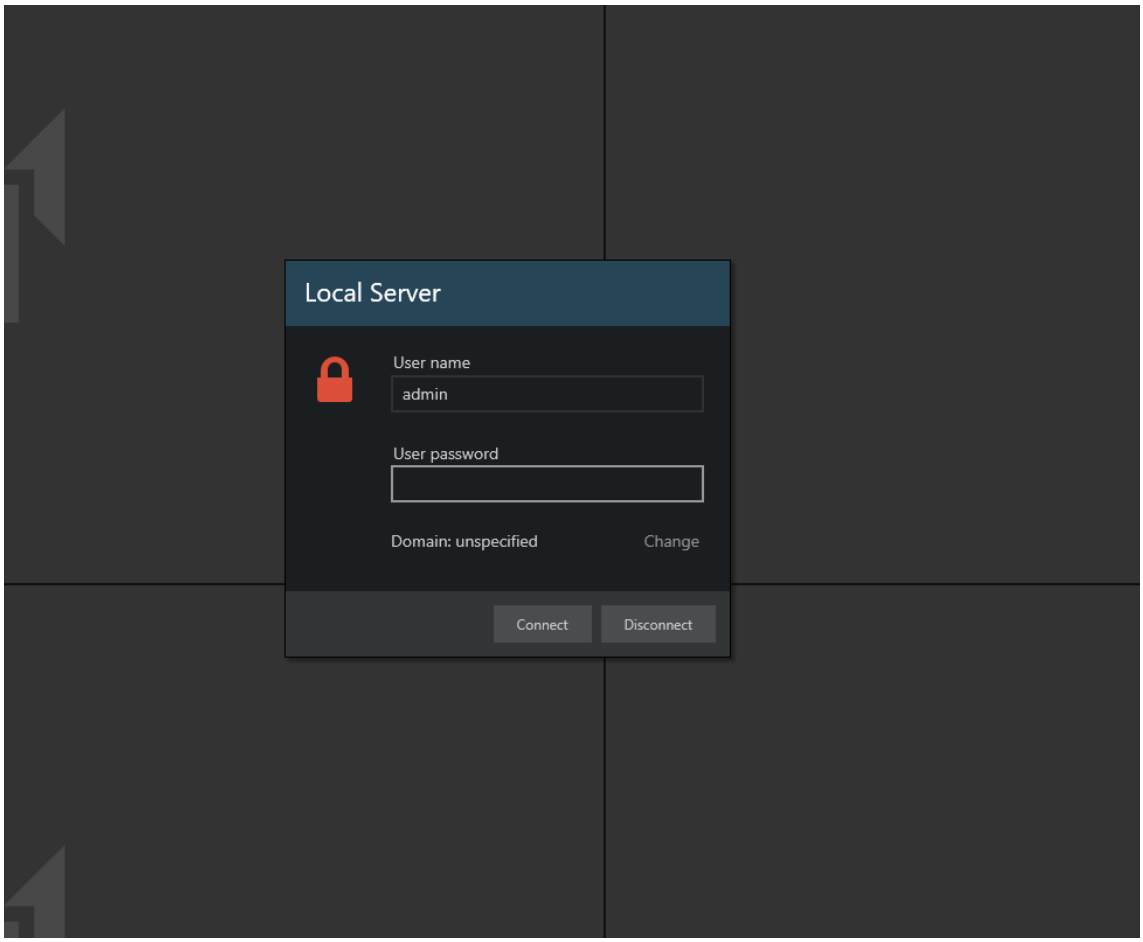
Open the "Video analytics" settings menu on the left-hand side of the modal window. You will see three options there: "Camera-side metadata", "External metadata" and "External service metadata". Enabling these options is necessary to save alert information on video in iSentry MMS Monitor.



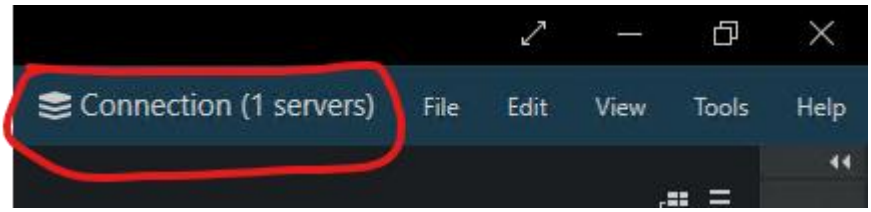
Click on the "OK" button. These settings need to be enabled for each camera.

4.1.2. Configuration of iSentryMMS Monitor

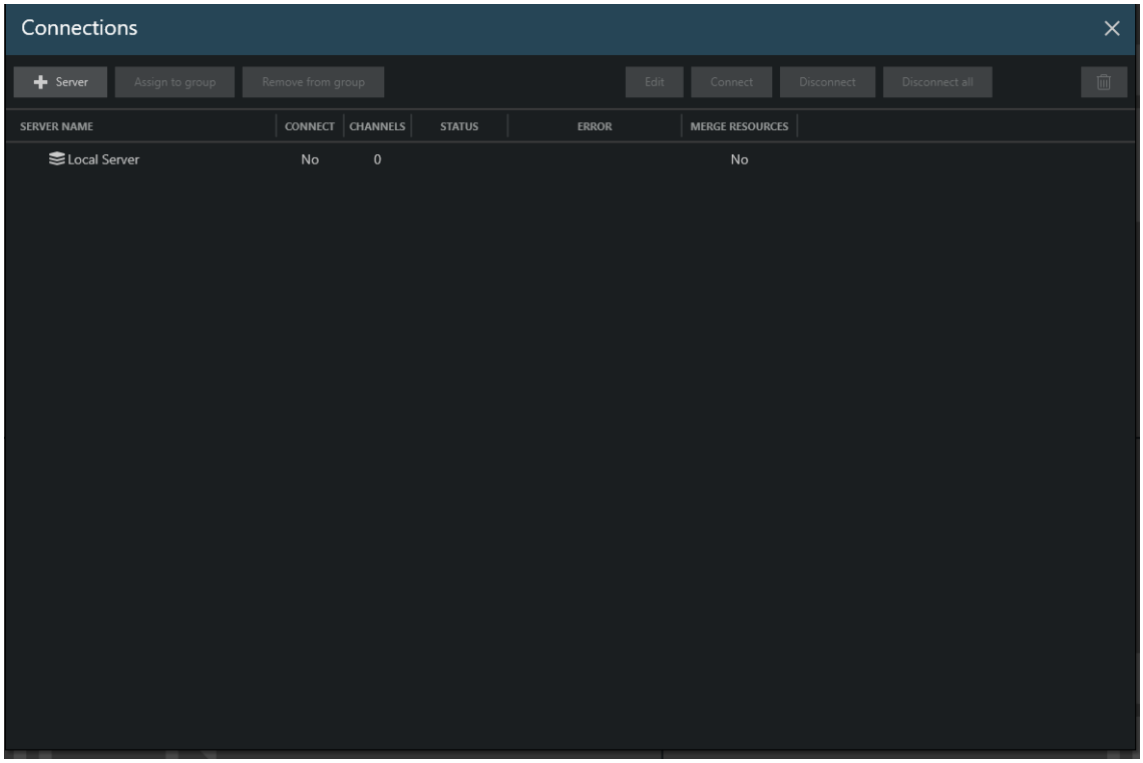
The iSentry MMS tool is the main tool for operators to monitor cameras and events. In this section, you need to set up the program.



Before setting up a connection to the server, you need to find “Connection (1 server)” in the top right corner of the program and click on it.

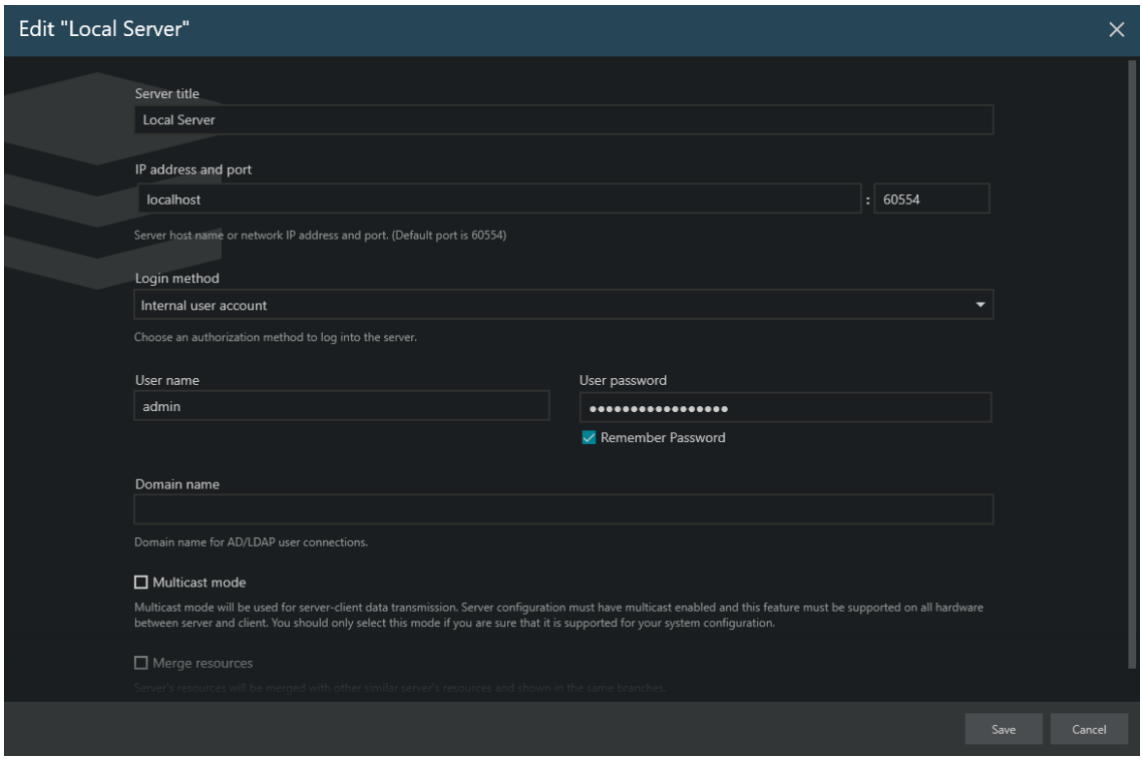


Select "Local Server" from the list and click on the "Edit" button.

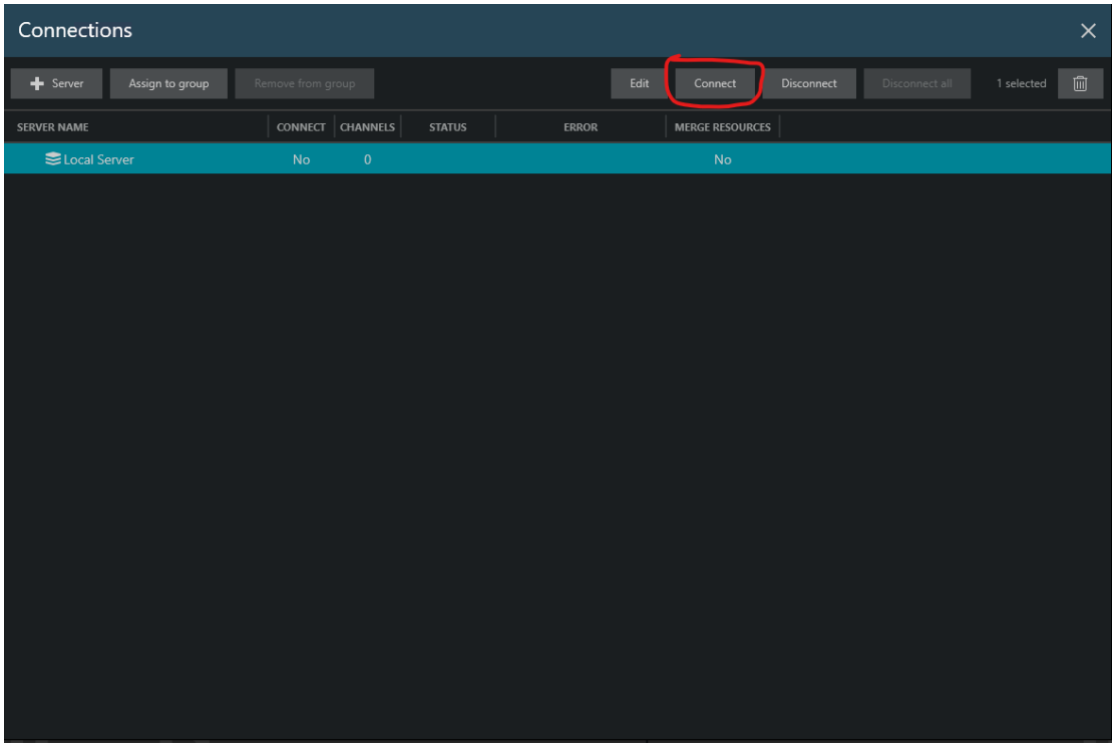


Fill in the required fields with the IP address, username and password of the iSentryMMS Server, then check the "Remember password" box and click on

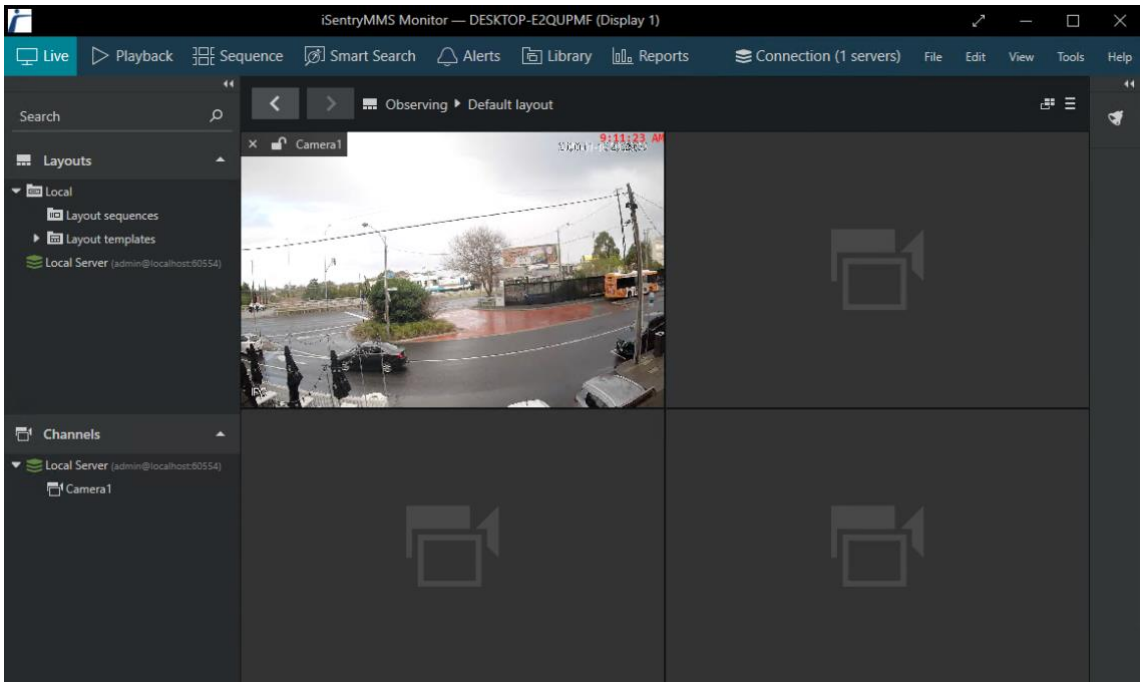
the "Save" button.



Click on the “Connect” button.

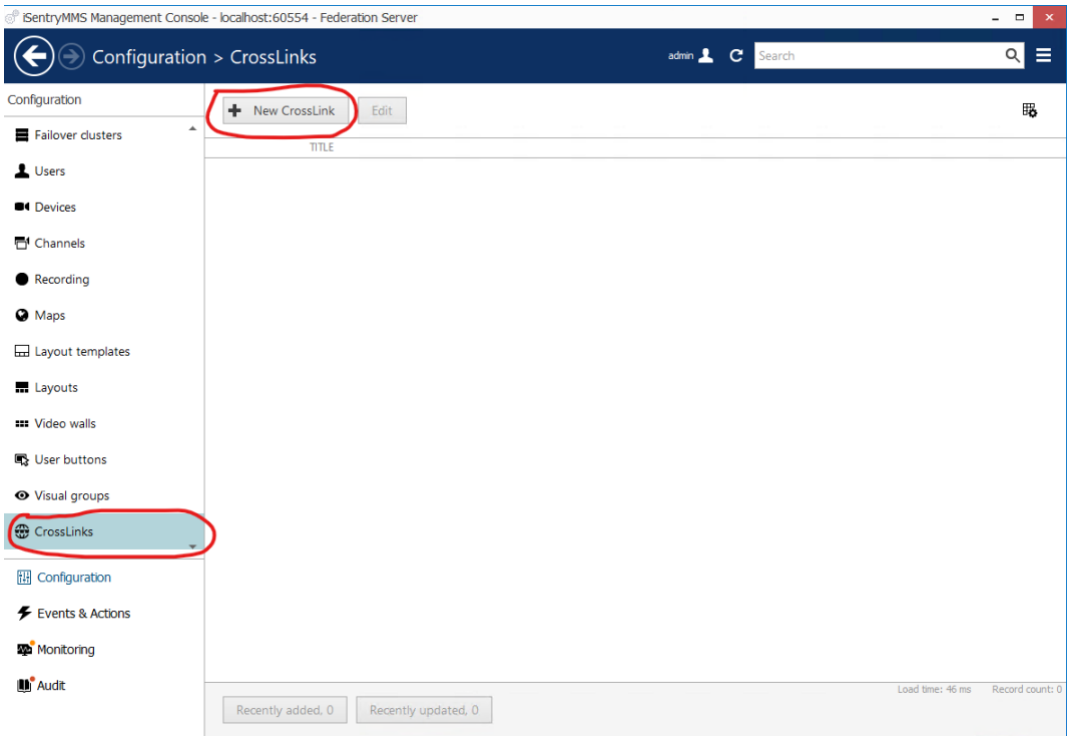


After that, you will see a live camera view.

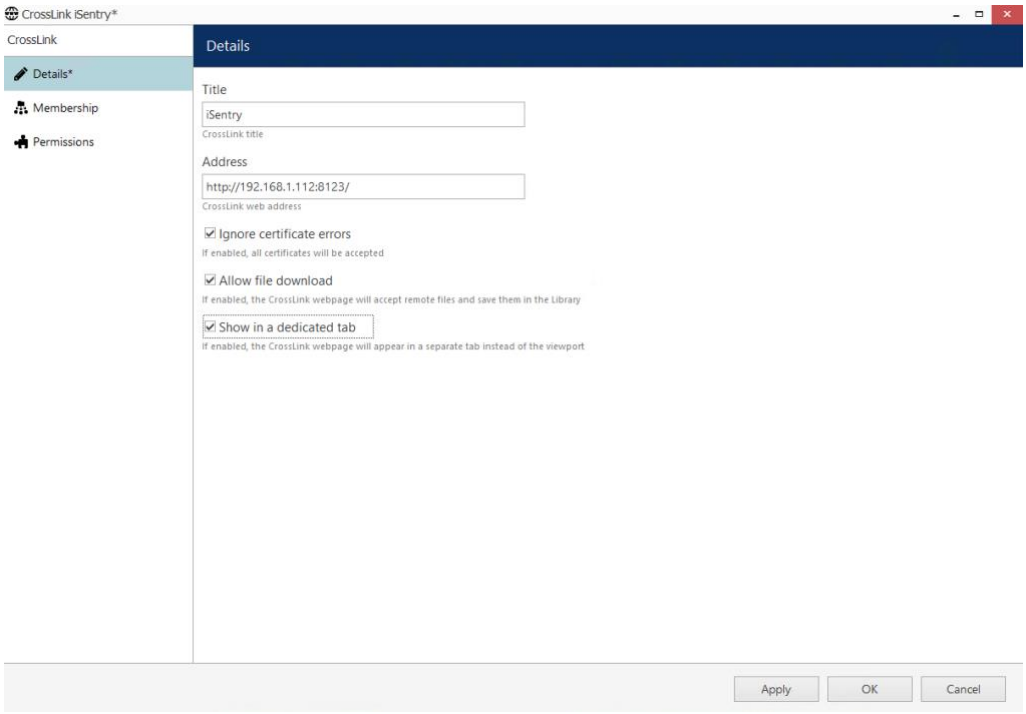


4.1.3. Configuration of CrossLink in the iSentry MMS Console

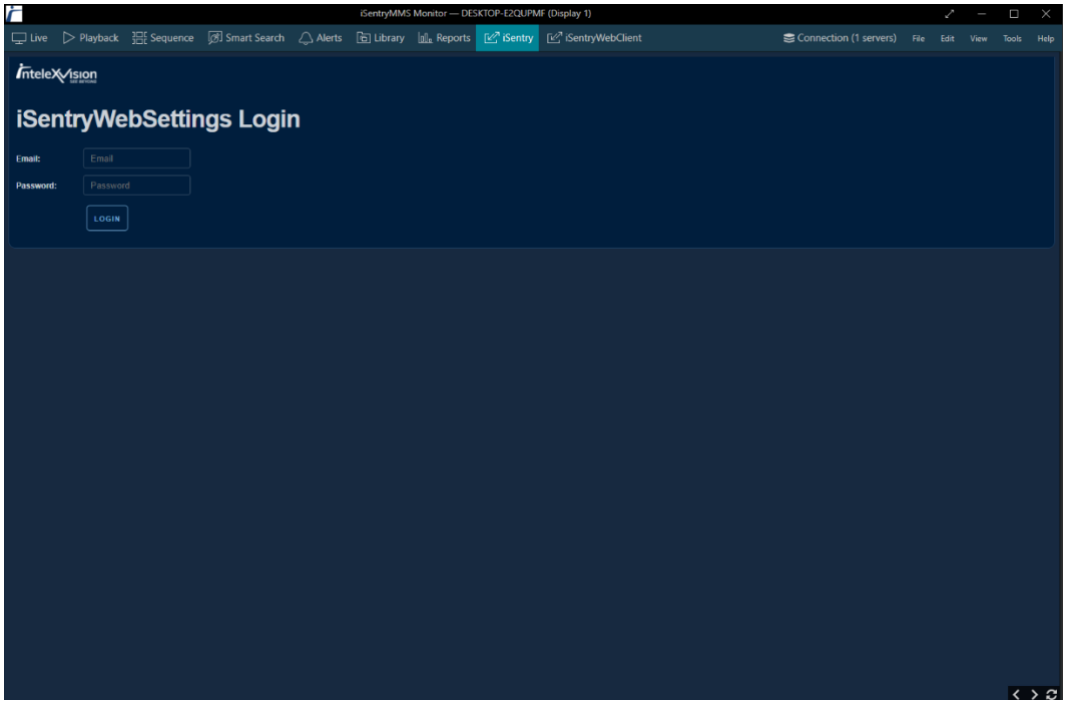
To add external web pages to the iSentryMMS Monitor interface, open the iSentMMS Console and navigate to the "Cross Links" section. Click on the "New CrossLink" button.



The model windows will open. Type in the title, address of the webpage and check the three boxes with additional settings.



The same procedure can be followed to add the iSentry WebClient page to the system. When you open the iSentryMMS Client, you will see two tabs at the top of the page with the added web pages. Click on one of the tabs and the corresponding web page will open.



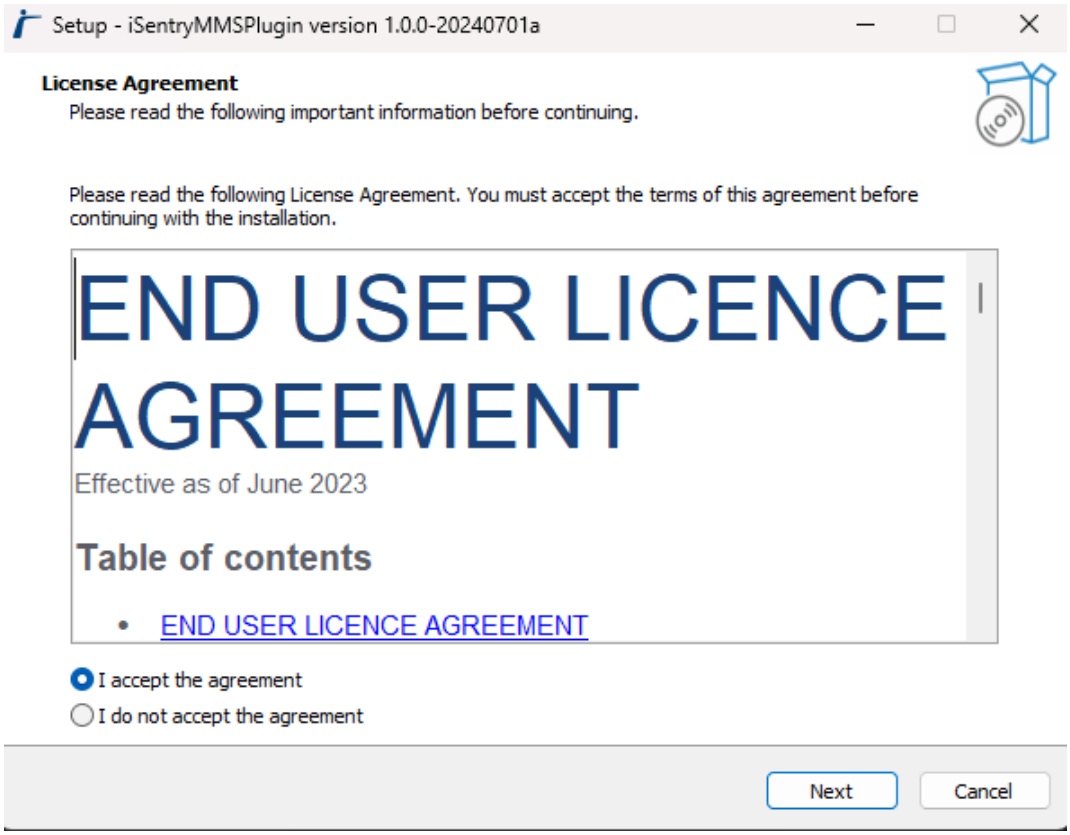
4.2. Installing and configuring iSentryMMS Plugin

4.2.1. Uninstall previous version

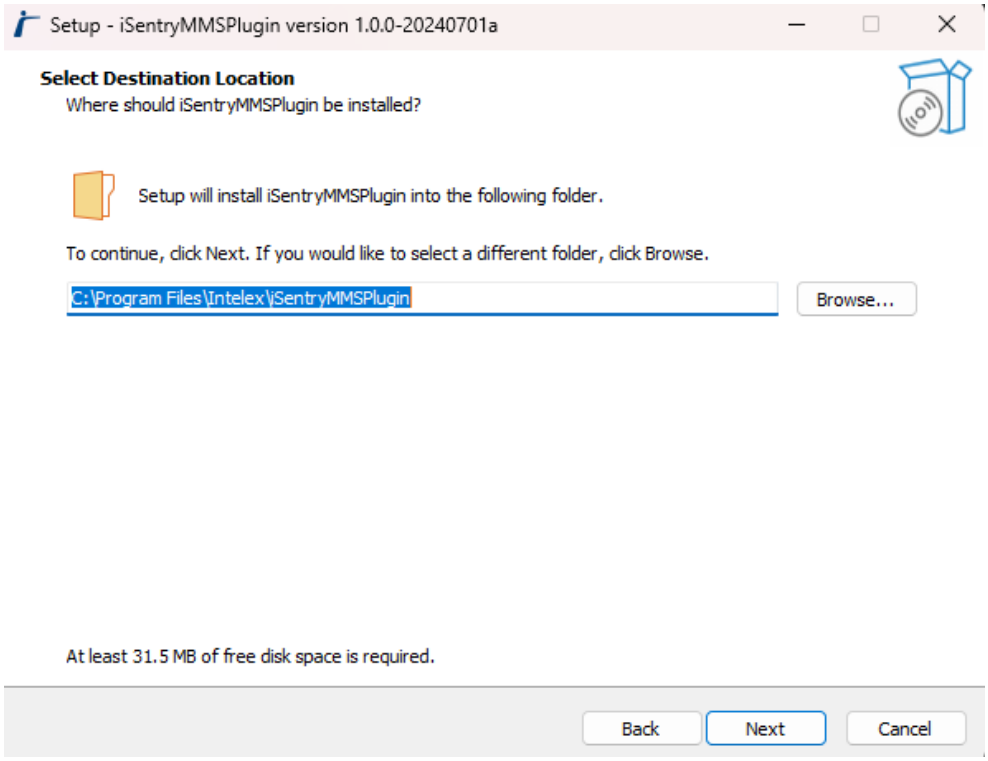
If you are installing iSentryMMS Plugin for the first time on a new machine, please skip this step. If you have already installed iSentryMMS Plugin, uninstall the previous version before installing the new one.

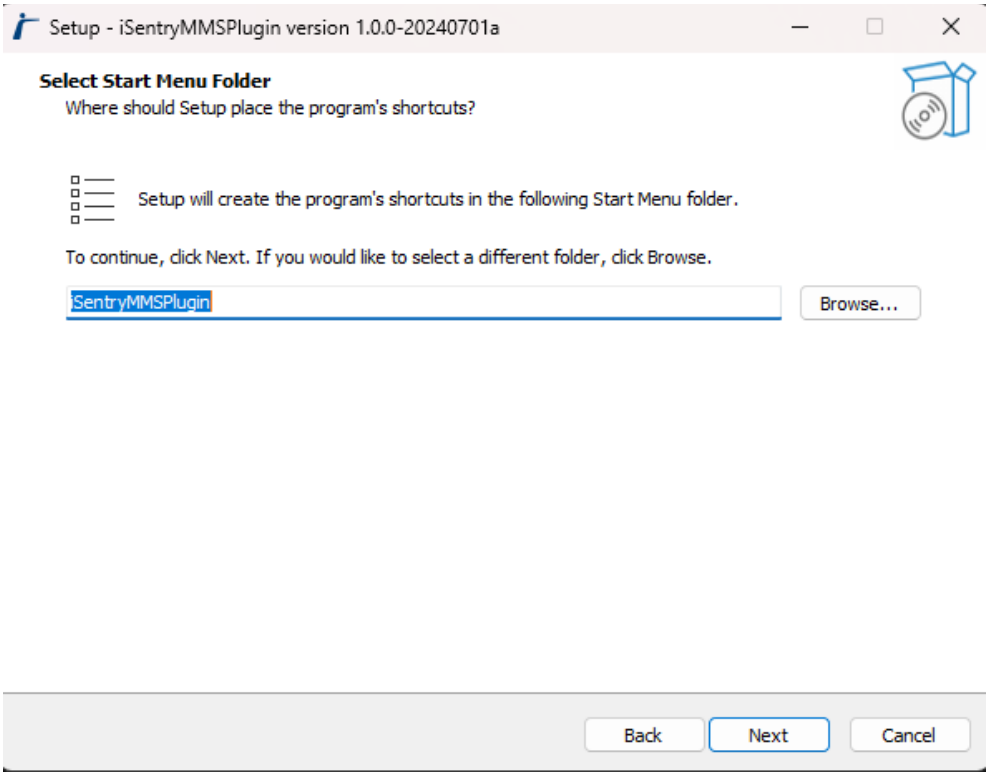
4.2.2. Install the standard iSentryMMS Plugin

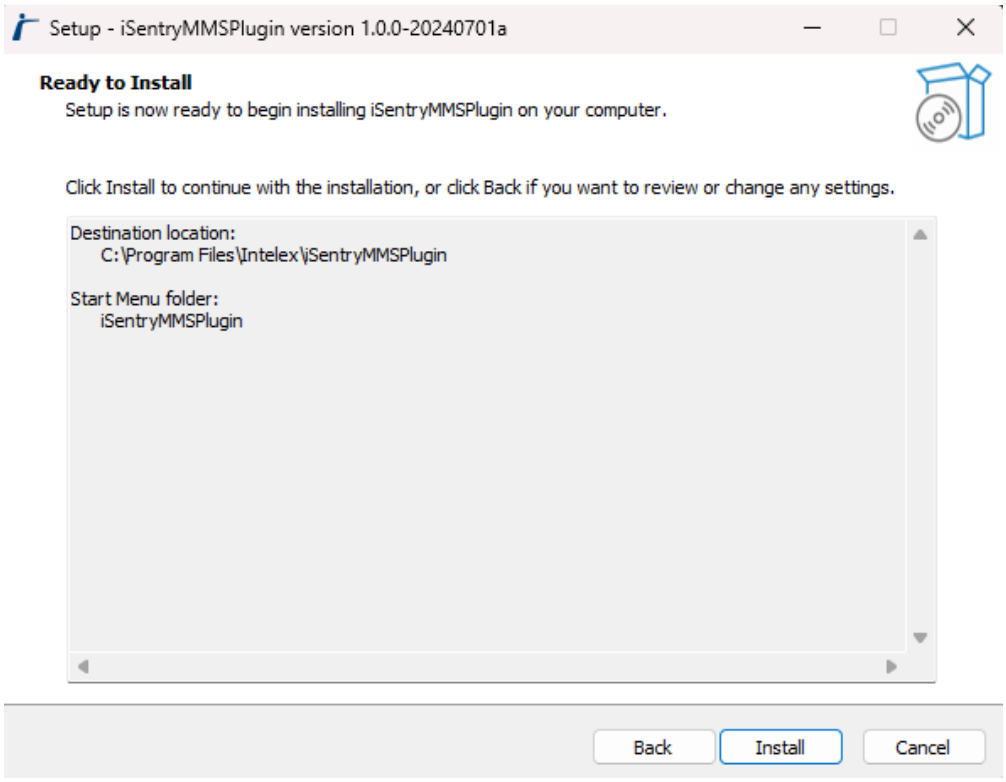
Double click the installation exe file and allow the setup wizard.

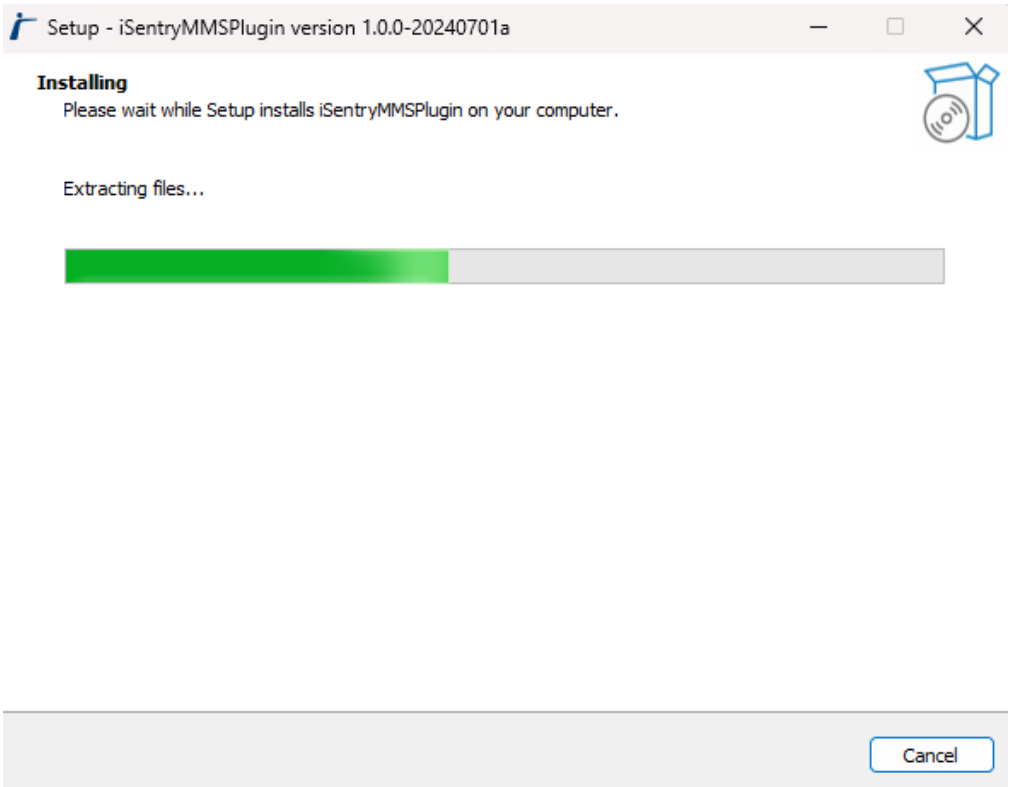


Select installation location.



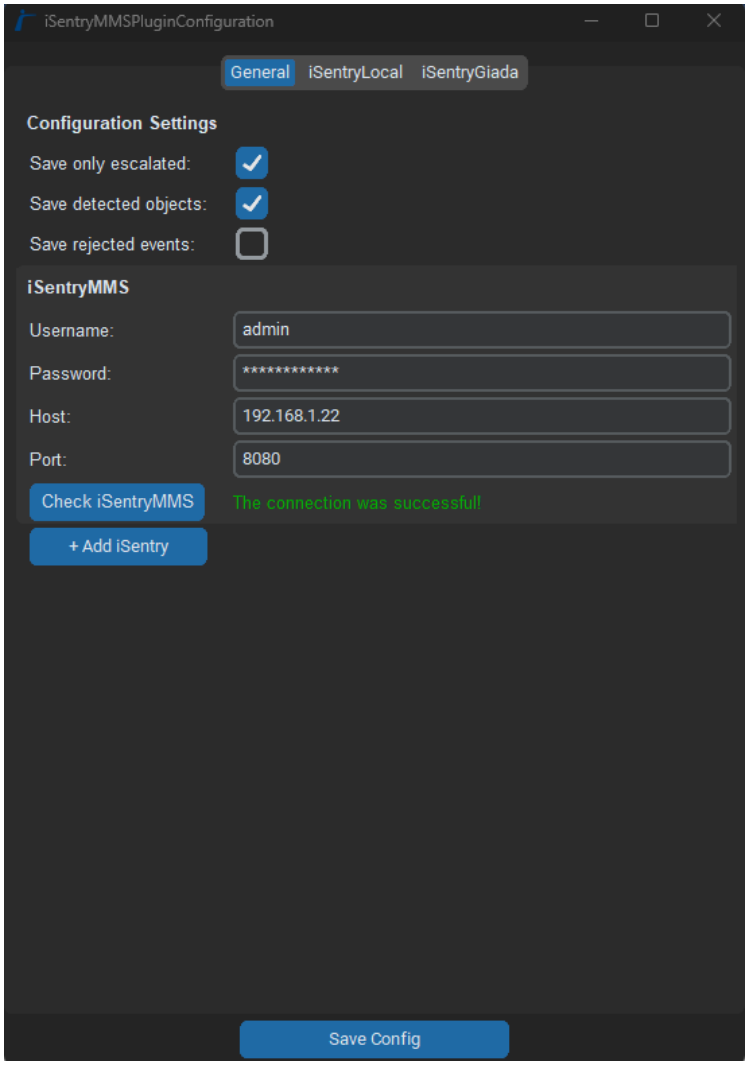



Setup - iSentryMMSPlugin version 1.0.0-20240701a
Ready to Install
Setup is now ready to begin installing iSentryMMSPlugin on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files\Intelex\iSentryMMSPlugin
Start Menu folder:
iSentryMMSPlugin
Back
Install
Cancel


Setup - iSentryMMSPlugin version 1.0.0-20240701a
Installing
Please wait while Setup installs iSentryMMSPlugin on your computer.
Extracting files...
Cancel

Next, the utility for configuring the iSentryMMS will appear. Using this tool, you can check the connection and configure the iSentryMMS Plugin.

You will need to provide some information, including your username, password (which you created when creating a new Windows user), and the hostname (for a local installation, use 127.0.0.1). After that, click "Check Connection" to verify your connection.

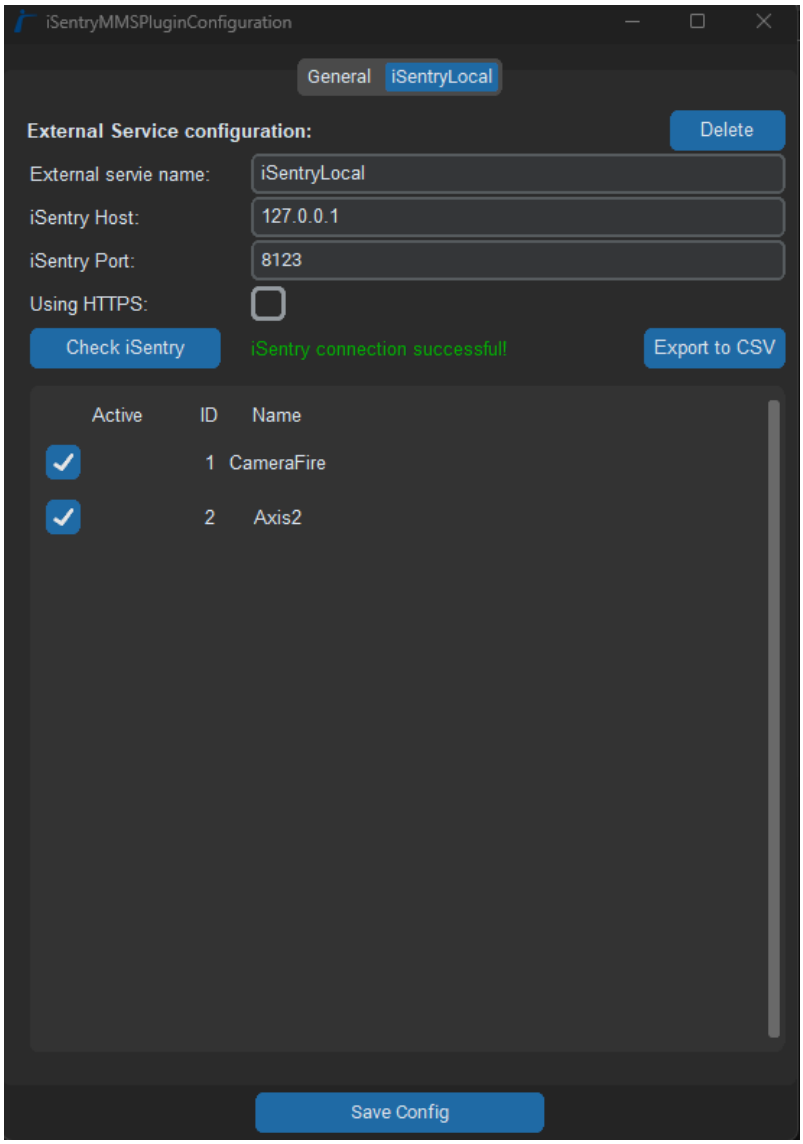


Using the following settings, you can control the behavior of the iSentryMMS plugin:

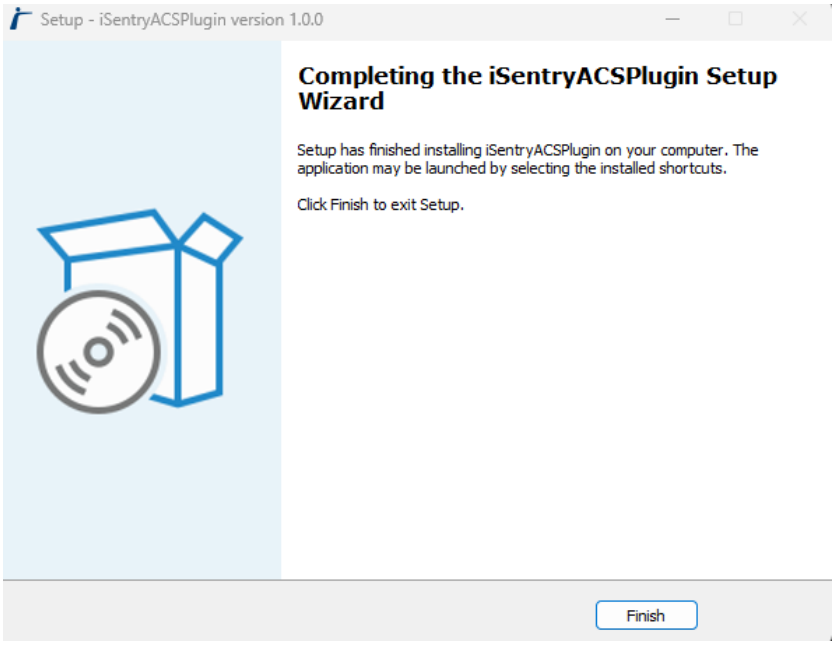
- “Save only escalated” - this option allows you to save only events that have been escalated in the iSentry system.
- “Save detected objects” - this option allows you to show all detected objects in the iSentryMMS monitor video frame.
- “Save rejected events” - allows you to save events that are rejected by the iSentry system.

iSentryMMS can interact with iSentry systems to retrieve events, while iSentry can connect with iSentryMMS to receive video streams. Each iSentry system is registered as an external service within the iSentryMMS management console.

To add a new iSentry to the system, click the "Add iSentry" button. This will open a dedicated tab for iSentry integration settings. In this tab, you can configure iSentry credentials and check its availability. Ensure all fields in the form are completed. Additionally, you can link cameras in iSentryMMS to iSentry by selecting them from the list.

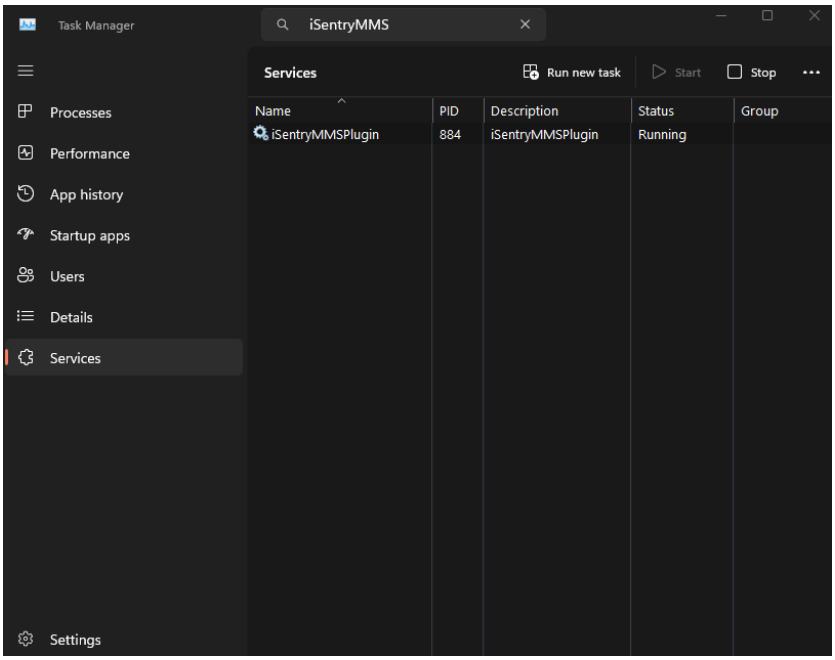


After configuration click “Save & Restart” button.



After saving, the tool will automatically close.

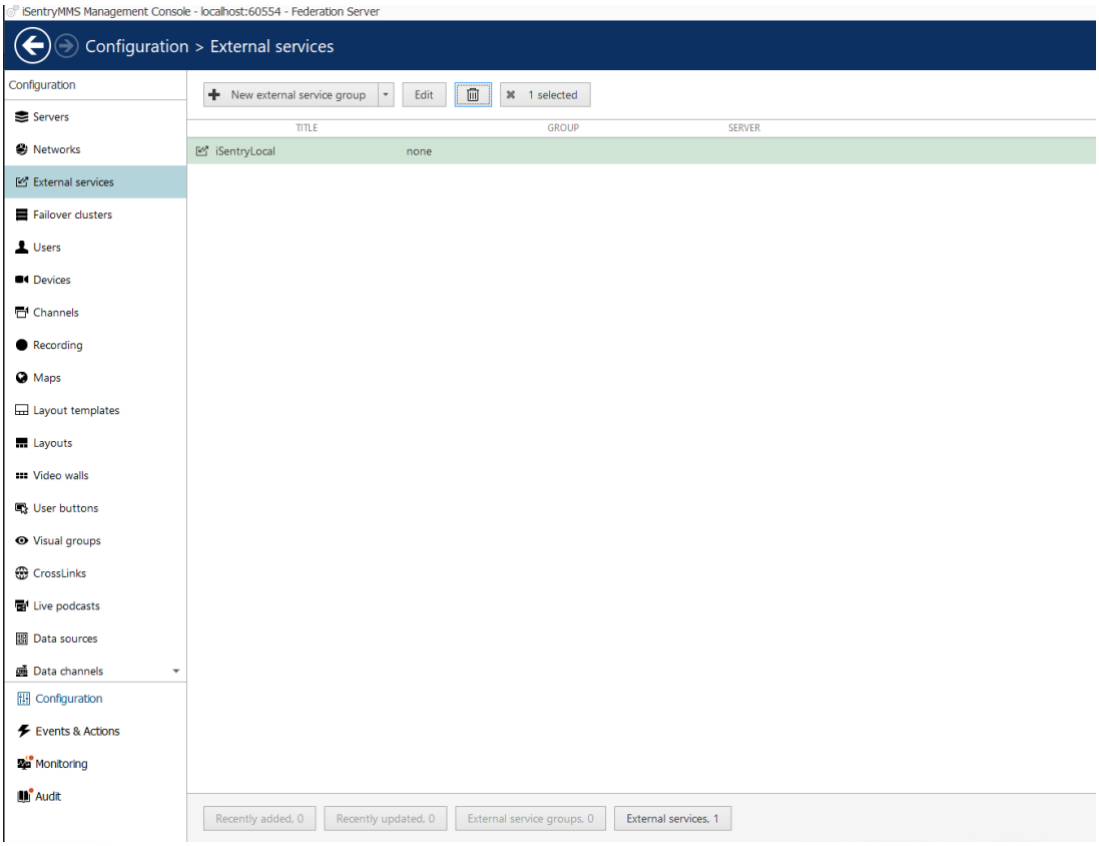
To check the status of the iSentryMMS Plugin, open Windows Task Manager. From there, navigate to the "Services" tab and look for the iSentryMMSPlugin entry. The service should be running. Start this service if it’s not running.



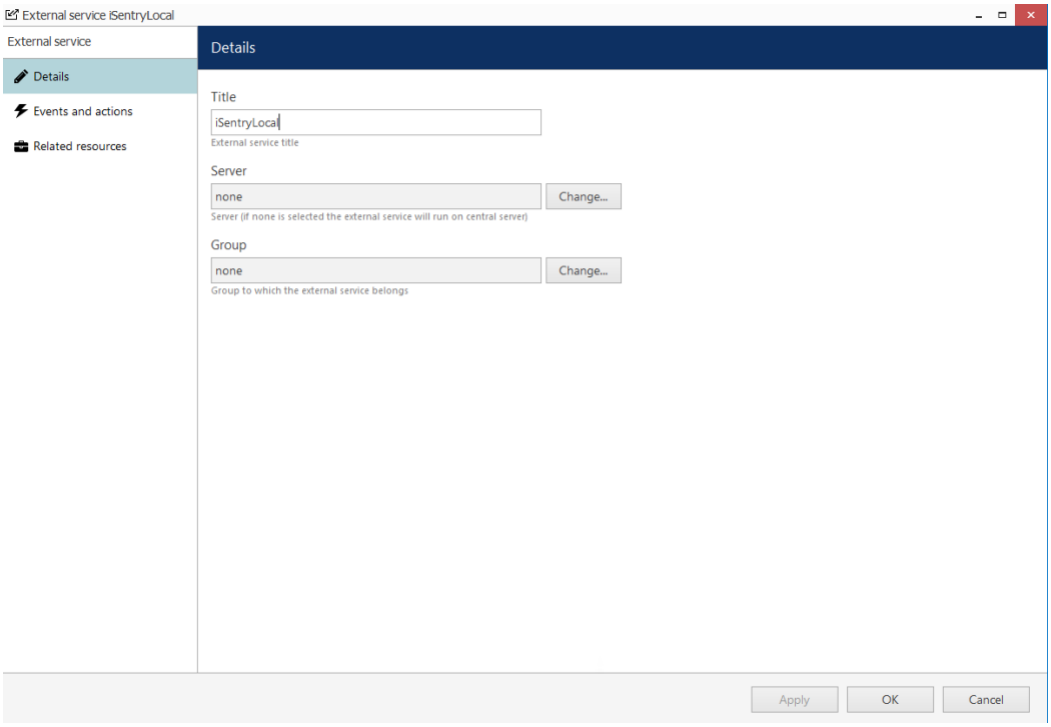
4.2.3. Configure iSentryMMS

After installation and initial configuration, you should verify the settings by opening the iSentryMMS console. Each iSentry is registered as an external service in the system. To view the list of external services:

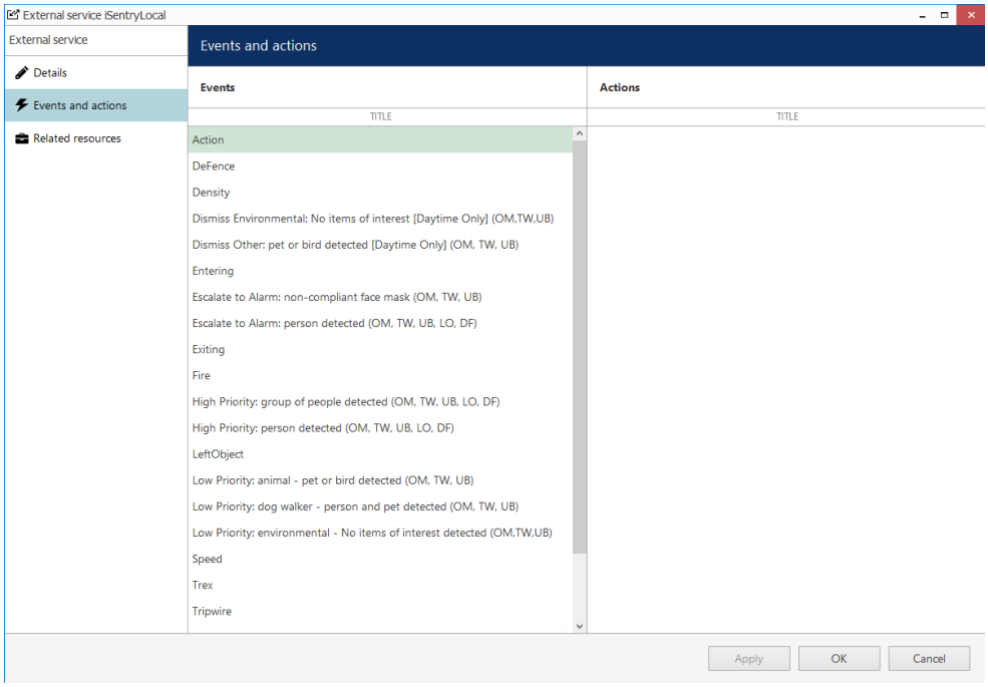
- Open the iSentryMMS console.
- Navigate to the Configuration section.
- Click on External Service to see all available external services.



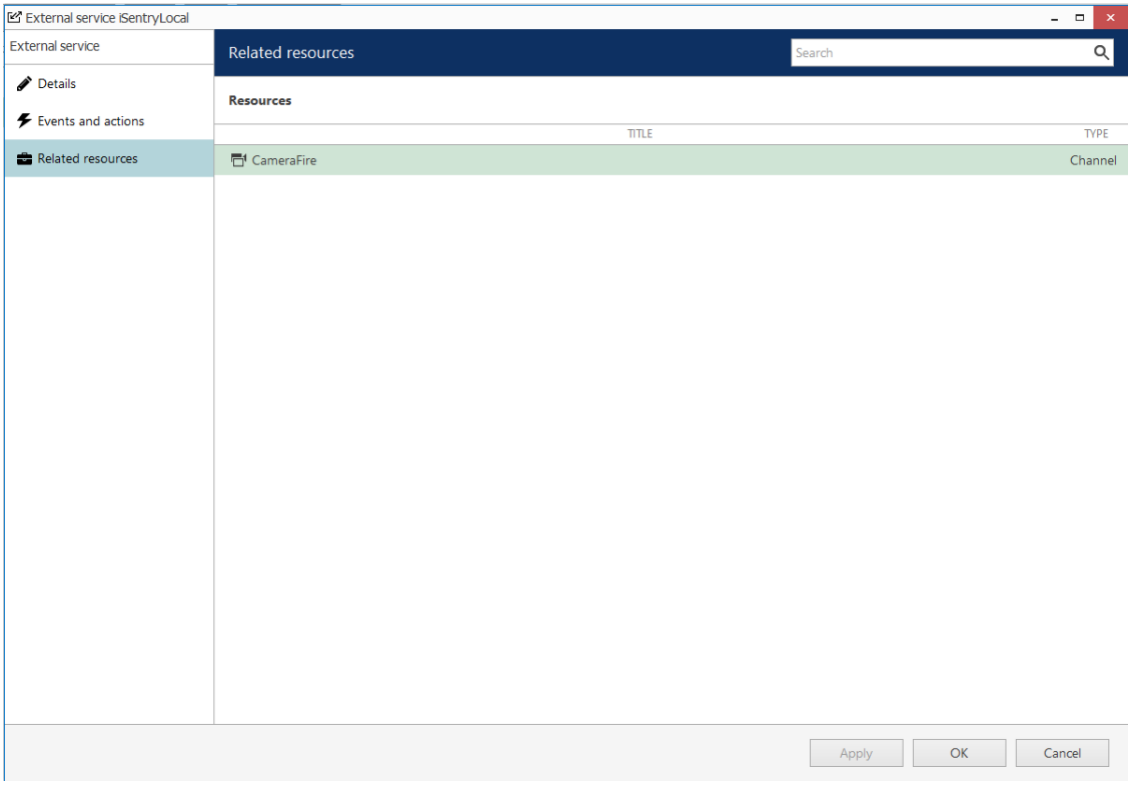
After double-clicking on an external service, the main page will open, allowing you to change the service name and configure the service group (necessary for setting up event rules).



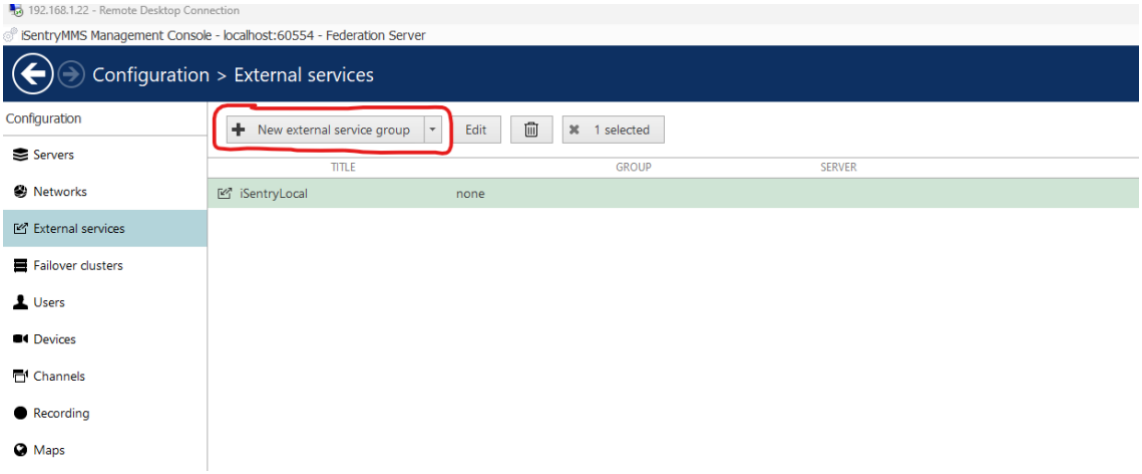
Next, check the "Events and Actions" tab. Events and rules from the iSentry system should appear here.



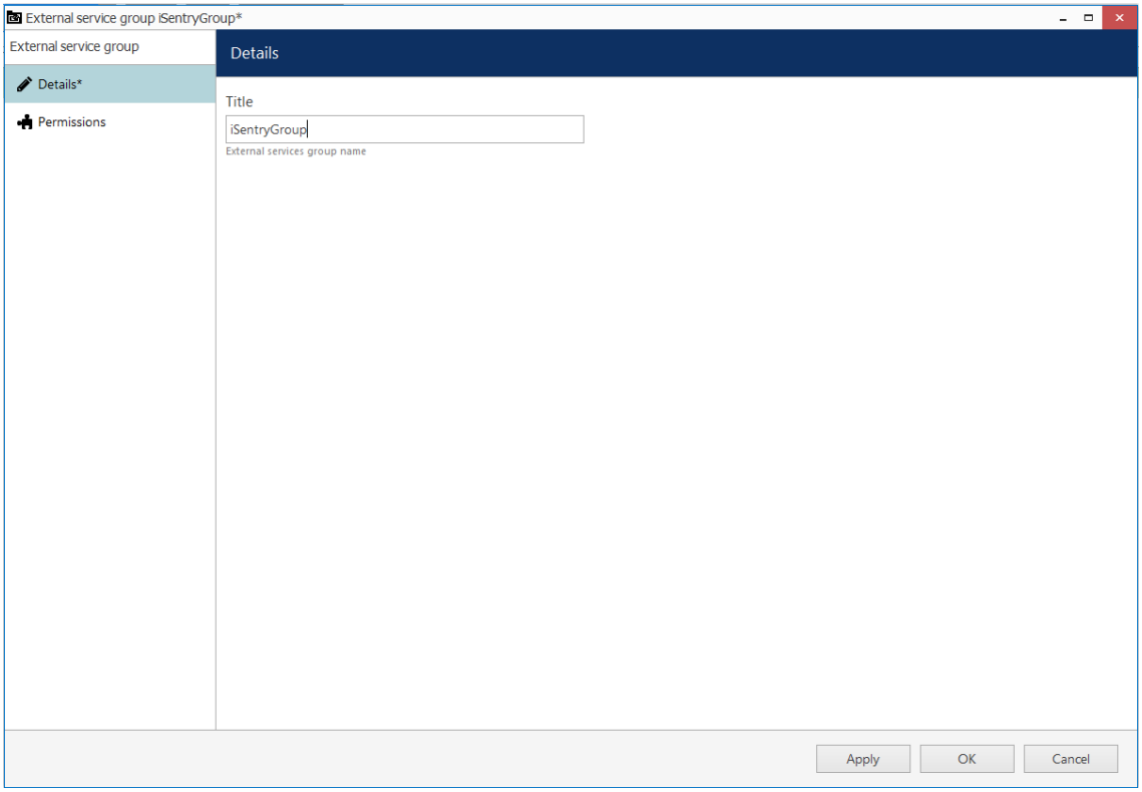
Finally, on the "Related Resource" tab, you should see the camera that you linked with iSentry during the configuration step.



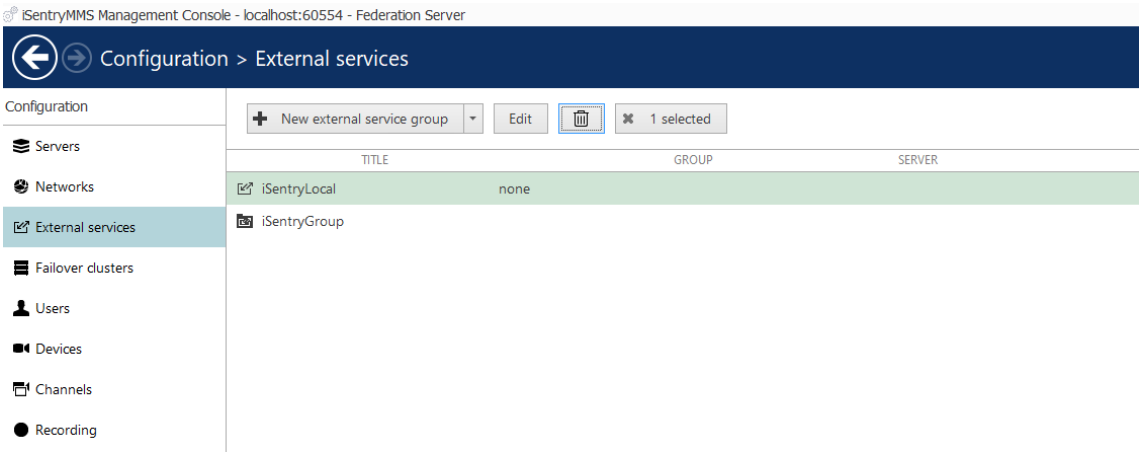
After verification, create a new group and link it with the external service. This group will be used to define rules for how events are processed in iSentryMMS. To create a new group, click the "New External Service Group" button.



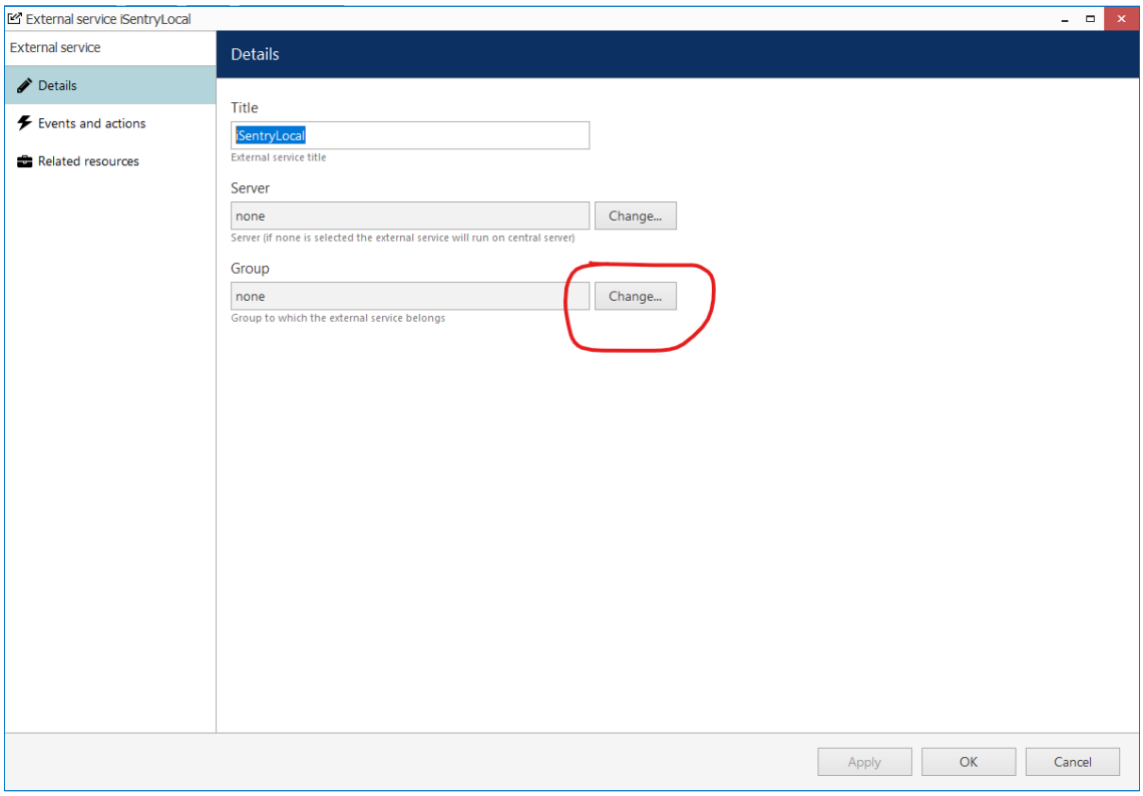
Set the group name, and click the "OK" button.



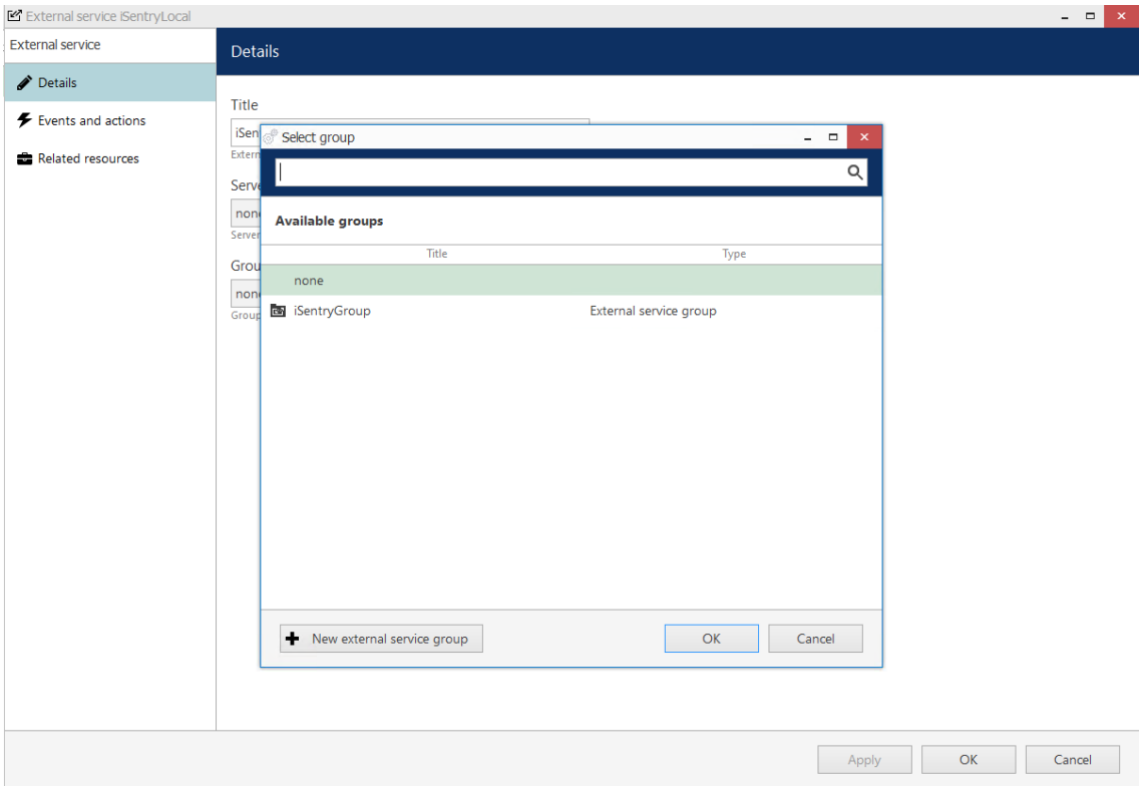
After saving, the group should appear in the list.



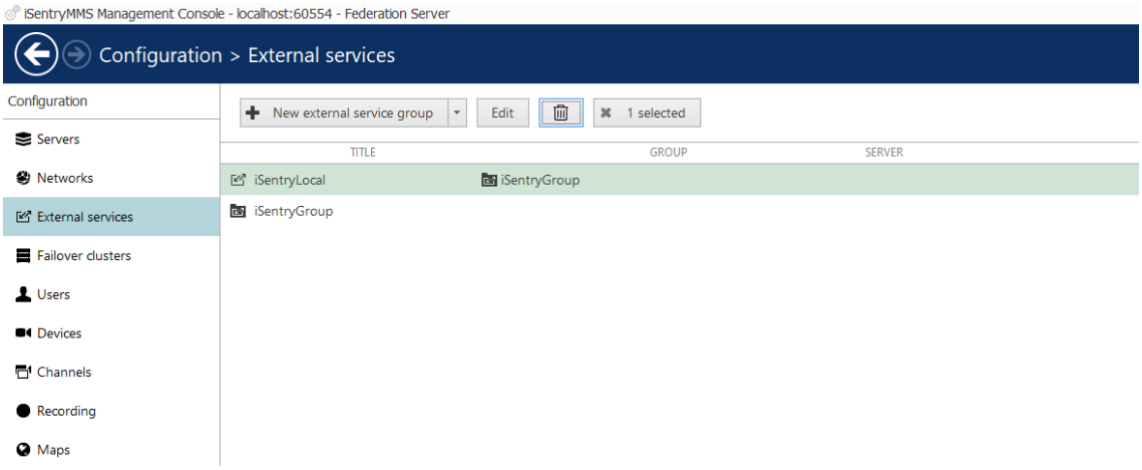
Select the external service from the list, open it for editing, and link it to the newly created group. To do this click on the “Change” button next to the Group field.



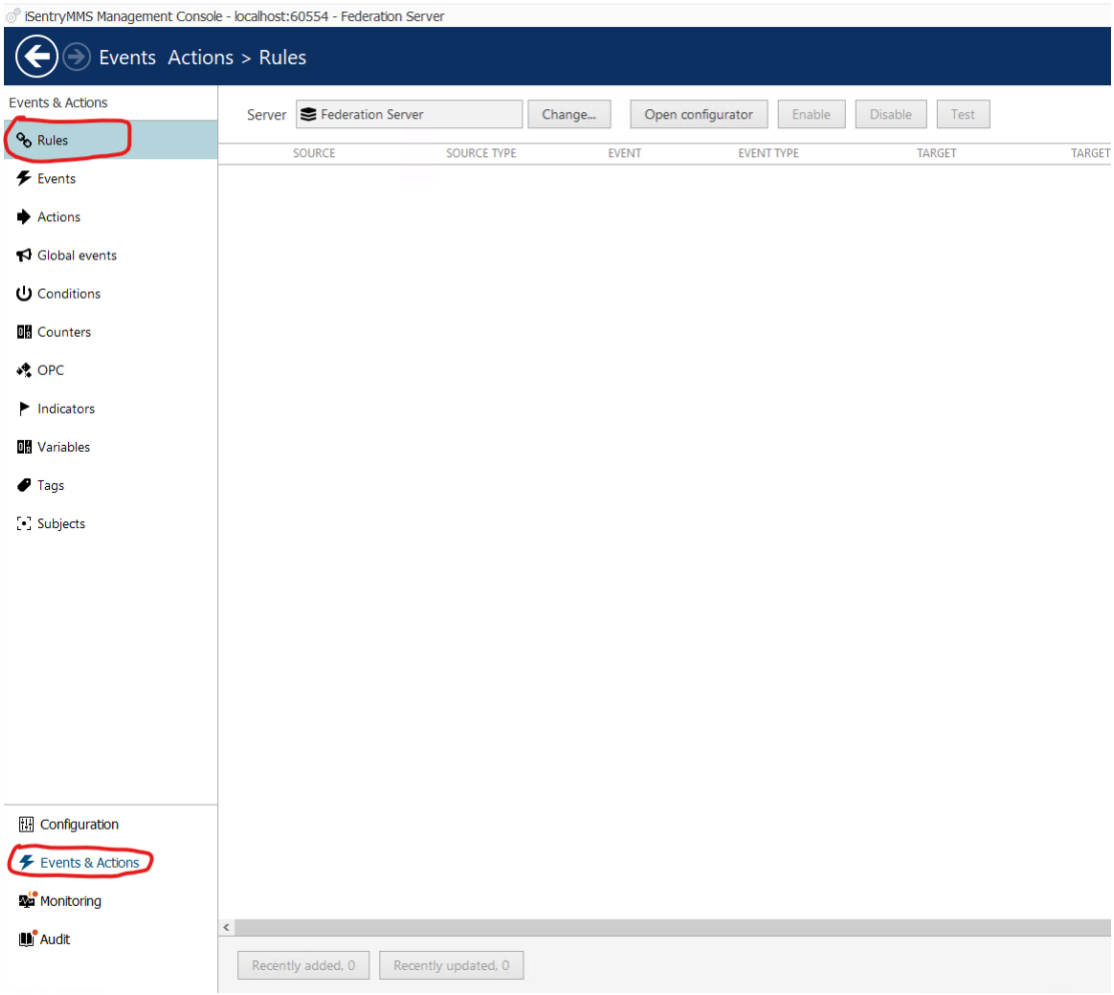
Select the group and save the changes.



The related group information should appear in the external service list.

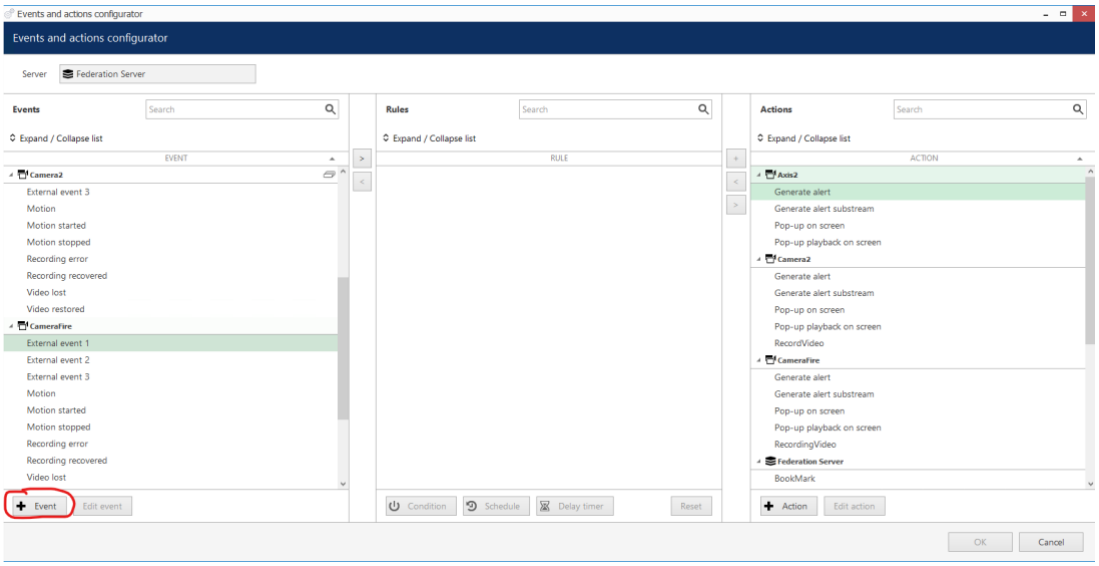


After setting up the group, you can create specific rules to handle events. To do this, open the "Events & Actions" tab in the bottom-left corner of the window, and select the "Rules" section. On this page, you will see the applied rules.

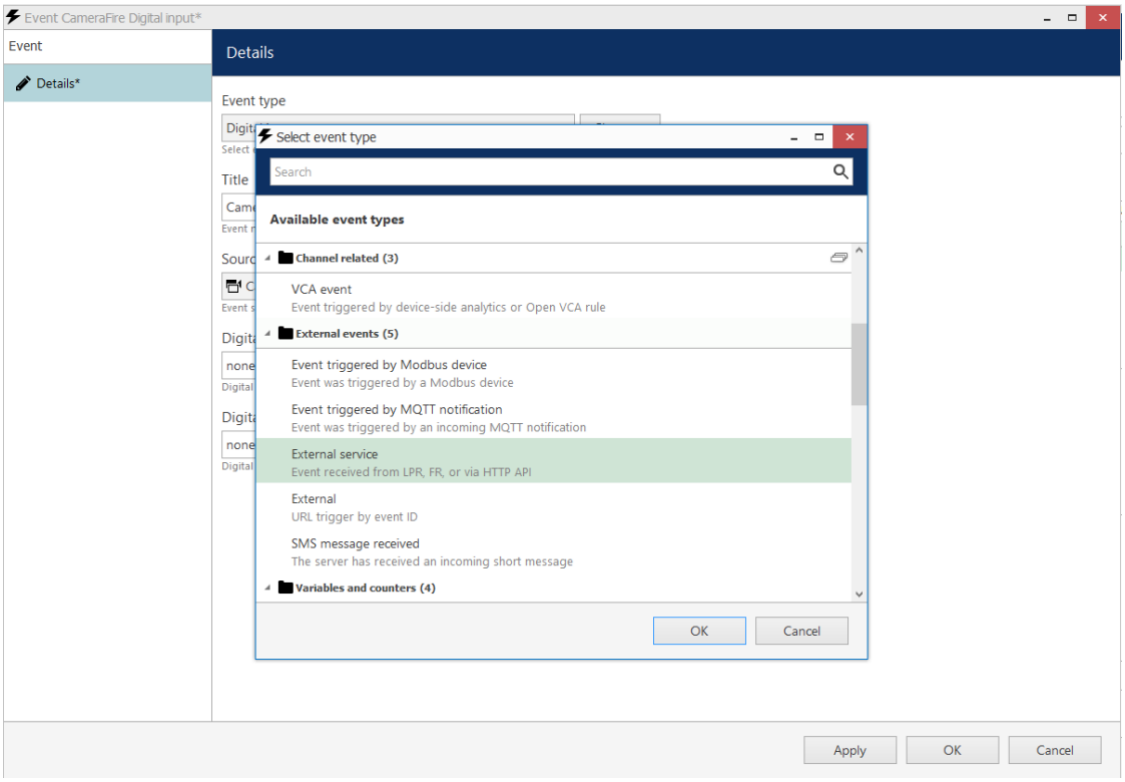


To create and configure rules, click on the "Open configurator" button.

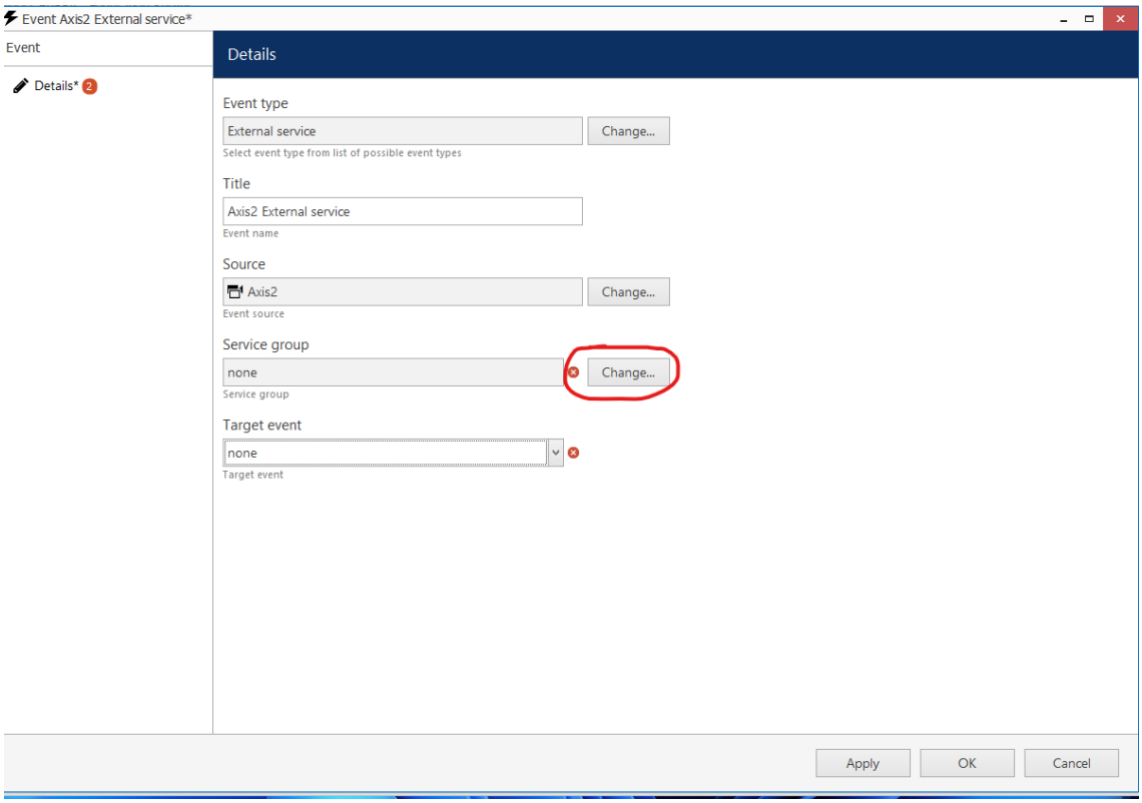
On this page, select a camera and click on "Event" to create a specific event from external service.



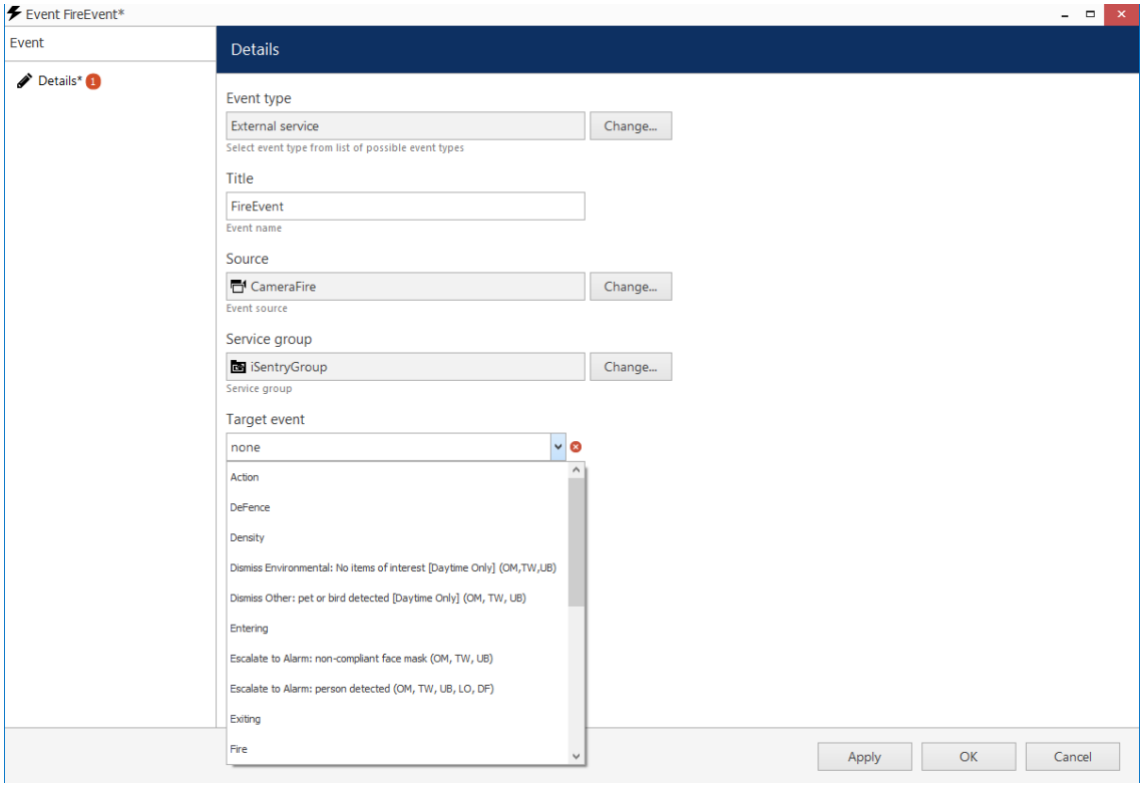
From the list, select "External service event"



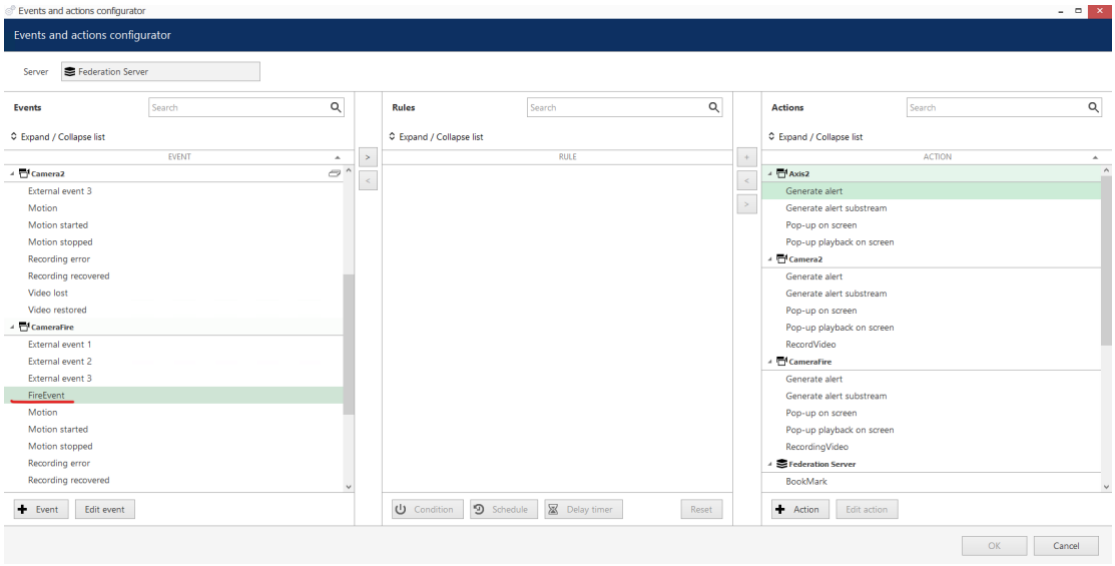
Select an external service group for events.



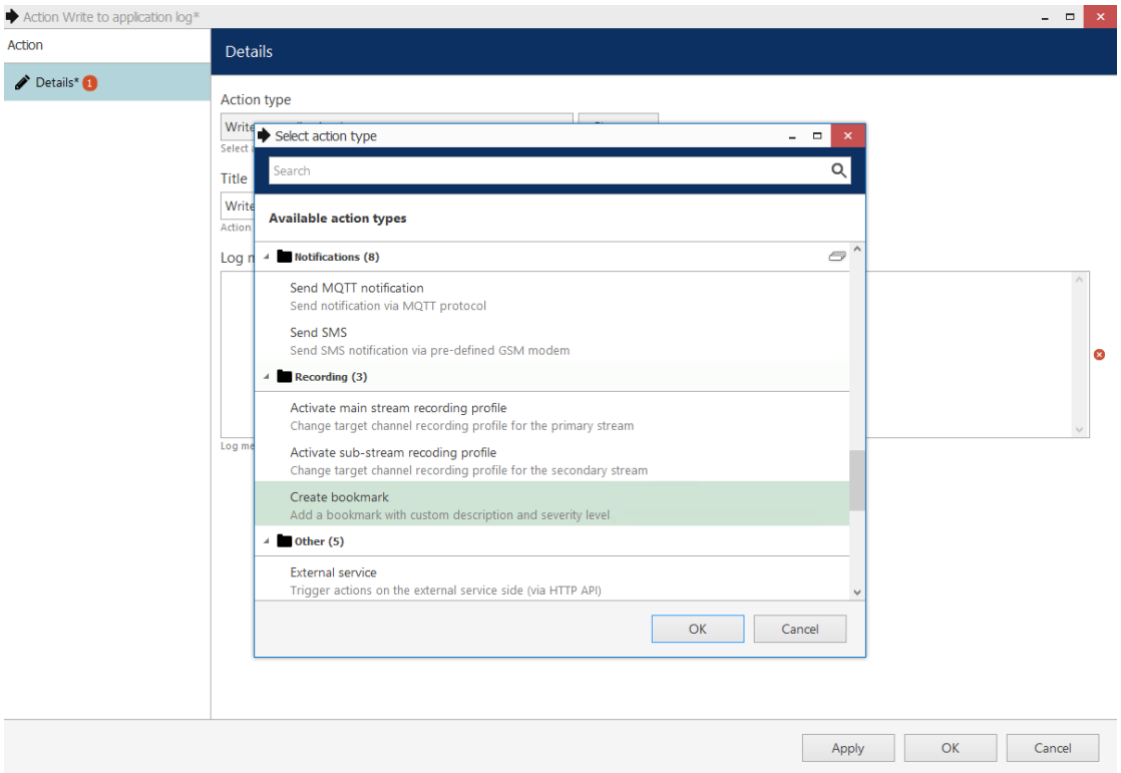
Select the target event type and set the event title.



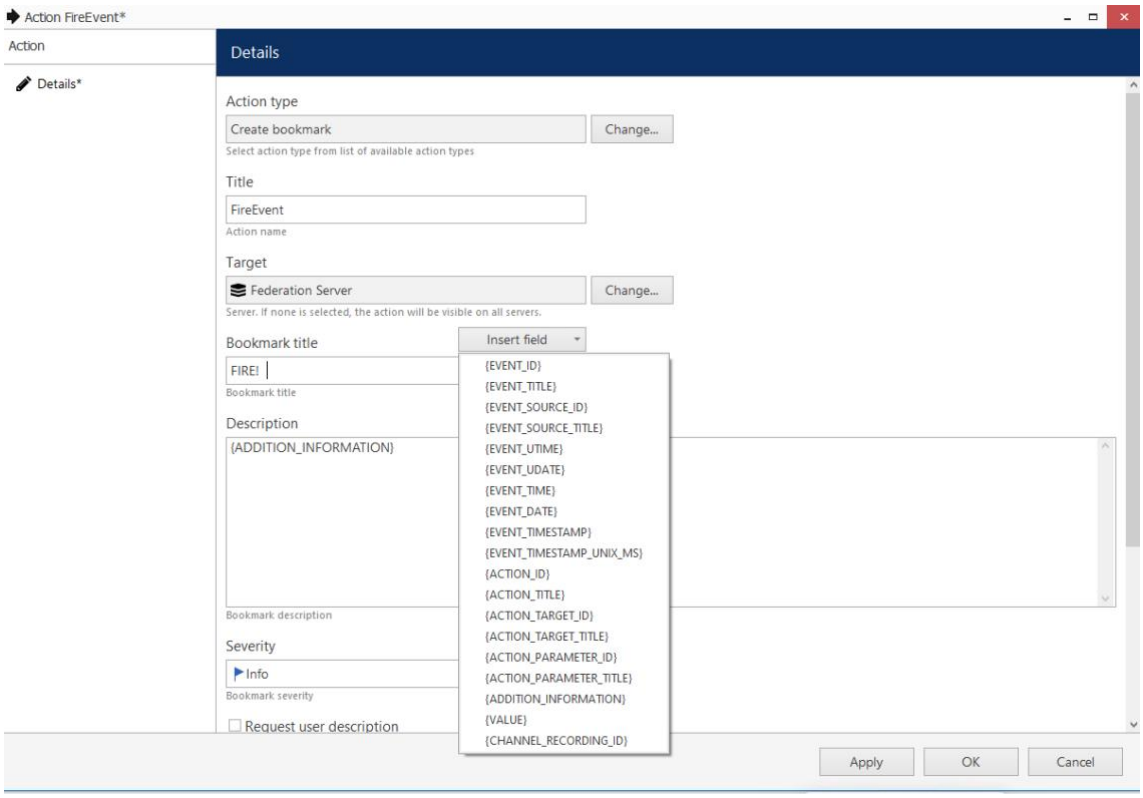
After saving, the event will appear in the events list, and you can associate it with an action in the media server.



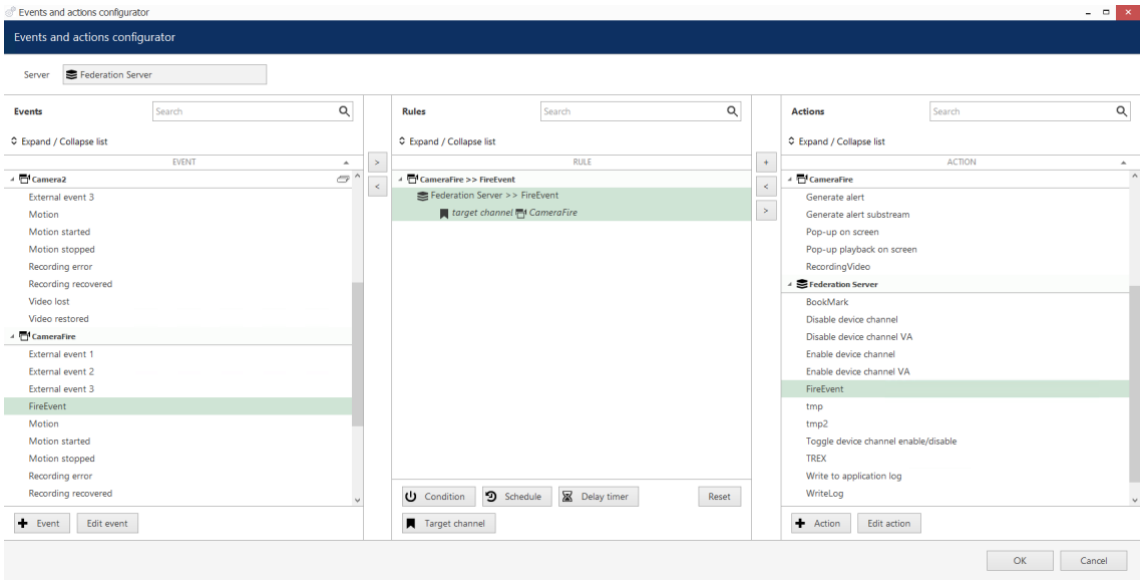
You can now create actions. For example, create an action with a bookmark for a custom event. To do this, click the "Action" button on the right part of the page and in the list select “Create bookmark”.



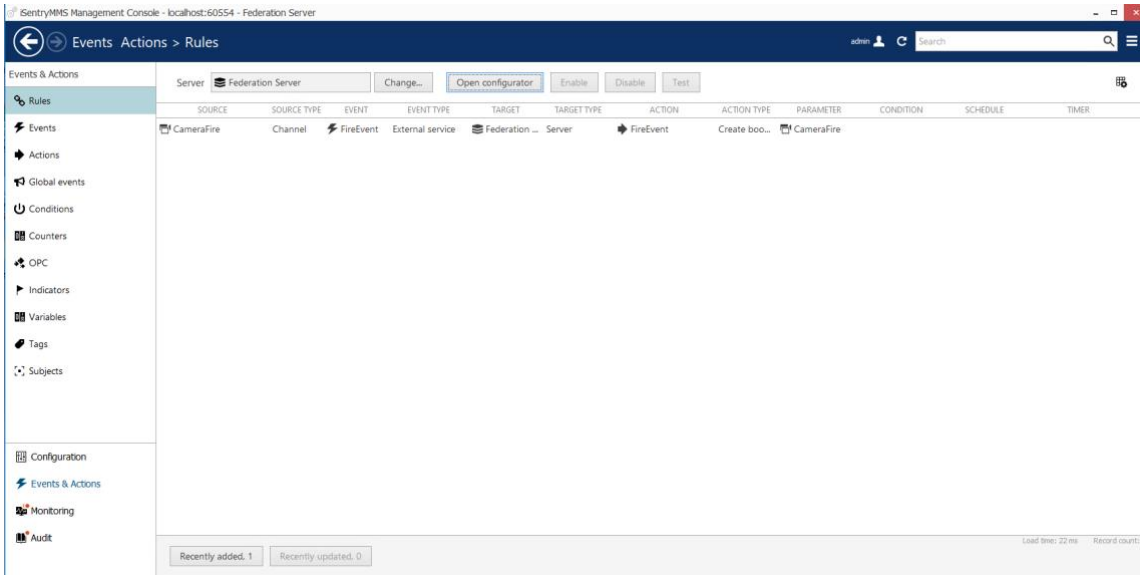
Set the bookmark name. You can use a template to include specific information. For example, configure the template to include details such as the event type, event time, event date, etc.



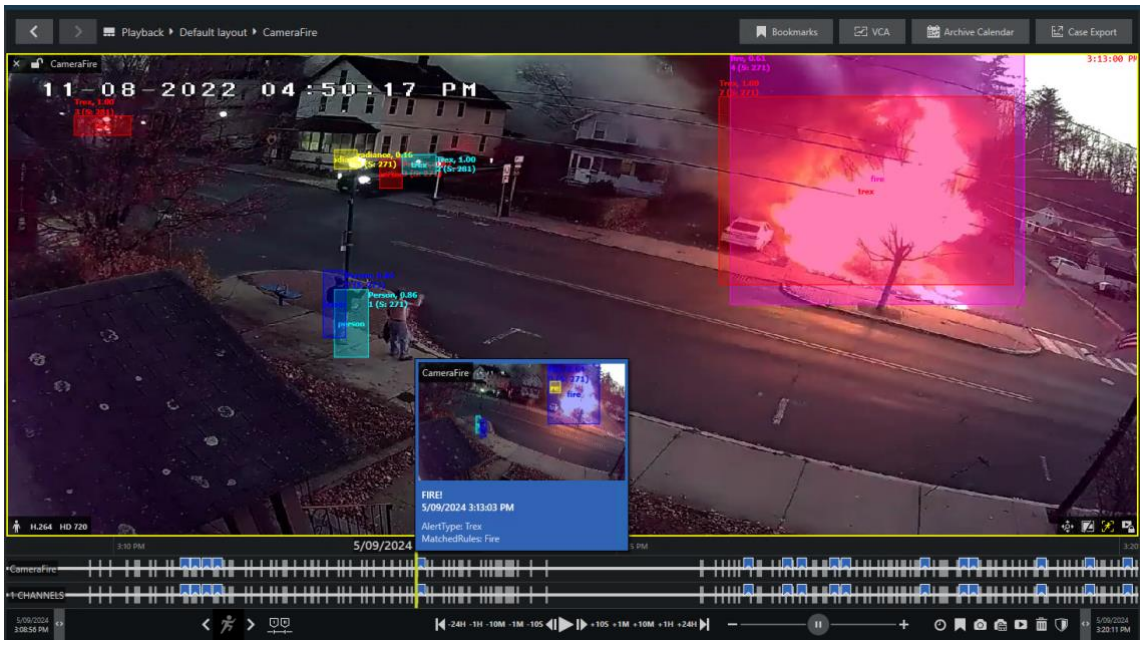
Save the action, and create a relationship between the event and the action. To do this, double-click on the event and then double-click on the action in the right part of the page.



Click "Save" to save the configuration. The created rules will then appear in the list of rules.



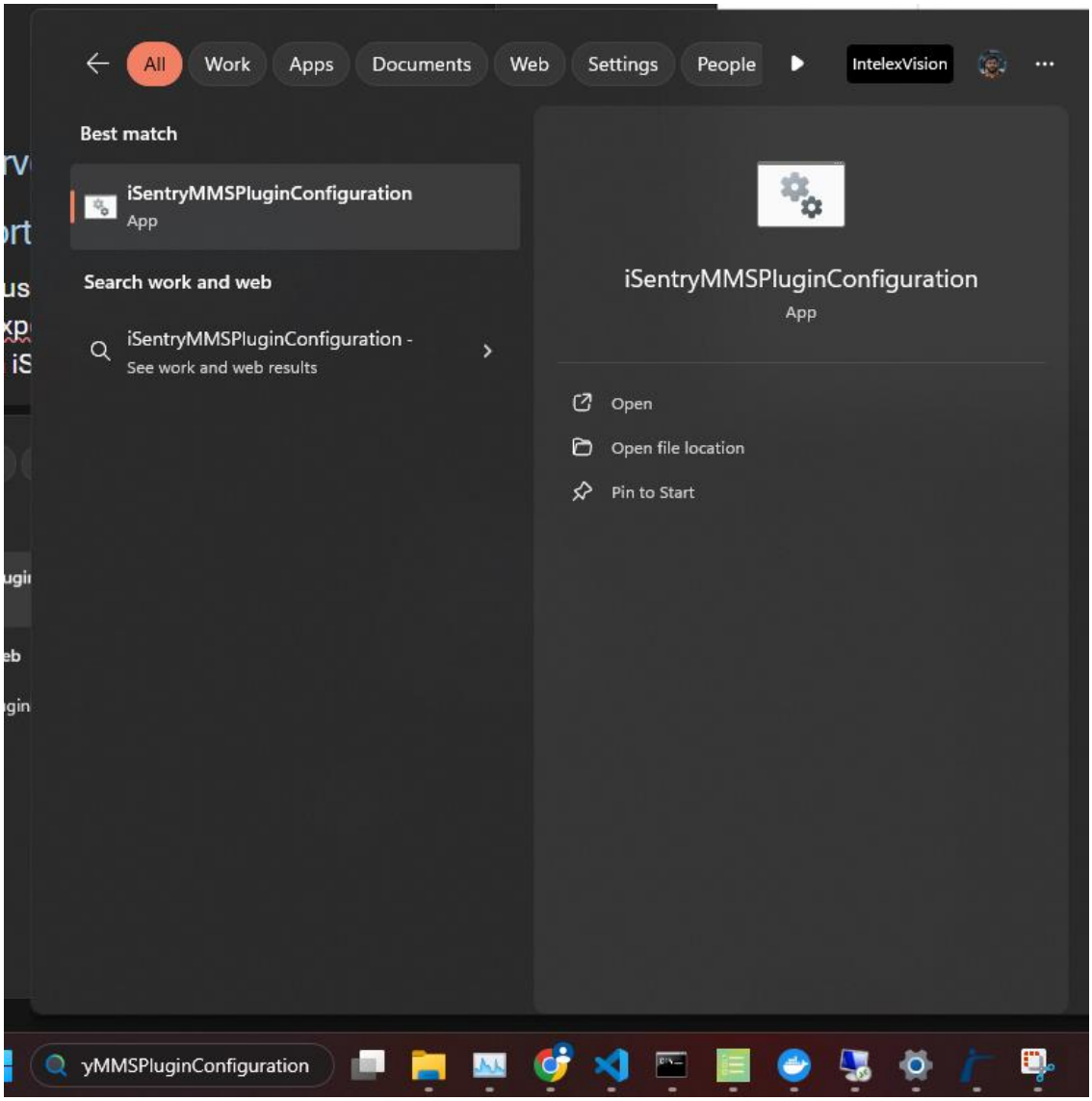
After that, all events accosiated with your rules will be registered in the system, and iSentryMMS Monitor will display the bookmark.



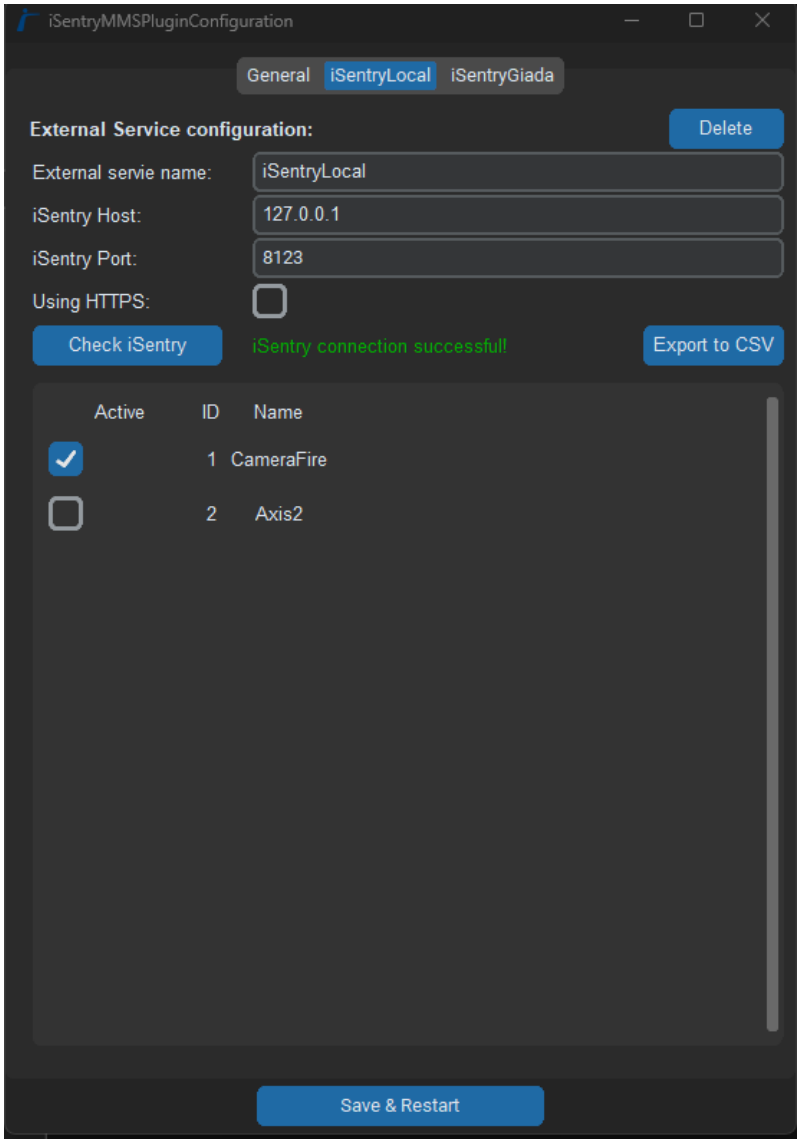
4.3. iSentry Server

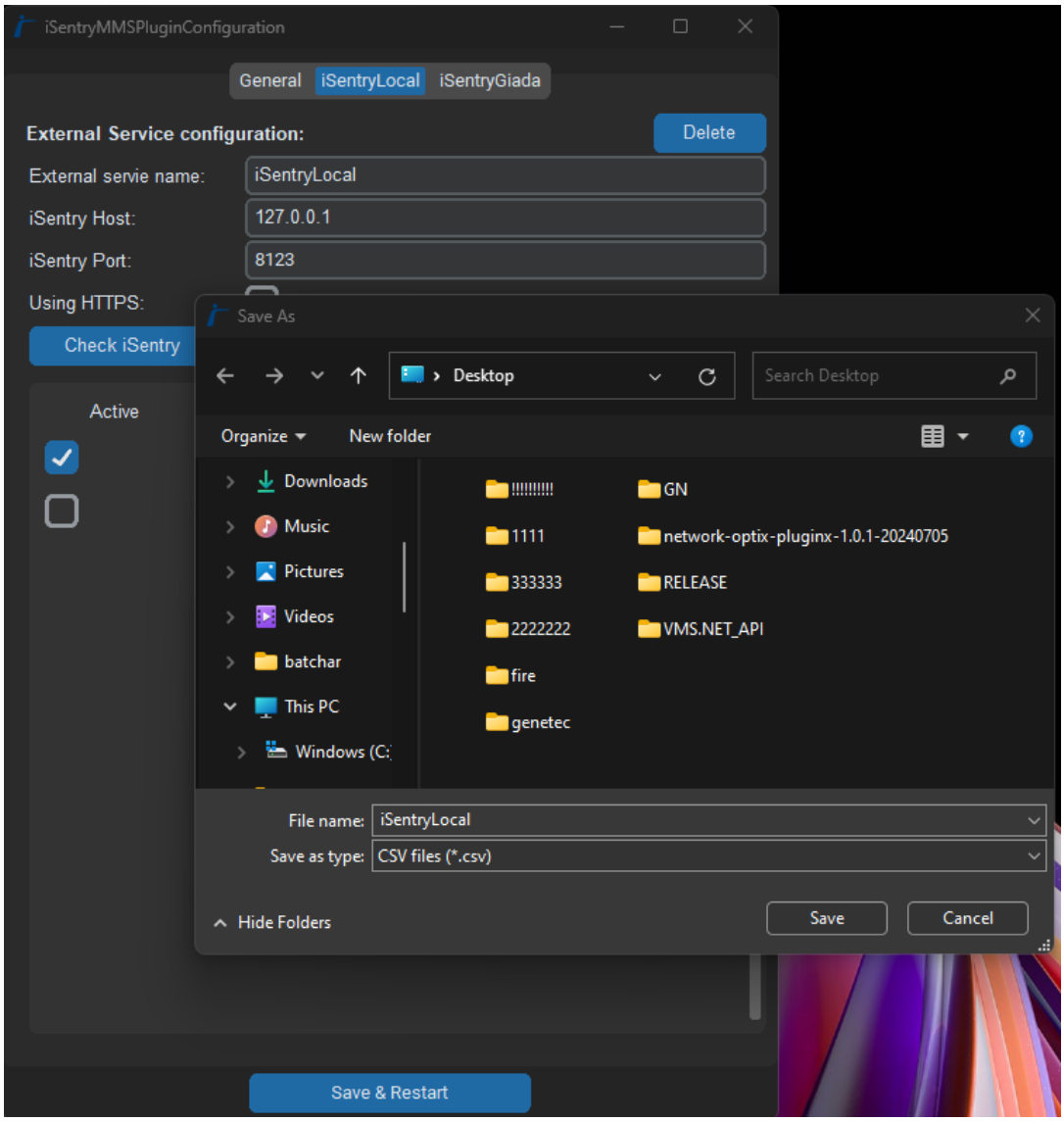
4.3.1. Importing camera settings

You can use the Windows search function to find the iSentryMMSPluginConfiguration tool. Using this tool, you can easily export all the cameras to the iSentry system from iSentryMMS.



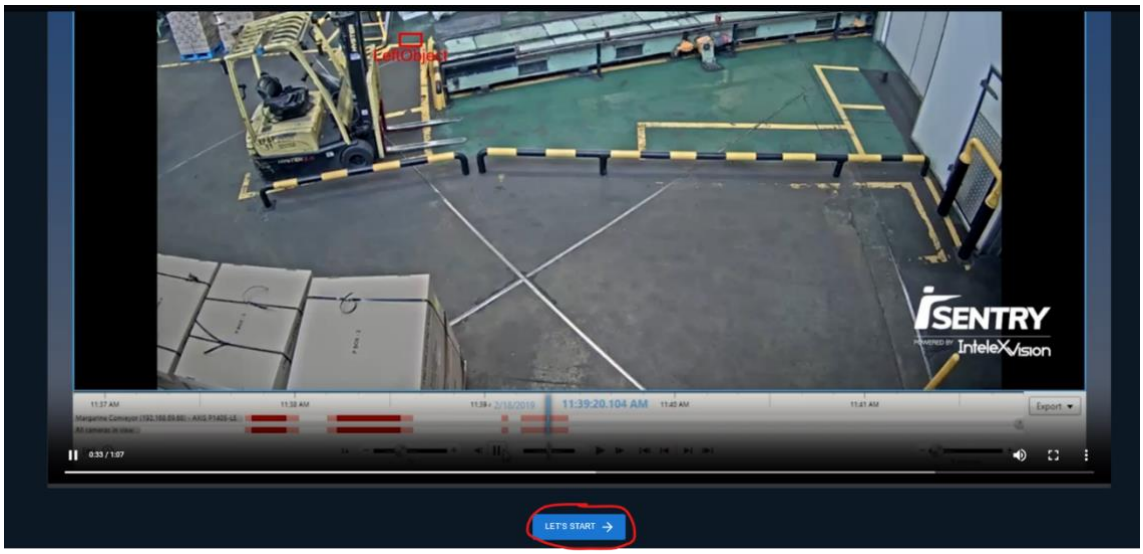
Using the iSentryMMSPluginConfiguration tool, you can set up external services for iSentryMMS, export data from iSentryMMS to a CSV file, and upload that file to the iSentry system. Select the iSentry server to which you will import the cameras, click the "Export to CSV" button, provide a filename, and click "Save".



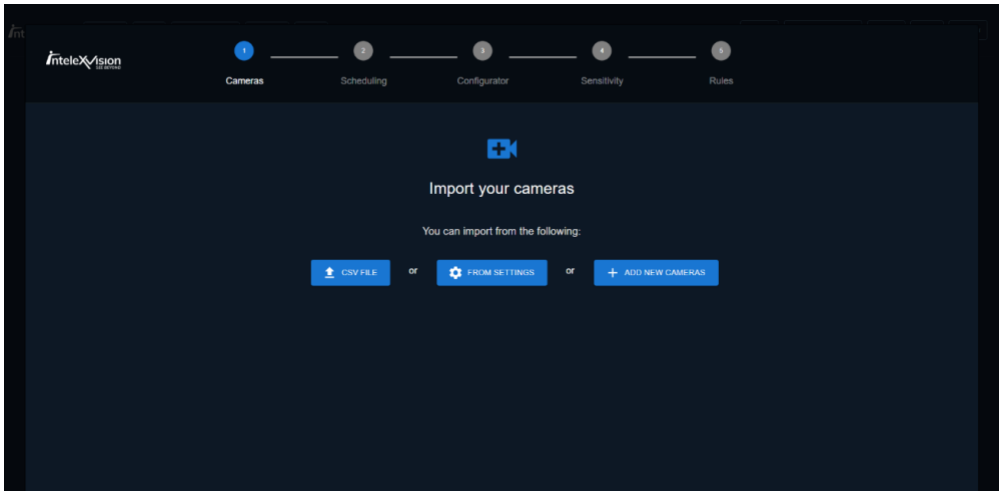

iSentryMMSPluginConfiguration
General
iSentryLocal
iSentryGiada
External Service configuration:
Delete
External servie name:
iSentryLocal
iSentry Host:
127.0.0.1
iSentry Port:
8123
Using HTTPS:
Check iSentry
Active
Save As
Desktop
Search Desktop
Organize
New folder
Downloads
Music
Pictures
Videos
batchar
This PC
Windows (C:
!!!!!!!!!
1111
333333
2222222
fire
genetec
GN
network-optix-pluginx-1.0.1-20240705
RELEASE
VMS.NET_API
File name:
iSentryLocal
Save as type:
CSV files (*.csv)
Hide Folders
Save
Cancel
Save & Restart

After that, open the iSentry website, click on the "Start Camera Wizard Setup" button in the iSentry Web settings, and follow the steps to complete the setup process.

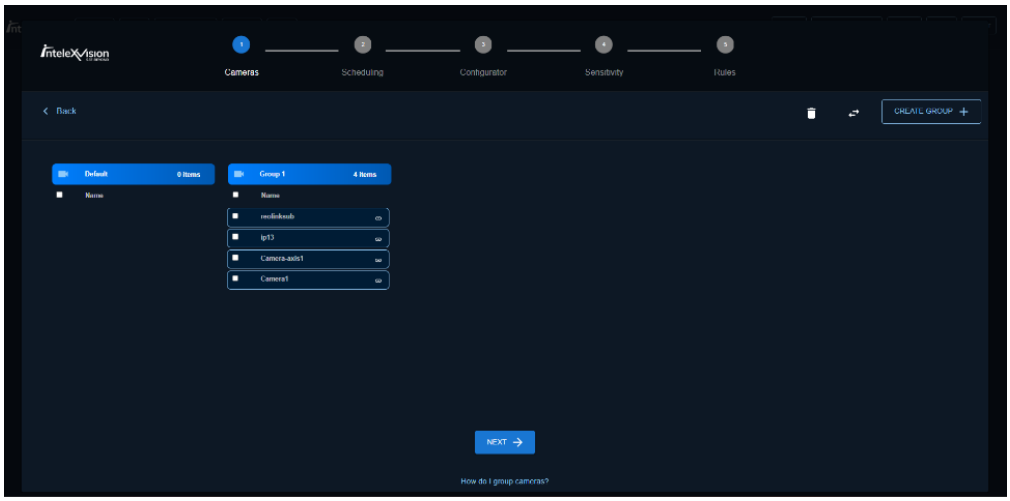
Select “LET’S START” button

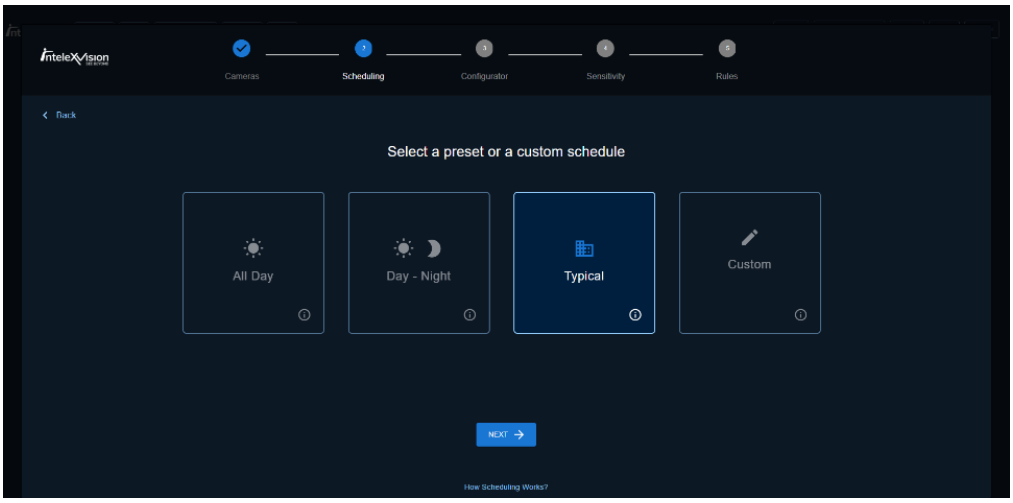


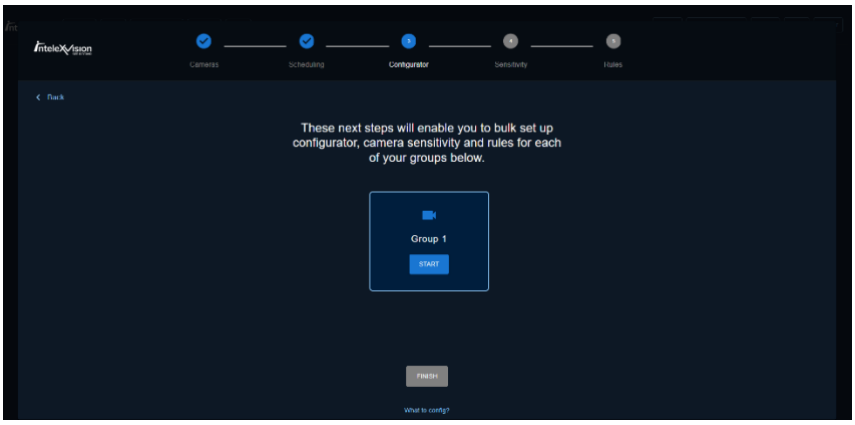
You need to load the generated CSV file.



And then follow all the steps.







To learn more about this topic, please refer to Chapter 4.0 "Camera Wizard Setup" of the iSentry Web Setting documentation.

After configuring the camera, you will also need to set up escalated events in Section 3.2.1, "Alert Actions" in the "Web Settings User Manual". These settings will determine which types of events should be sent to external systems, such as the iSentryMMS. By default, only escalated events will be sent to this iSentryMMS. If you want to receive all events, you can change the value of "Save Only Escalated" in the iSentryMMS Plugin configuration file to false (refer to “4.3.2 Install the standard iSentryMMS Plugin”).

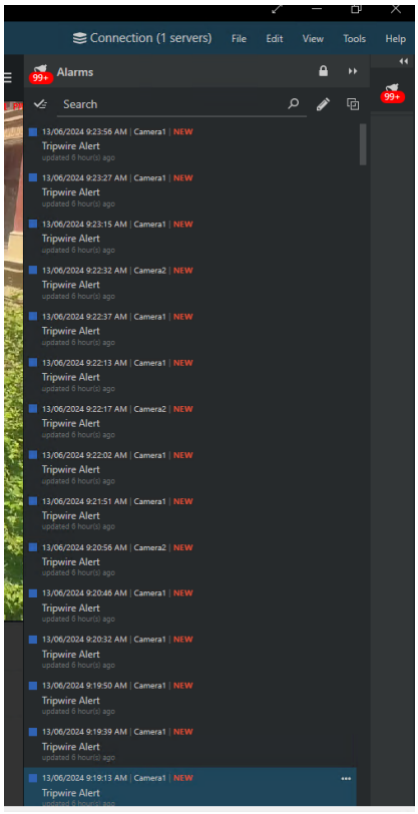
4.4. iSentry Web Client

To configure the iSentry web client, please refer to section "3.4.3 Integrators Management" in the documentation "Web Settings User Manual". However, you should change the default 8080 frontend port, because this port number is used by iSentryMMS as an HTTP API port.

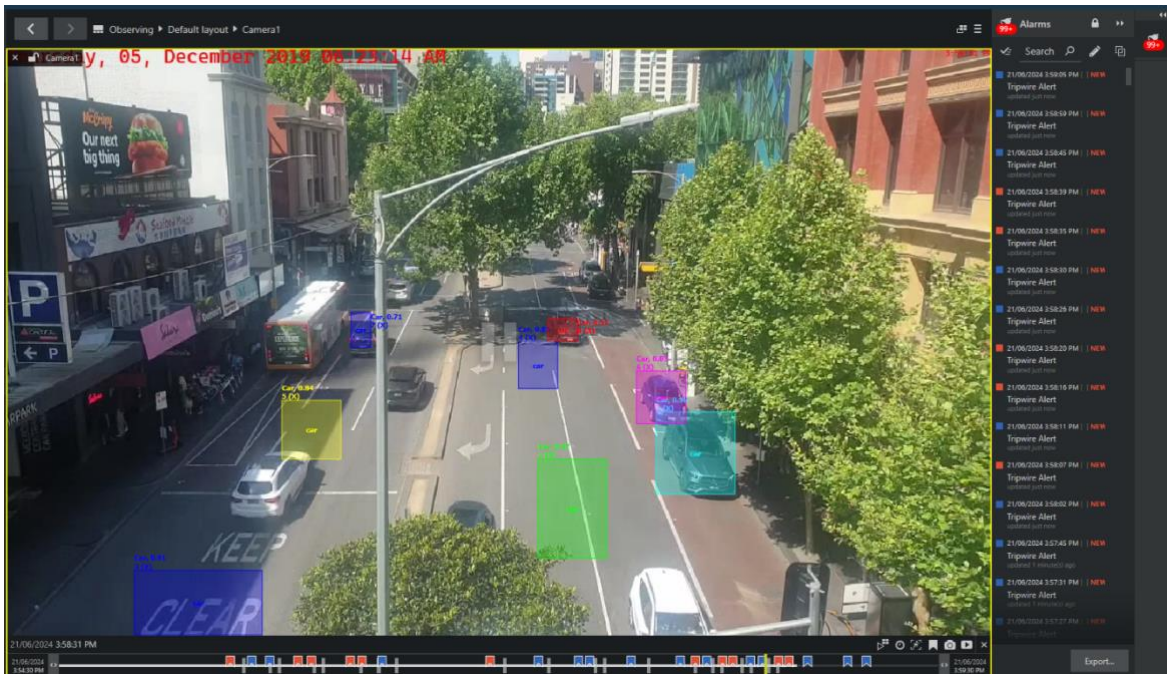
4.5. How to view alert on iSentryMMS Monitor

To view events in iSentryMMS, click on the events button in the top right corner of the program.

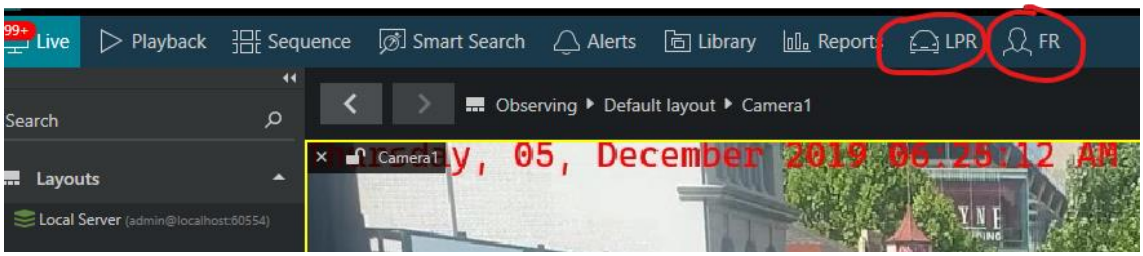
The events panel will be opened.



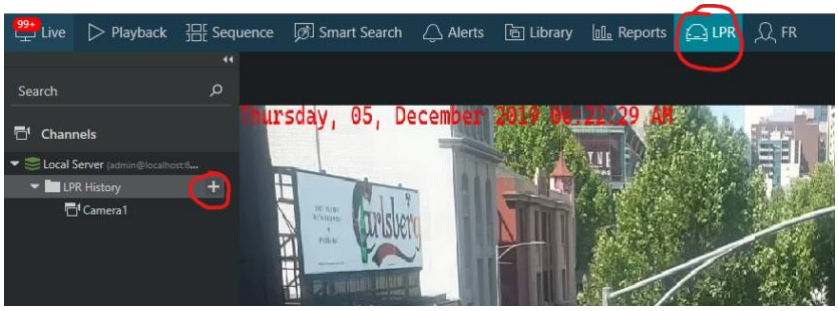
By clicking on an event, you can see the events on the timeline.



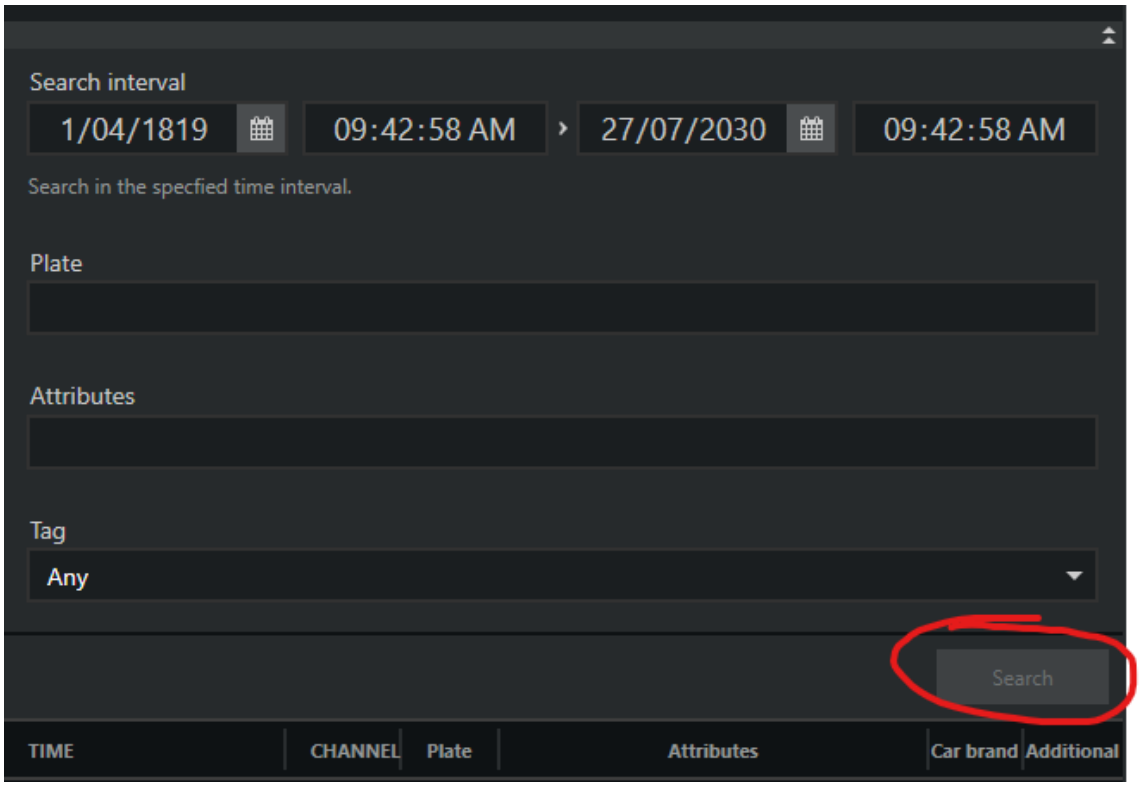
If the system detects any faces or license plate numbers, these sections will appear at the top of the page: LPR and Faces.



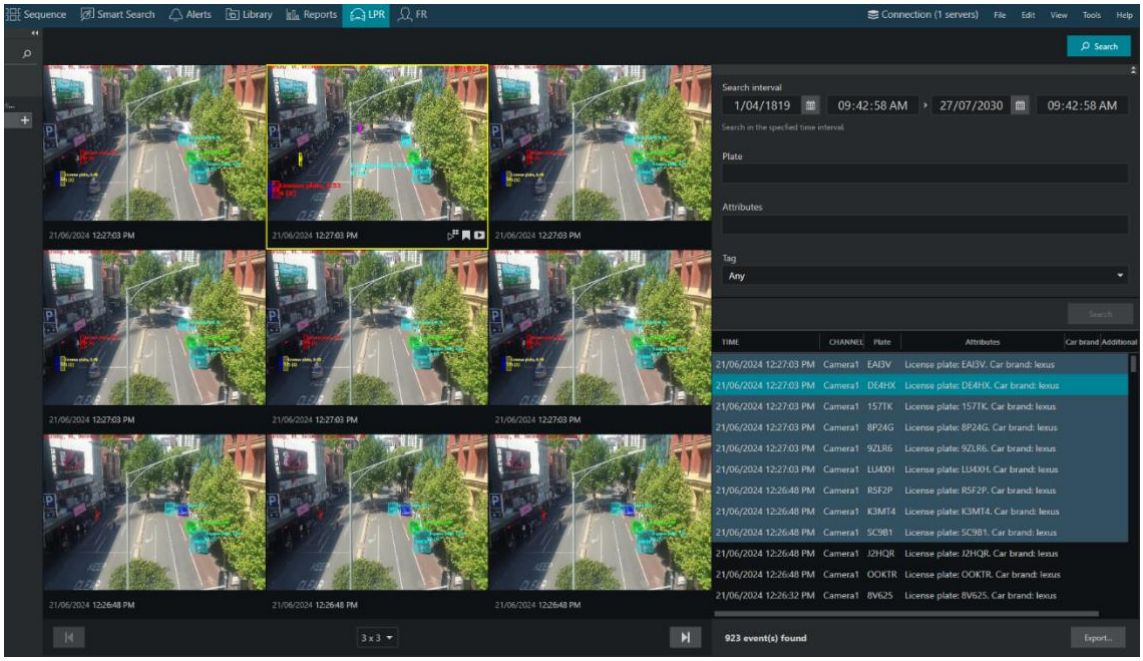
You will need to configure the view of the LPR or faces. This operation needs to be done for the LPR and face sections. To do this, open the section and click on the plus button in the left top menu.



After that, click on the search button on the right side of the page to events.



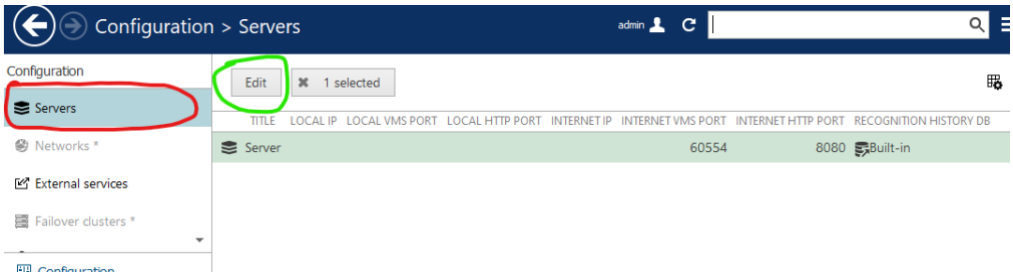
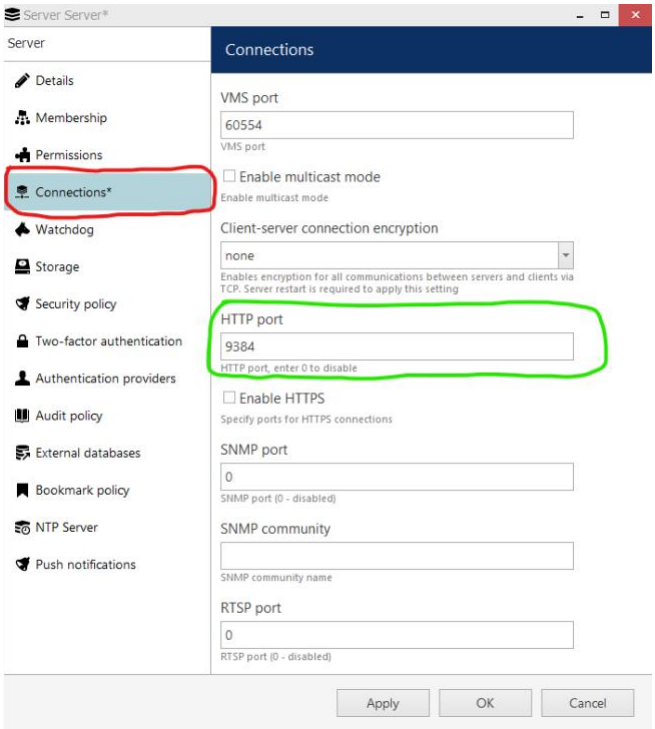
Here you can see a list of events.



5. Advanced Configuration

5.1. Change default iSentryMMS HTTP API port number.

To prevent potential port conflicts, we strongly recommend changing the iSentryMMS API port. By default, ISentryMMS uses port 8080 for public HTTP API, which can sometimes cause conflicts. Changing the port can help avoid these conflicts. To do this, open the iSentryMMS Console and select the servers in the left menu. Select the server and click the "Edit" button.



In the modal windows select “Connections” item and change the HTTP port value from 8080 to any free port number. After making the changes, click on the "OK" button.