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Milestone XProtect VMS Integration Guide

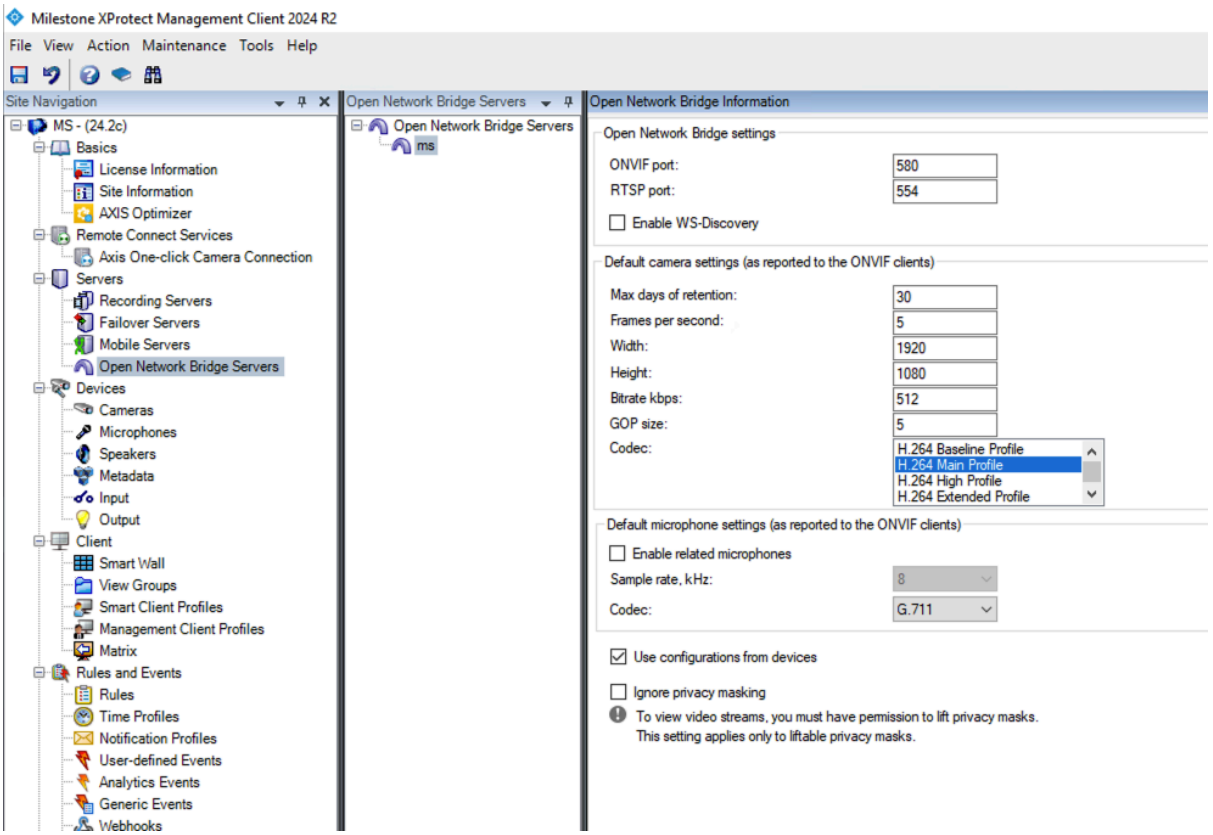
Milestone XProtect VMS Integration Guide

This document aims to show and guide the steps for integrating Icetana AI with Milestone XProtect VMS.

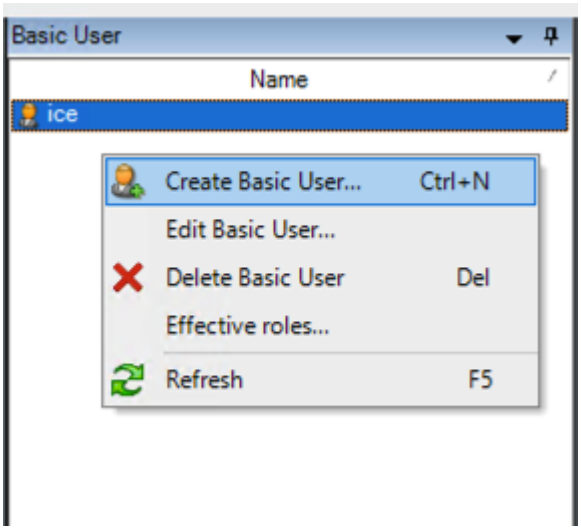
Preparing XProtect VMS

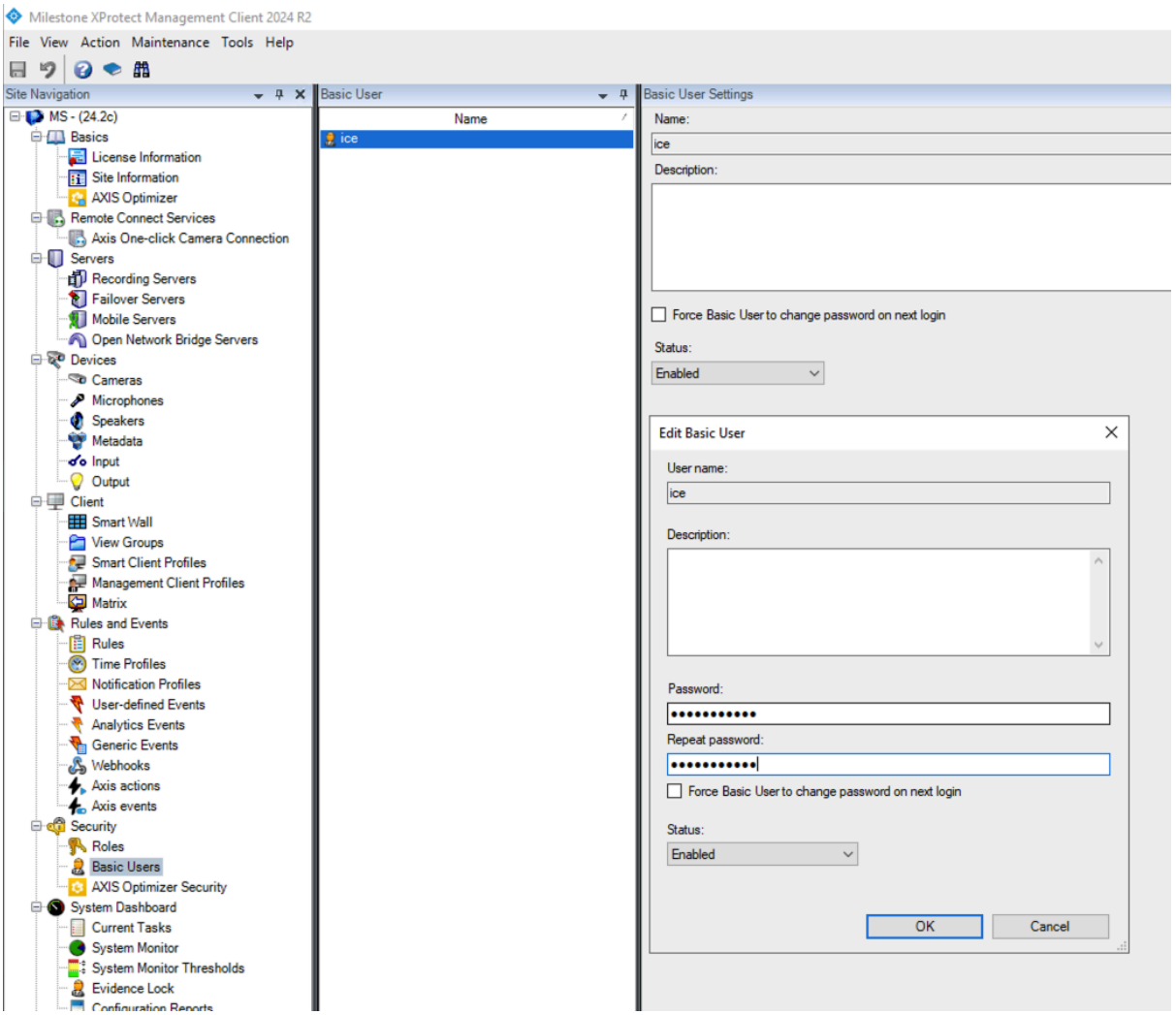
Certain steps should be performed on XProtect VMS in preparation for Icetana AI connection. Below you will find required steps.

1) Milestone Open Network Bridge must be installed within the Milestone XProtect VMS.



2) Create a user for Icetana AI connection. The user type must be a ‘Basic’ user.

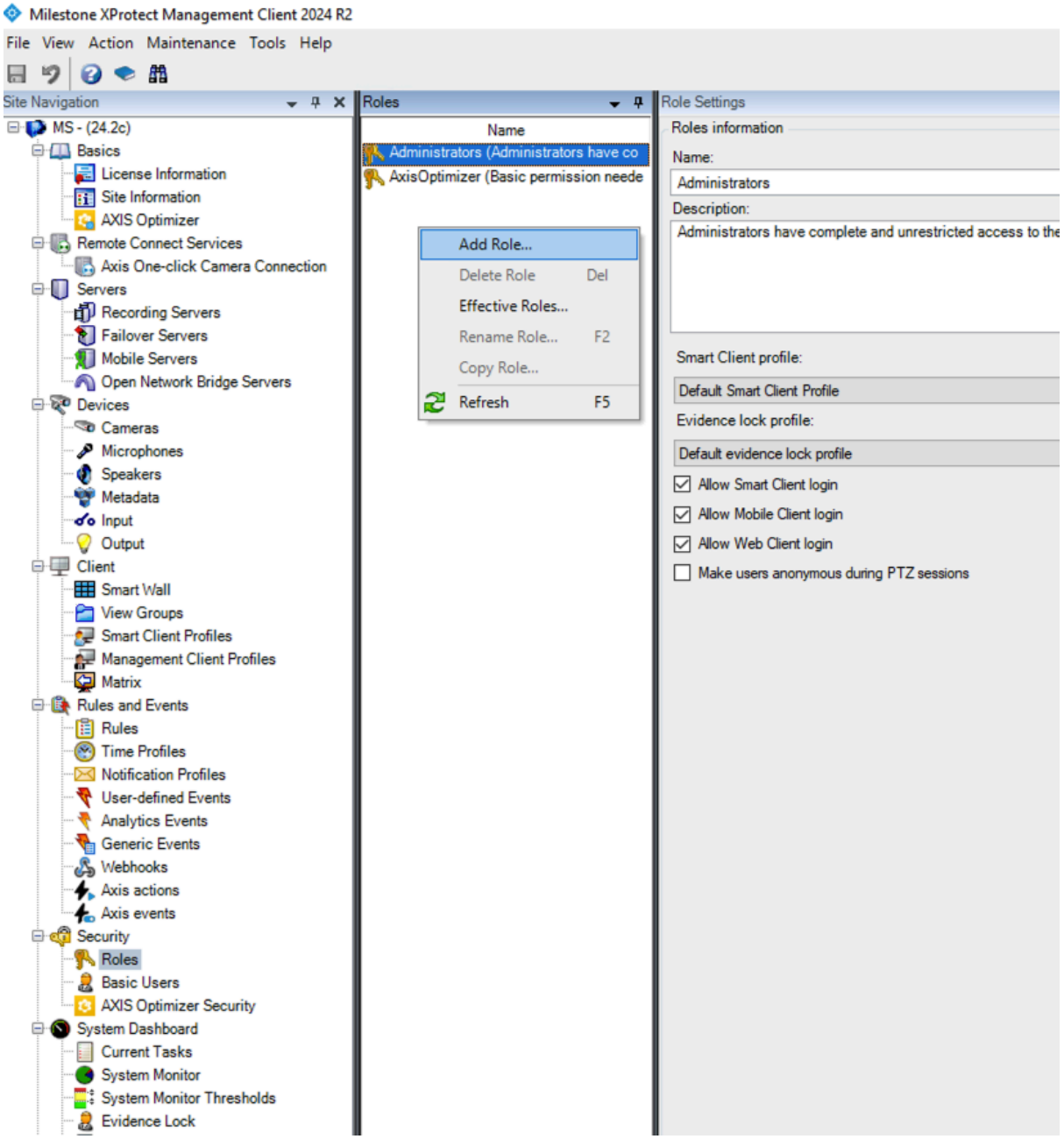


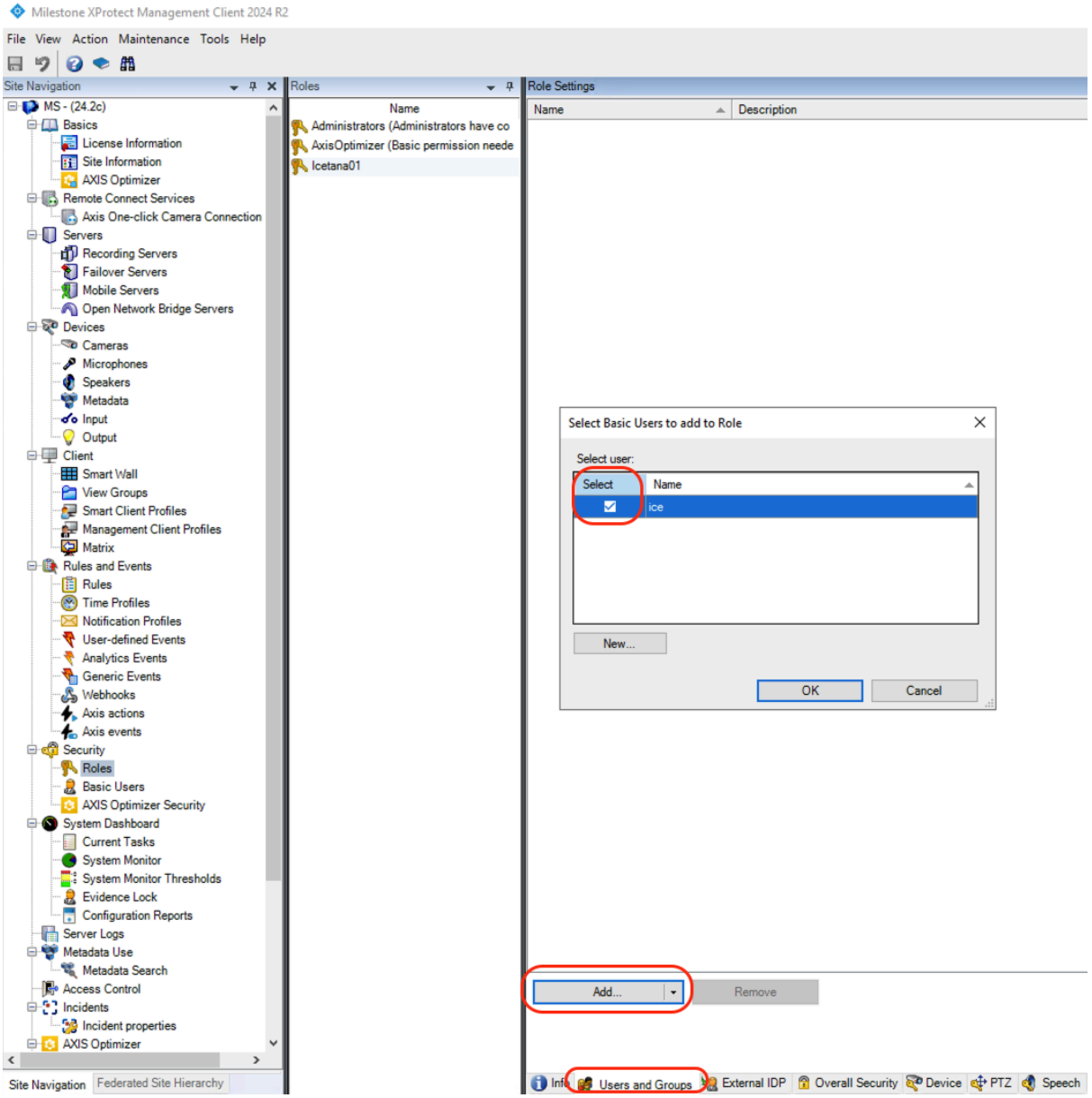


3) Create a new Role and assign required permissions.

Note: If the Icetana AI user is assigned to the Administrators group, there is no need to create a new group. This is applicable only if the Icetana AI system has one server.

- If multiple Icetana AI servers are part of the same instance, each server must have its own dedicated Basic user and Role created. For each Role permissions must be set to access certain cameras to distribute the load. Please refer to the project HW BoM calculation.




Milestone XProtect Management Client 2024 R2
File View Action Maintenance Tools Help
Site Navigation
MS - (24.2c)
Basics
License Information
Site Information
AXIS Optimizer
Remote Connect Services
Axis One-click Camera Connection
Servers
Recording Servers
Failover Servers
Mobile Servers
Open Network Bridge Servers
Devices
Cameras
Microphones
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Metadata Search
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Incident properties
AXIS Optimizer
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Role Settings
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Select Basic Users to add to Role
Select user:
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New...
OK
Cancel
Add...
Remove
Info
Users and Groups
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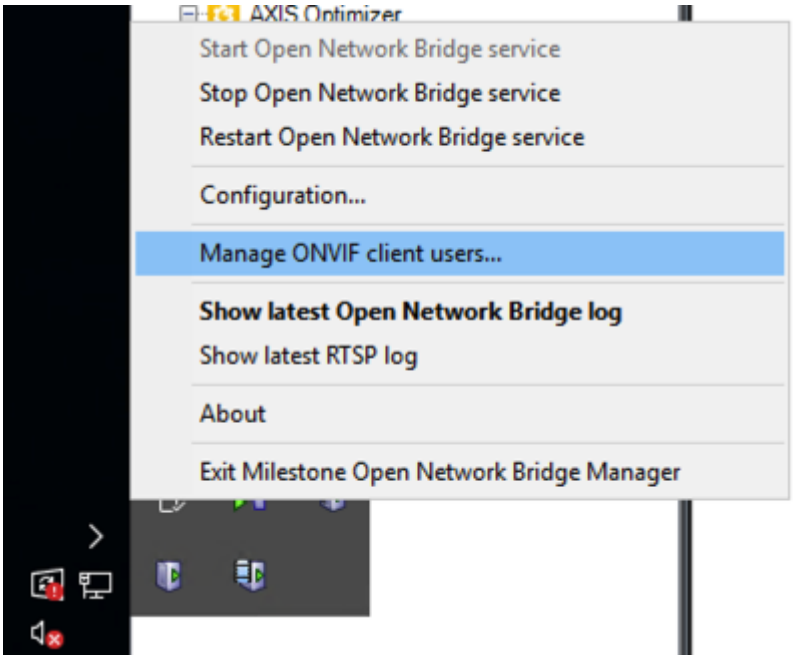
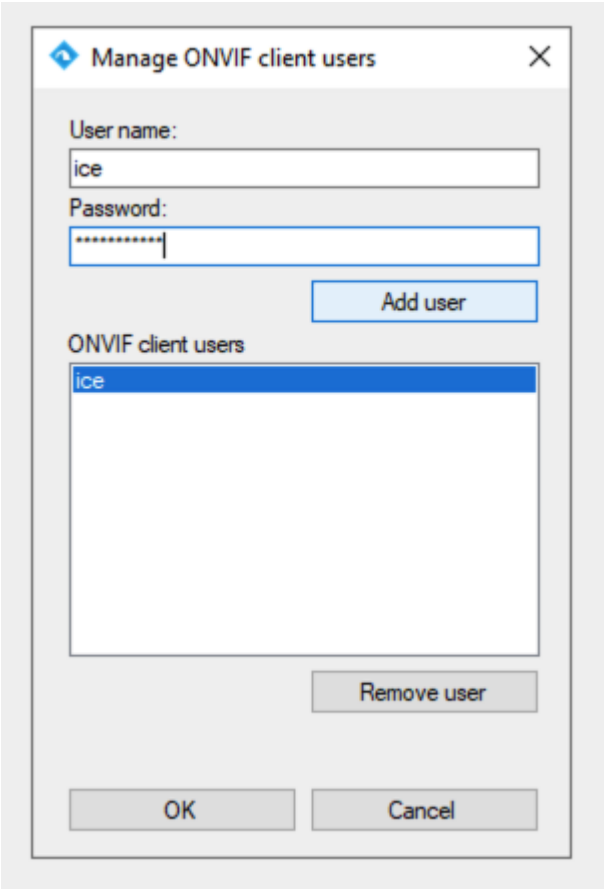
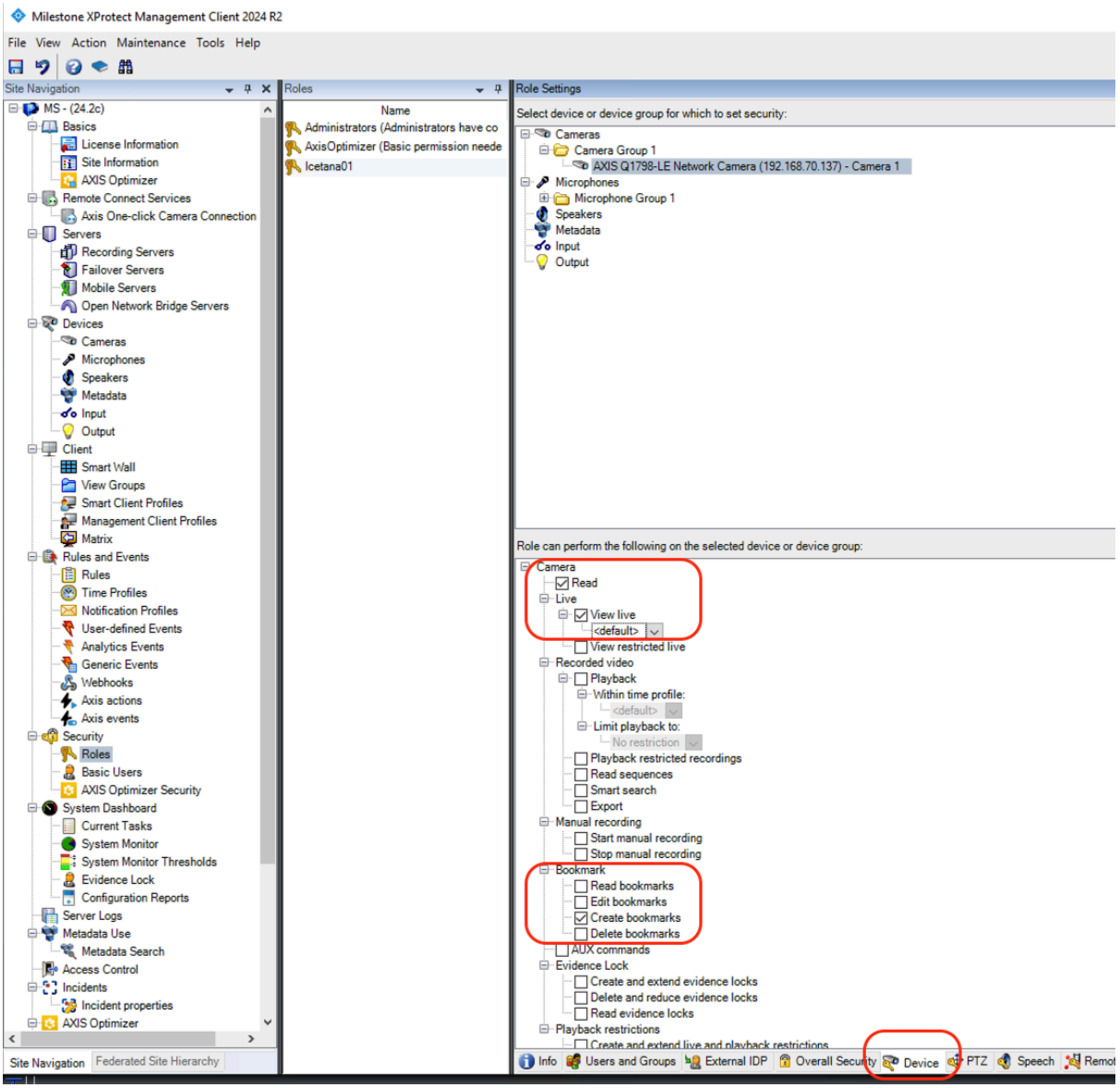
PTZ
Speech

4) Add Icetana AI Basic user to the Milestone Open Network Bridge.

Access to the server hosting Milestone Open Network Bridge, right click to the Network Bridge icon in the Windows Tray, select the option 'Manage ONVIF client users', enter the exact same username and password for the Icetana AI Basic user created in the *Step 2*, follow with Add user and OK buttons.



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Configuration Reports
Server Logs
Metadata Use
Metadata Search
Access Control
Incidents
Incident properties
AXIS Optimizer
Site Navigation
Federated Site Hierarchy
Roles
Name
Administrators (Administrators have co
AxisOptimizer (Basic permission neede
Icetana01
Role Settings
Select device or device group for which to set security:
Cameras
Camera Group 1
AXIS Q1798-LE Network Camera (192.168.70.137) - Camera 1
Microphones
Microphone Group 1
Speakers
Metadata
Input
Output
Role can perform the following on the selected device or device group:
Camera
Read
Live
View live
<default>
View restricted live
Recorded video
Playback
Within time profile:
<default>
Limit playback to:
No restriction
Playback restricted recordings
Read sequences
Smart search
Export
Manual recording
Start manual recording
Stop manual recording
Bookmark
Read bookmarks
Edit bookmarks
Create bookmarks
Delete bookmarks
AUX commands
Evidence Lock
Create and extend evidence locks
Delete and reduce evidence locks
Read evidence locks
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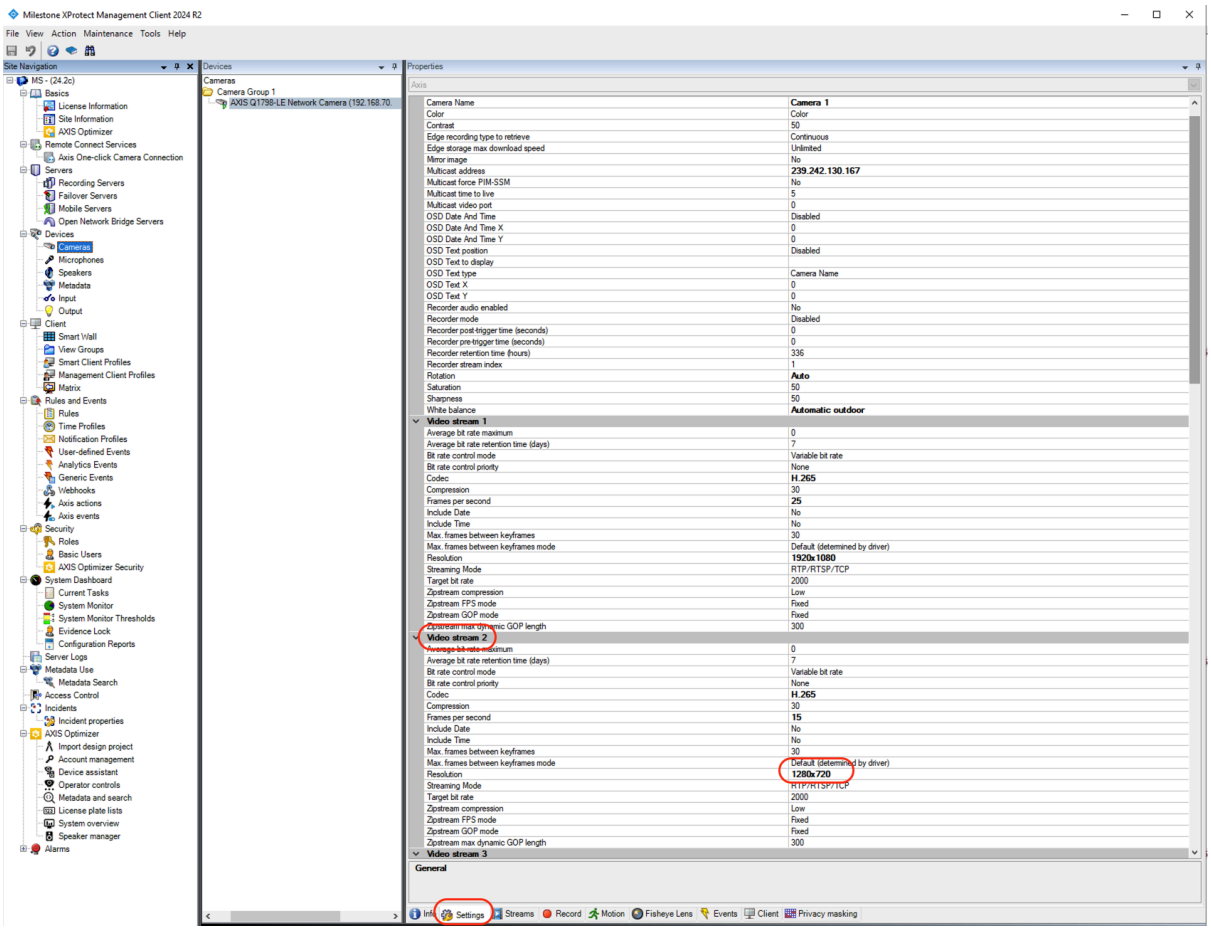
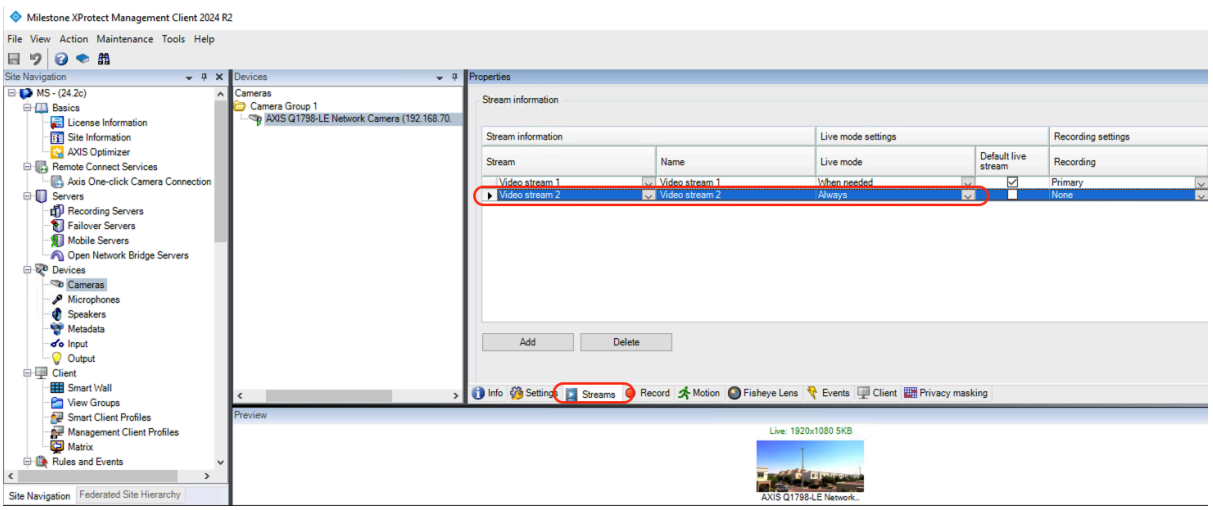
5) (Optional but highly recommended)Configure a second stream for Icetana AI.

Icetana AI server(s) resources are utilised most efficiently when camera resolutions are set based on the intended application:

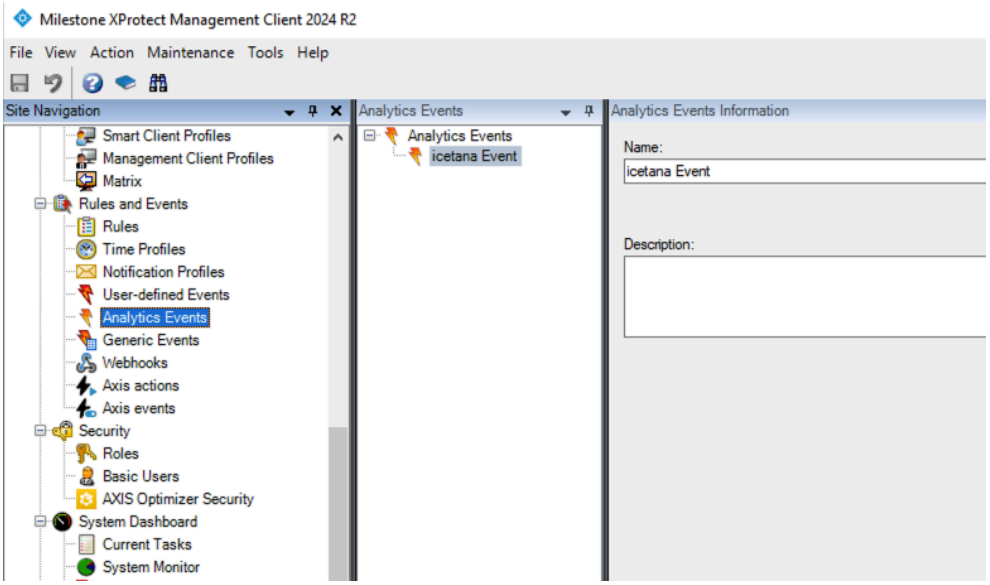
- Safety and Security product: 720P
- Facial Recognition product: 4MP
- Licence Plate Recognition product: 1080P



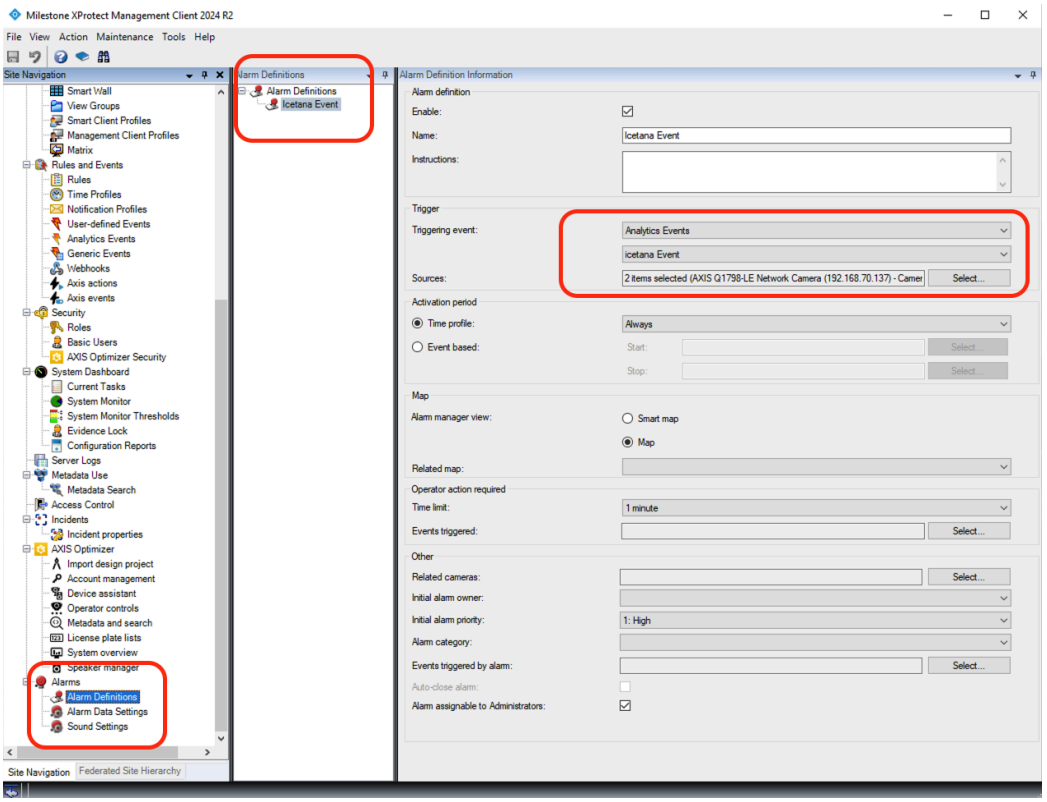


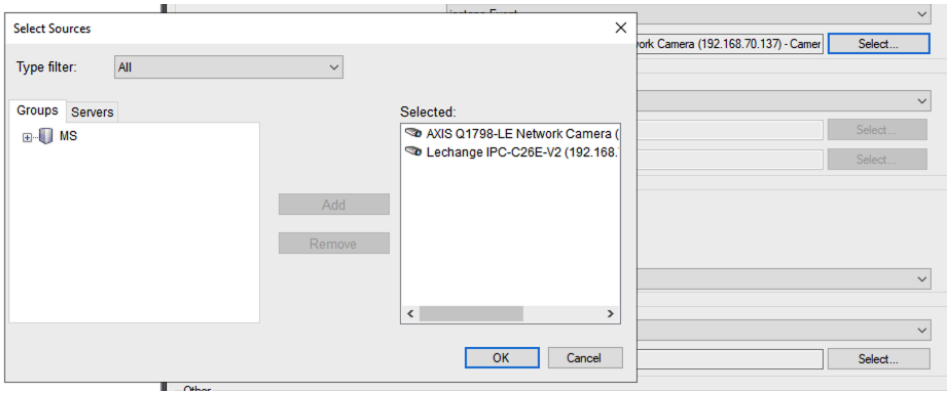
6) Propagating Icetana AI events as Alarms into Milestone Alarm Manager

- Create an Analytic Event from Milestone Management client. Name of the Analytic event must be in the following format: *icetana Event*

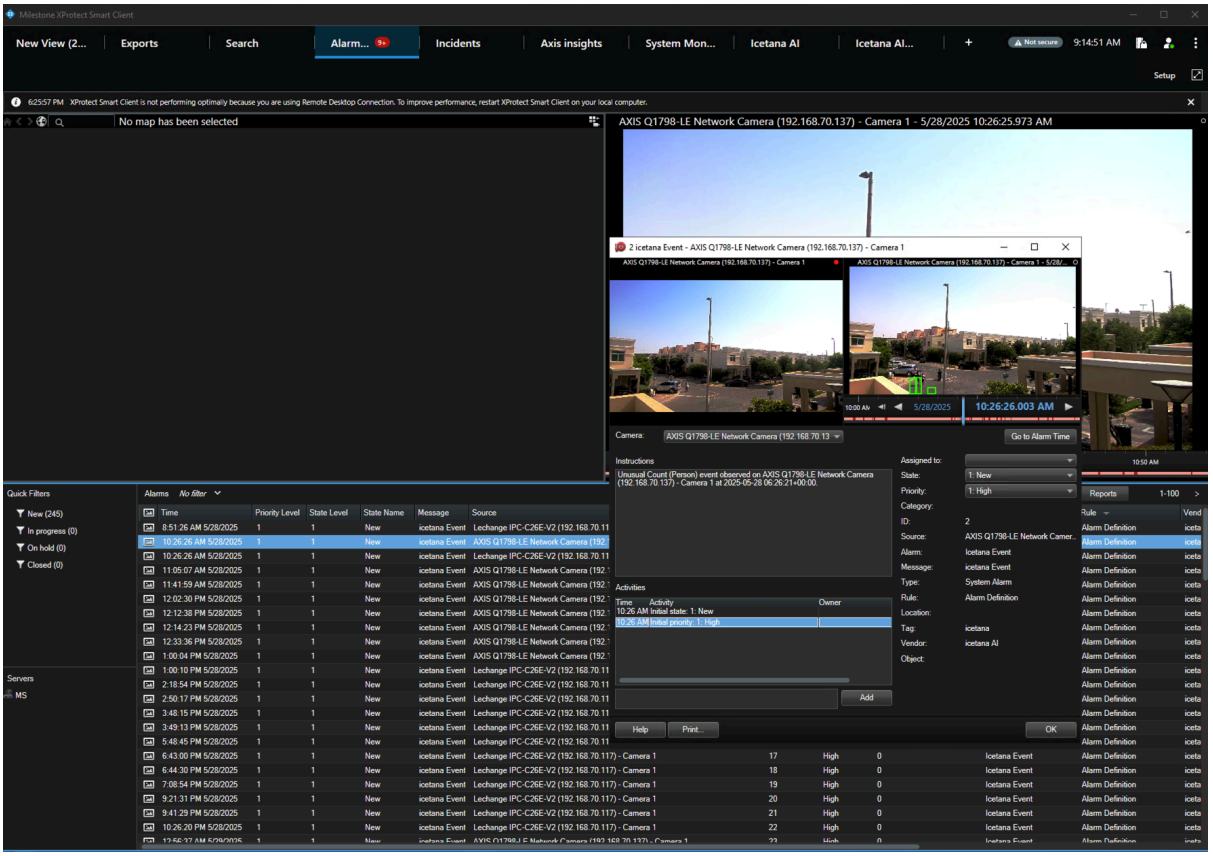


- Create an Alarm Definition linking Analytic Event to the Cameras





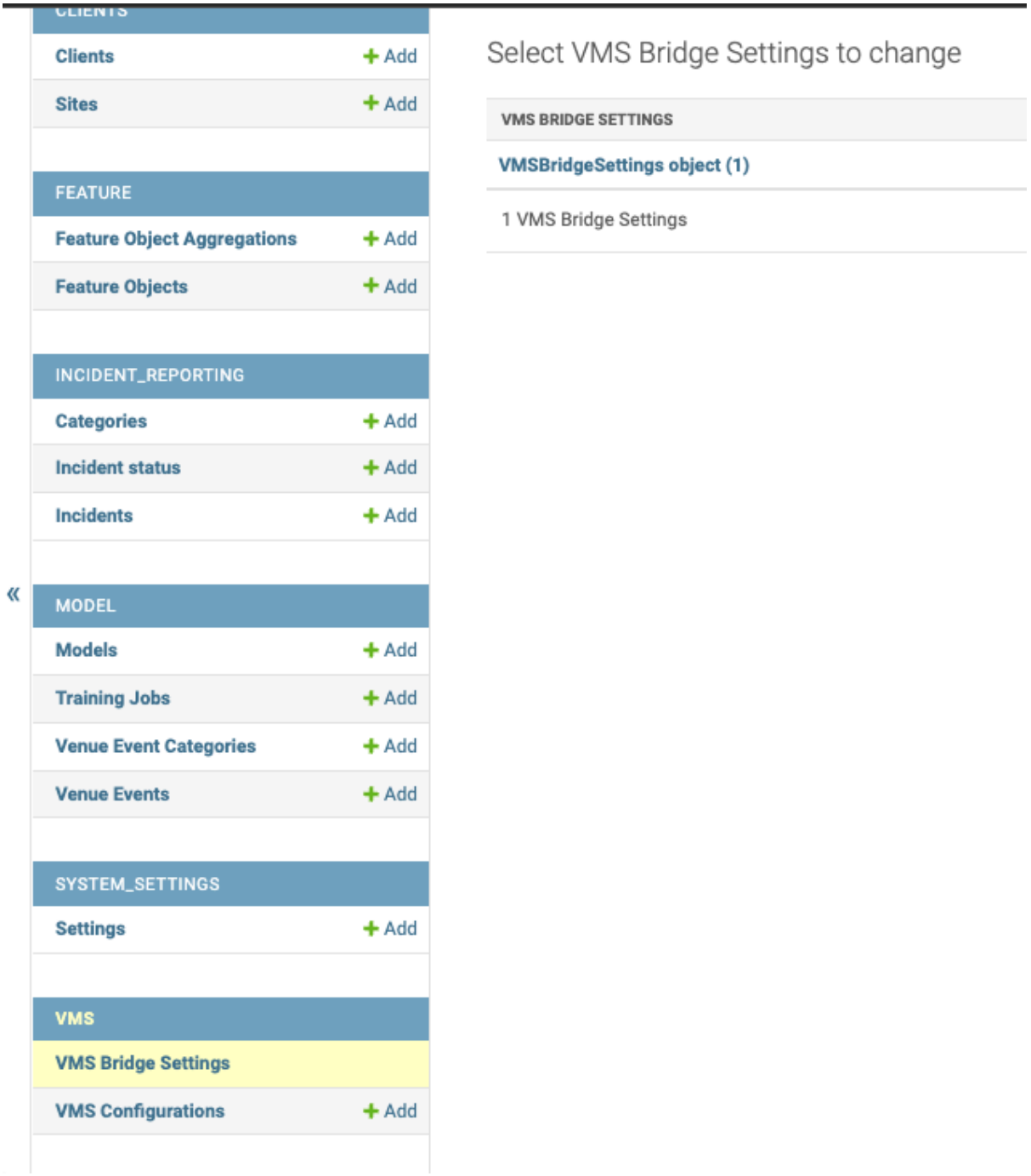
- Alarms will be triggered and displayed in the Milestone XProtect Smart Client, under Alarm Manager tab



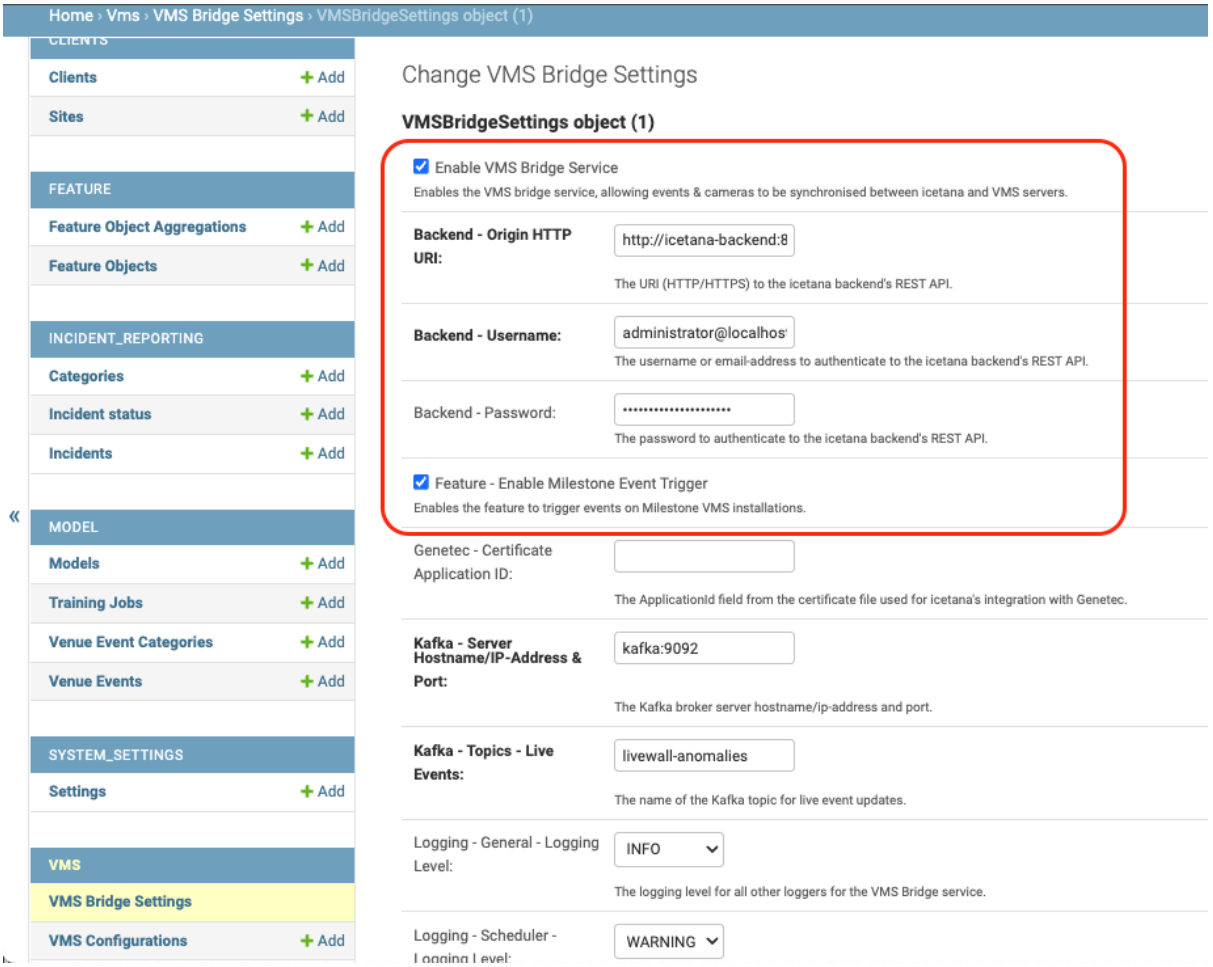
Icetana AI Configuration

1) Configure Icetana VMS Bridge if previously not configured.

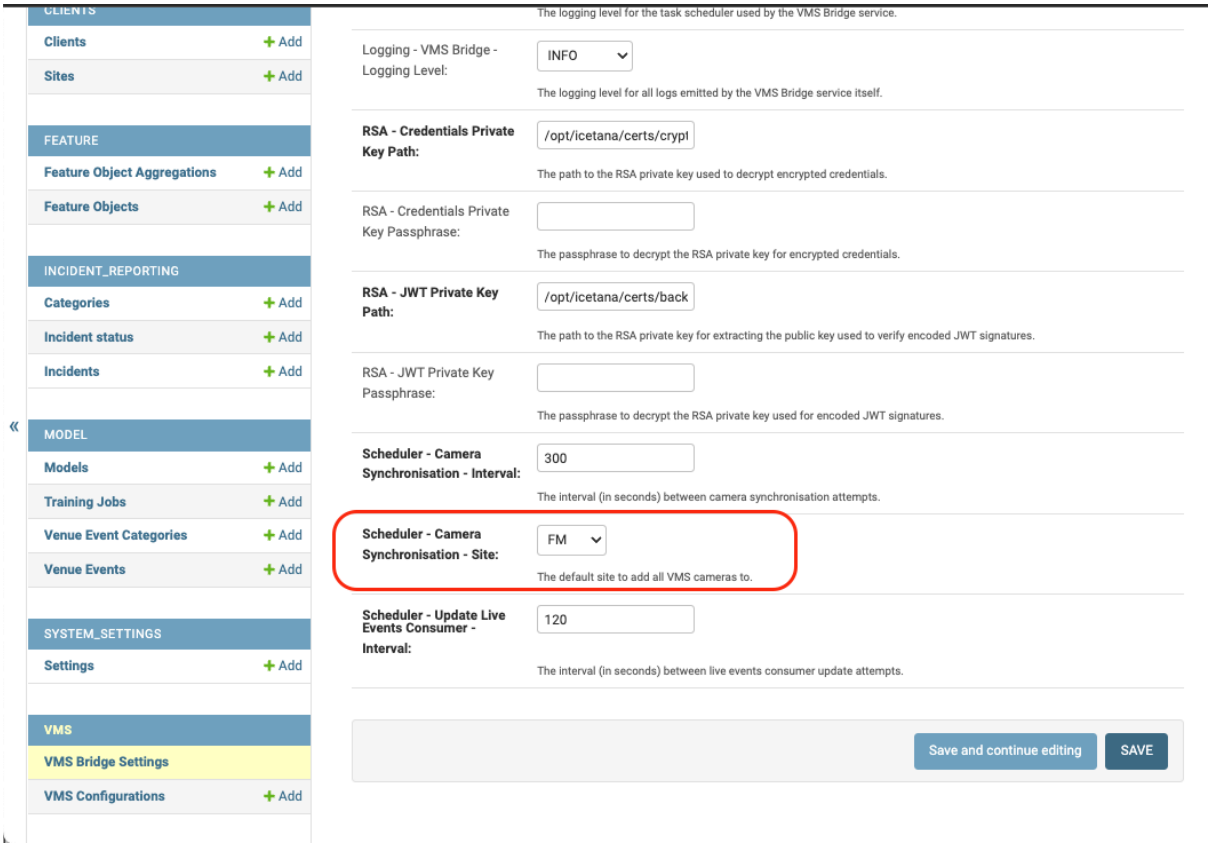
- Navigate to https://<icetanaServer>/admin and log in using Icetana AI credentials
- Scroll down to the VMS section, select VMS Bridge Settings and go inside the VMS Bridge Object



- Select the checkbox for Enable VMS Bridge Service
- Enter the Icetana Credentials in the Backend - Username and Password fields.
- Select the checkbox for 'Feature - Enable Milestone Event Trigger' to enable Icetana AI to create Bookmarks and Analytic Events in Milestone XProtect VMS

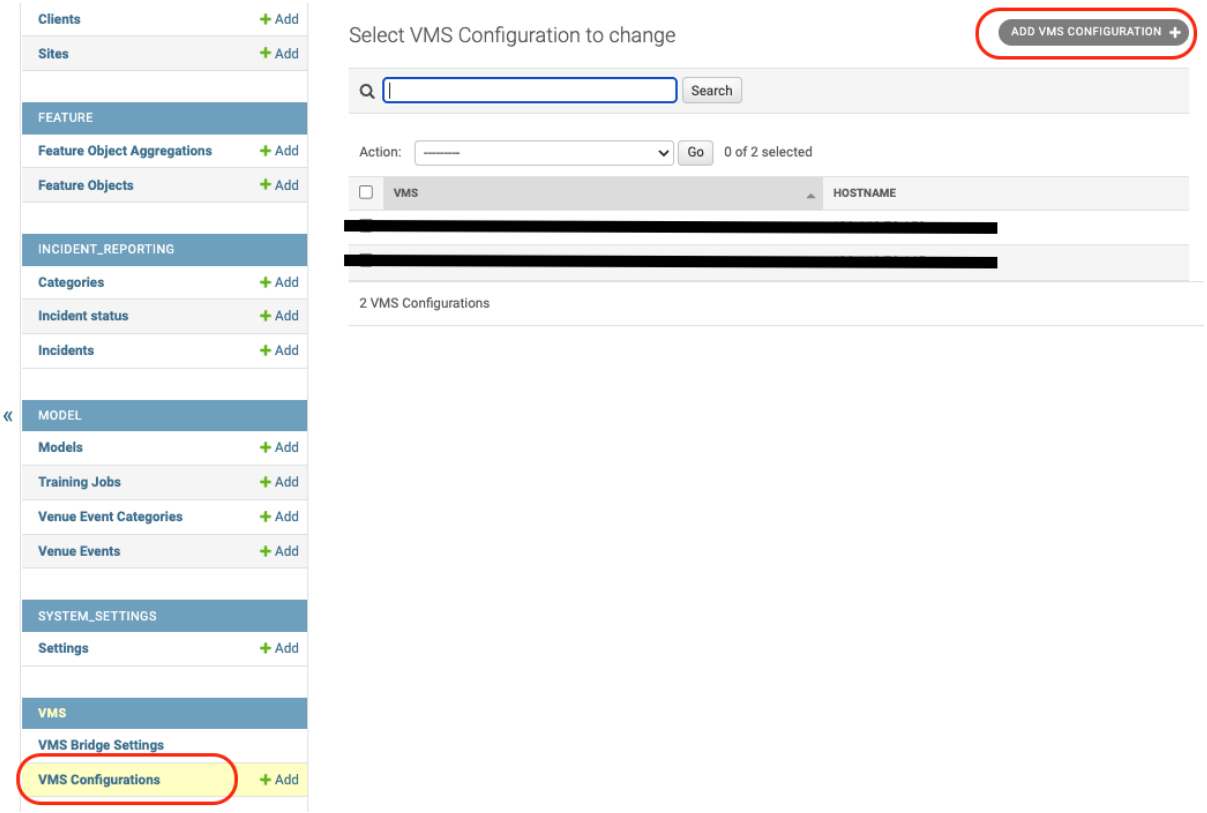


- Select the site where cameras will be populated from the Scheduler - Camera Synchronisation - Site: field.
- Select Save from the bottom

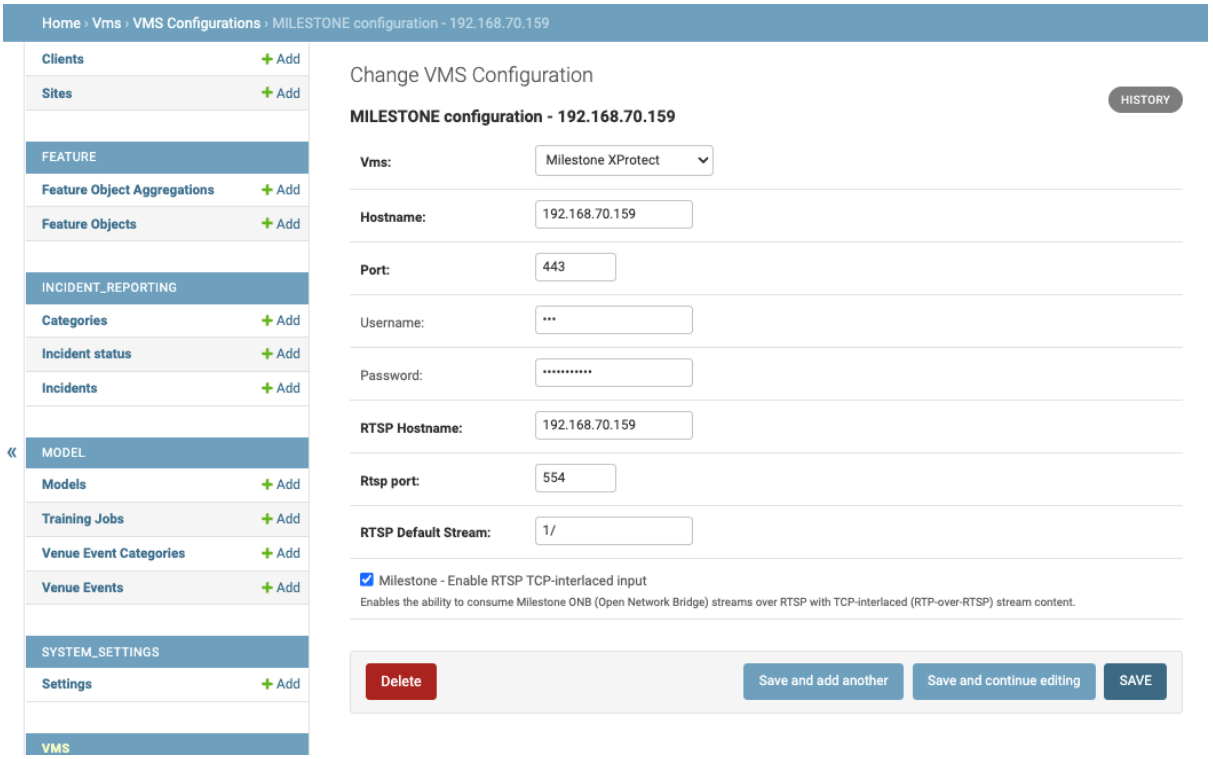


2) Create VMS object for Milestone XProtect VMS

- Navigate to https://<icetanaServer>/admin and log in using icetana credentials
- Scroll down to the VMS section, select VMS Configurations and add a new object



- Vms dropdown select Milestone XProtect
- Hostname: Hostname/IP of Milestone XProtect Management Server
- Port: Milestone XProtect Management Server port, default is 443
- Enter Username/Password created in the Milestone for Icetana: *Refer to the section: 'Preparing XProtect VMS'*
- RTSP Hostname: Milestone Open Network Bridge IP/Hostname
- RTSP Port: Milestone Open Network Bridge RTSP port, default 554
- RTSP Default Stream field: can have the following stream options 0/, 1/, 2/ etc. 0/ is the default profile and 1/ is the second stream profile. *Refer to the section: Configure a second stream for Icetana AI.*
- Select Save from the bottom



Note: When configuring the RTSP Default Stream, the trailing "/" at the end of the stream number is required for Milestone XProtect integration. If it is missing, the Stream will connect to the main stream without a warning.

Populating Cameras into Icetana AI

Once a new Icetana AI VMS Bridge is created and configured or an existing VMS configuration is changed following commands must be executed.

- SSH to the Icetana AI server and navigate to the scripts folder. ‘cd /opt/icetana/scripts/’
- Run the following command ‘sudo docker restart icetana-vms-bridge’
- Cameras should start populating in the Cameras section on the Icetana AI main GUI