

HOW TO

Integration guide for Milestone XProtect[®] and AXIS Object Analytics

January 2022

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Introduction

This document explains how to integrate AXIS Object Analytics events into Milestone XProtect®.

Axis takes no responsibility for how this configuration may affect your system. If the modification fails or if you get other unexpected results, you may have to restore the settings to default.

1 AXIS Object Analytics

1.1 Step 1 – Prepare AXIS Object Analytics

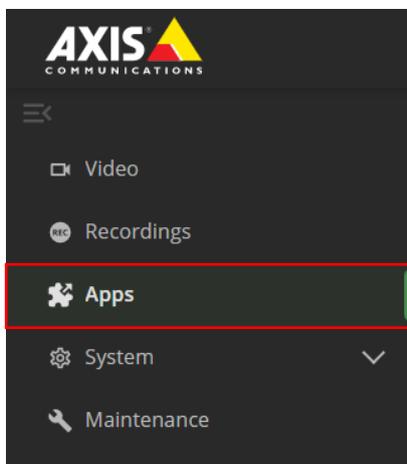
1. Make sure that the camera's firmware version is 10.2 or higher.
2. It is recommended to ensure that AXIS Object Analytics has been configured and running on the camera, before building out the rules in Milestone.

AXIS OS version 10.6.7

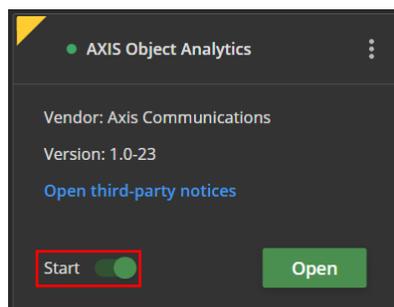
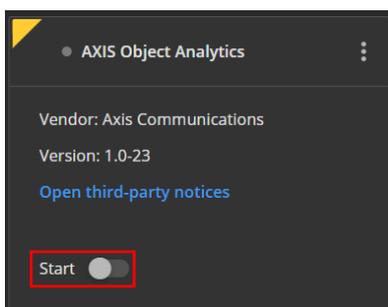
Web version 4.2.9.4

1.2 Step 2 – Enable AXIS Object Analytics on the camera

1. In a web browser, go to the camera's user interface.
2. Click Apps.

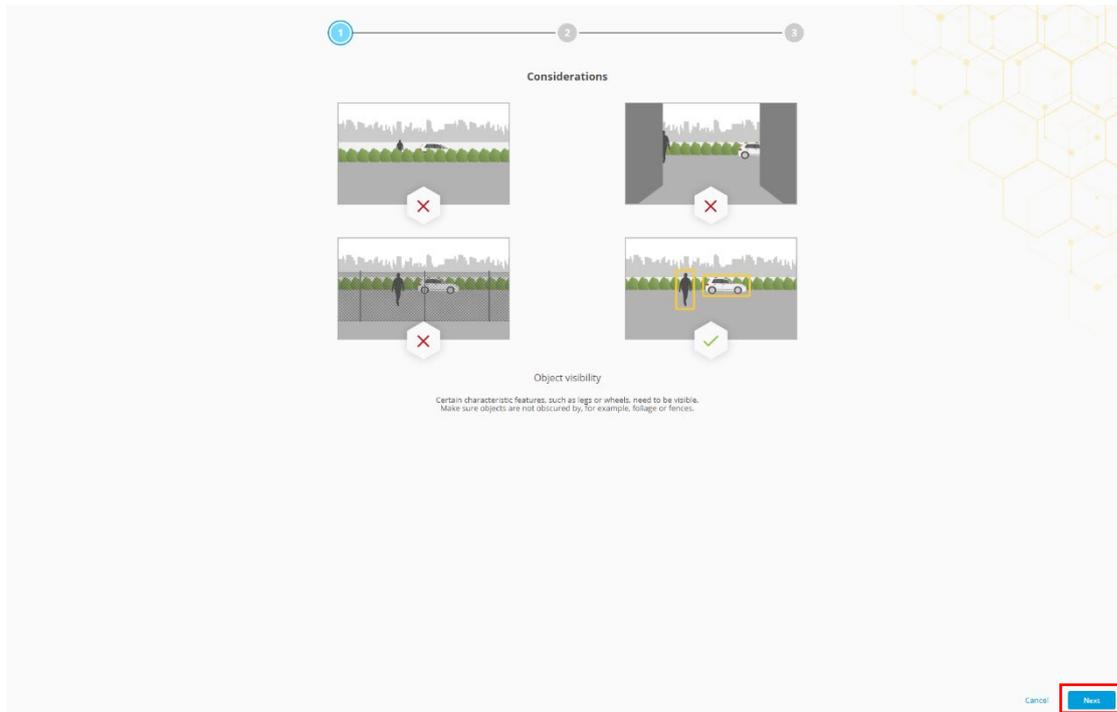


3. Start and open AXIS Object Analytics on the camera.

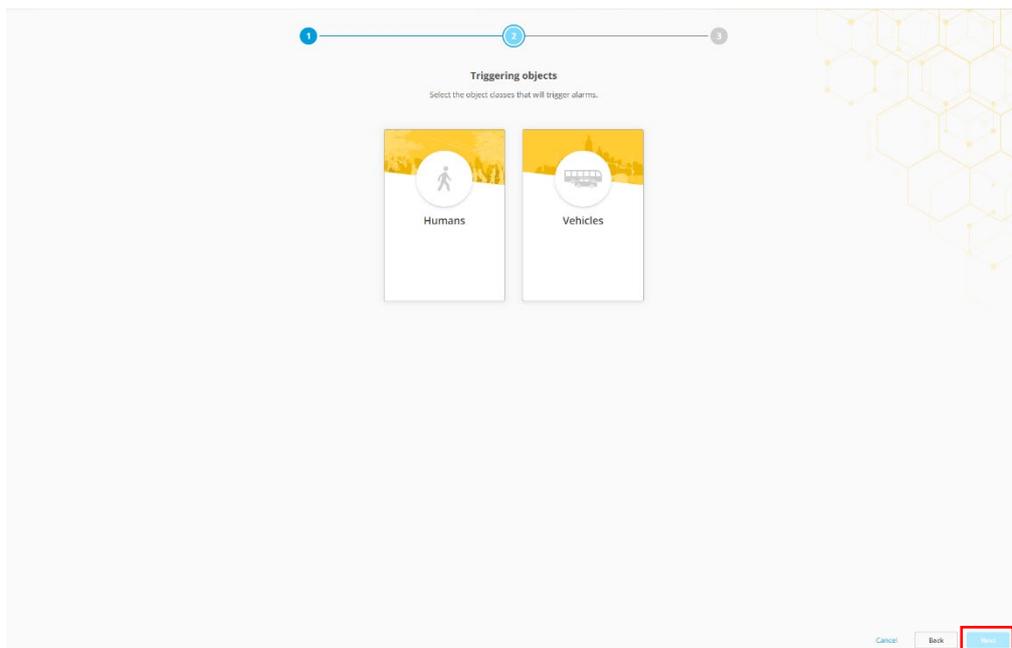


1.3 Step 3 –Configure AXIS Object Analytics

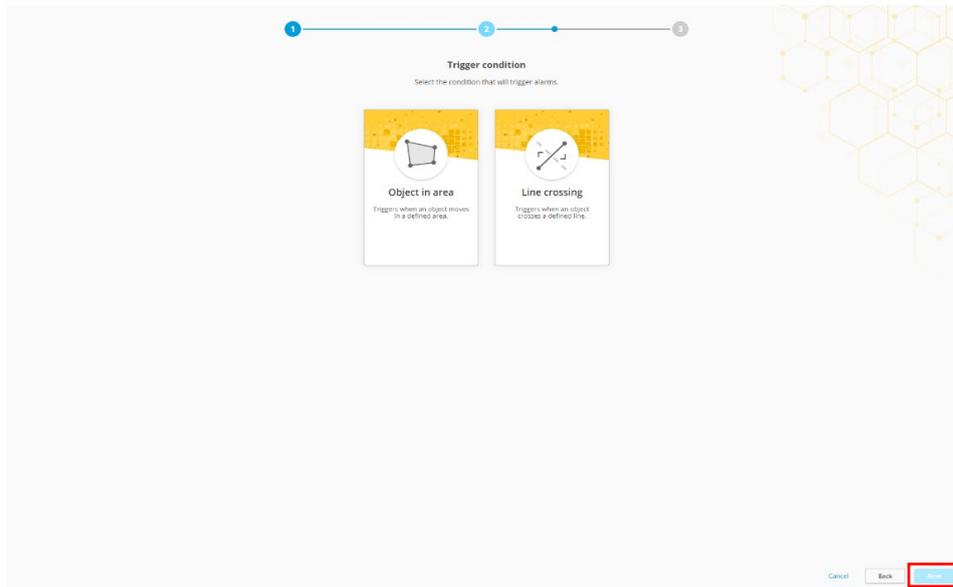
1. Follow the step-by-step guide in the application's user interface.



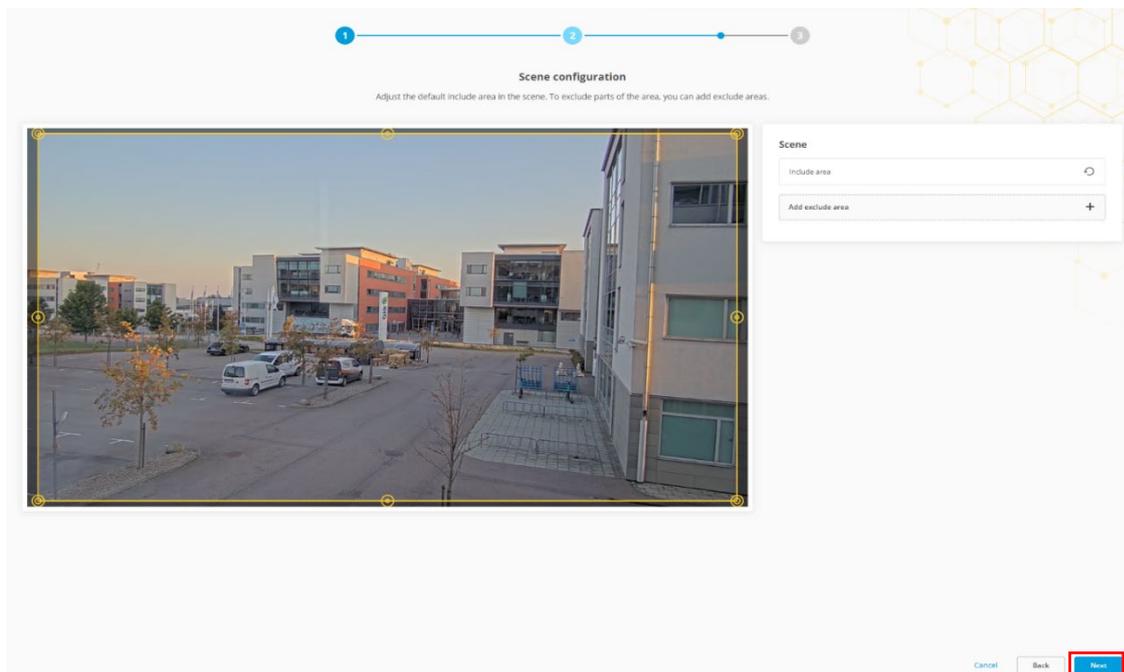
2. Select triggering objects.



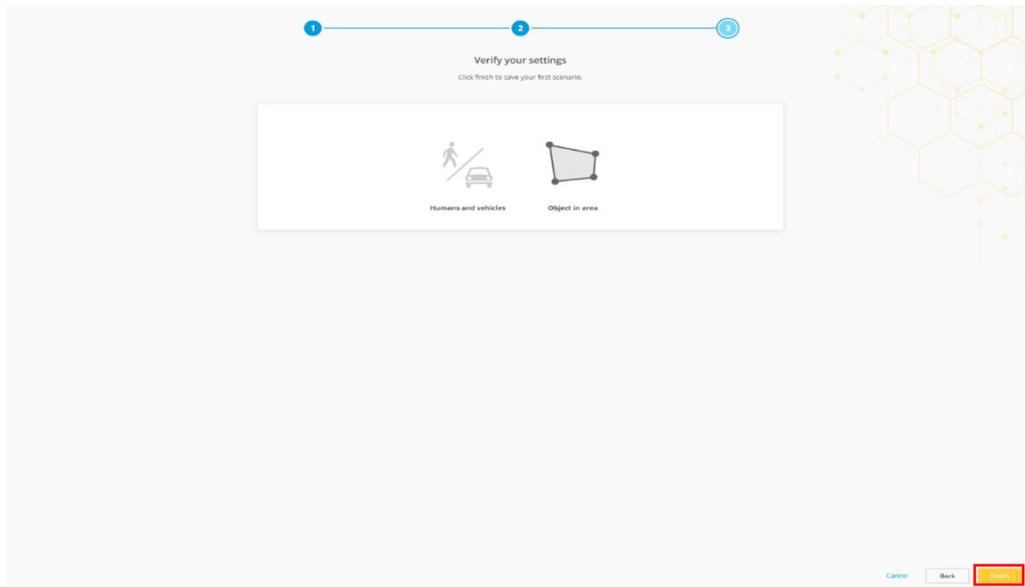
3. Select trigger conditions.



4. Configure the trigger condition for your scene within the camera's field of view.



5. Verify your settings.

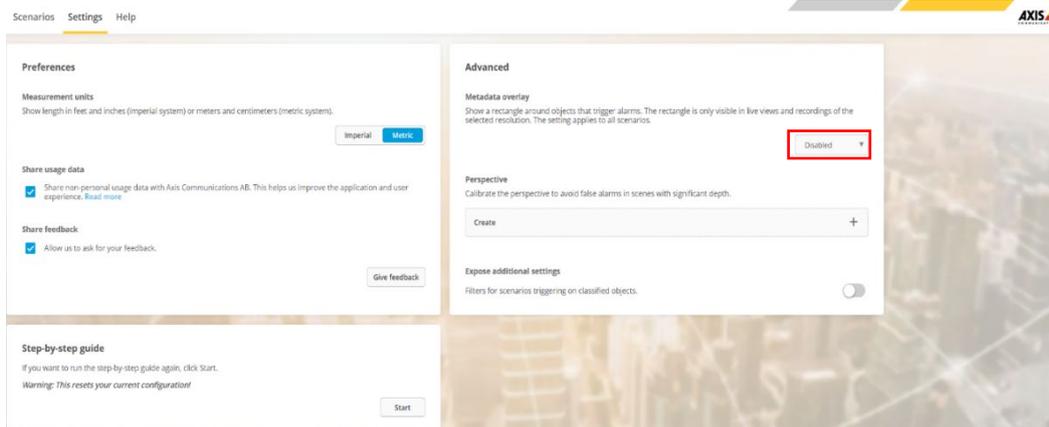


6. You can rename your scenarios to make the trigger conditions easier to find.



1.4 Step 4 – Enable metadata overlay

1. In AXIS Object Analytics, click settings.
2. In Advanced > Metadata overlay, select the desired resolution to burn in the metadata overlay.



Advanced

Metadata overlay

Show a rectangle around objects that trigger alarms. The rectangle is only visible in live views and recordings of the selected resolution. The setting applies to all scenarios.

Perspective

Calibrate the perspective to avoid false alarms in scenes with significant depth.

Create

Expose additional settings

Filters for scenarios triggering on classified objects.



Advanced

Metadata overlay

Show a rectangle around objects that trigger alarms. The rectangle is only visible in live views and recordings of the selected resolution. The setting applies to all scenarios.

1920x1080

Perspective

Calibrate the perspective to avoid false alarms in scenes with significant depth.

Create +

Expose additional settings

Filters for scenarios triggering on classified objects.



3. The selected resolution will be used for both for the live view and the recordings.

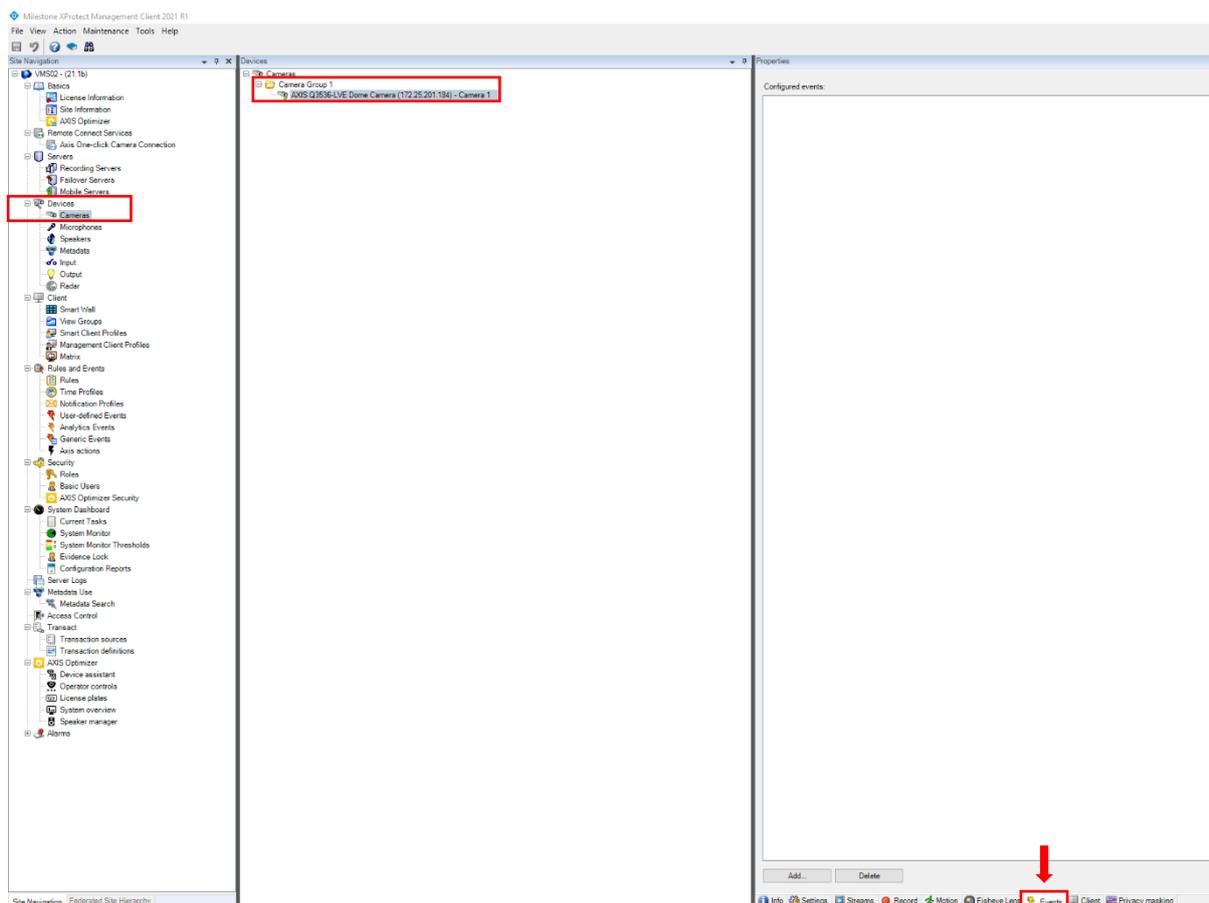
NOTE: When using metadata overlay as a burnt-in option, the correct resolution must be used for both recordings and live view.

2 Milestone Configuration and Dynamic event integration

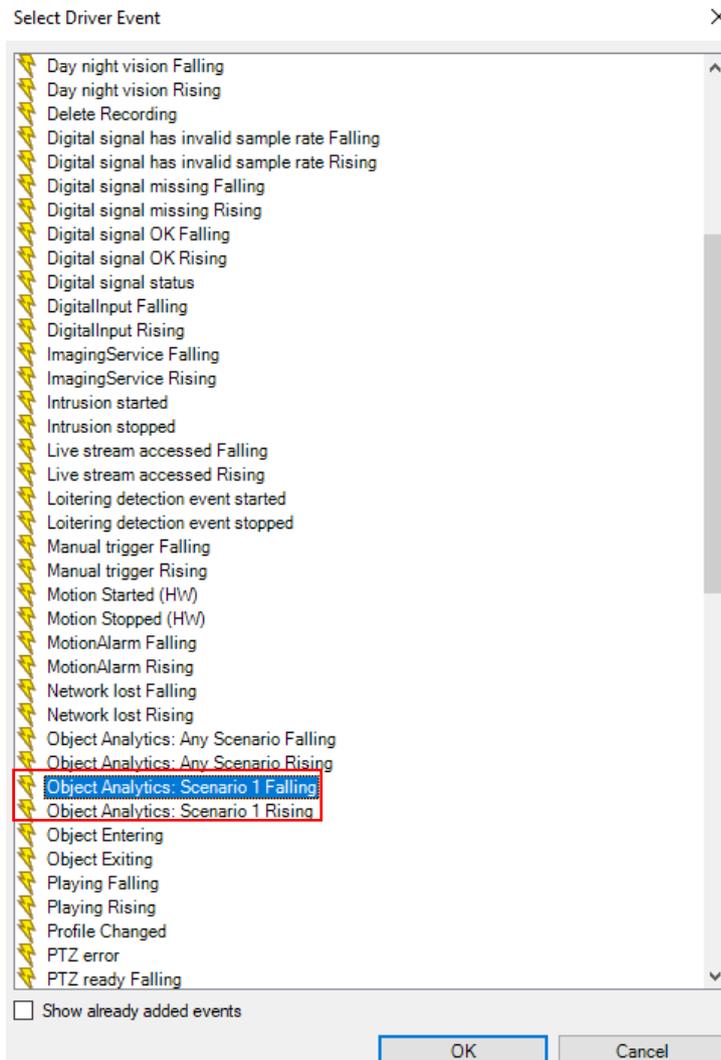
2.1 Step 1 – Enable AXIS Object Analytics events

Before proceeding, we recommend that you finalize all the configuration in the camera. Otherwise, if you add new profiles or change the profile name after adding the device, you must re-add or replace the camera in Xprotect. This type of integration is called dynamic event integration. These steps are valid for all ACAP events.

1. Once the camera has been added into Milestone XProtect Recording Server proceed to the Devices, Cameras and Events tab to enable AXIS Object Analytics events.
2. Go to Camera events.
 - a. Go to Devices > Cameras.
 - b. Select the camera that is running AXIS Object Analytics and has been configured with scenarios.
 - c. Go to the Events tab and select Add.



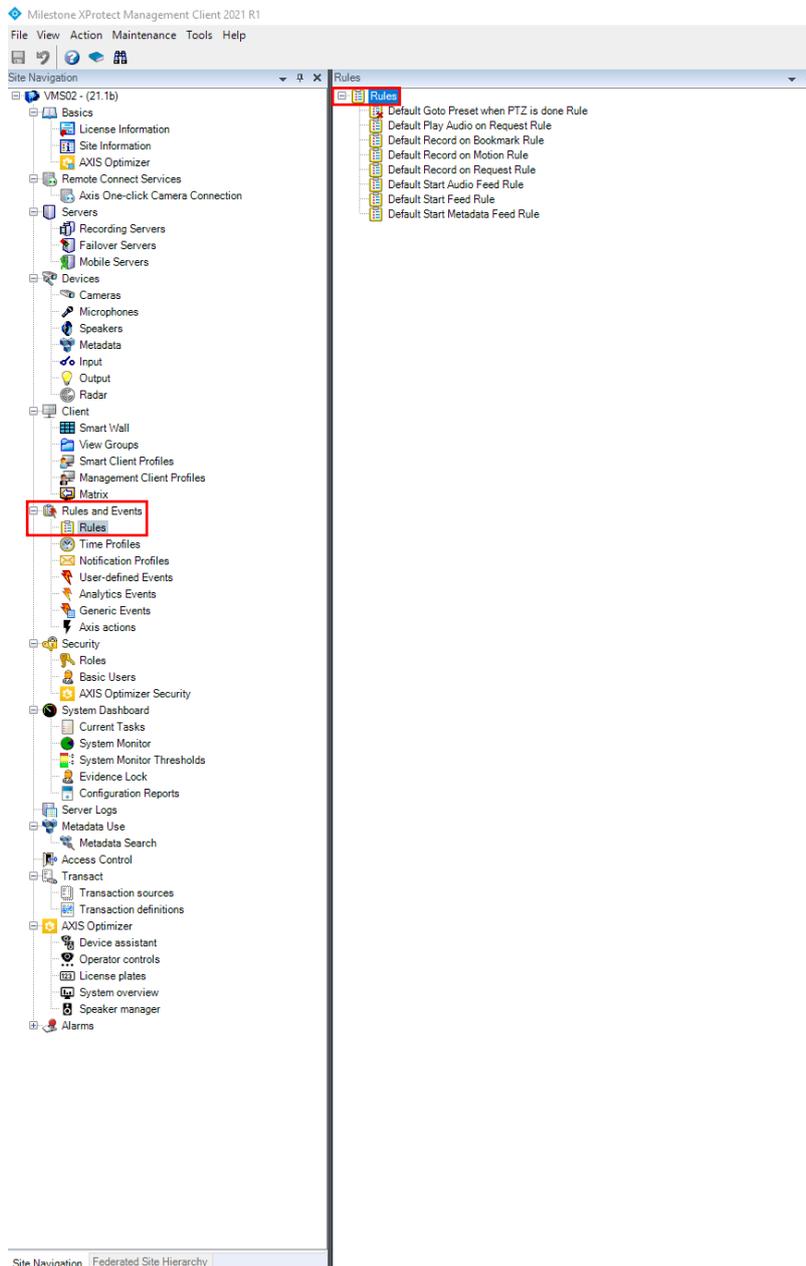
3. Select AXIS Object Analytics and enable the following:
 - a. Object Analytics: Scenario 1 Rising and Falling



4. To save the changes, click OK and save the configuration in the top left.

2.2 Step 2 – Configure AXIS Object Analytics events

1. Within Rules and Events, select Rules and right-click the Rules section to add new rule.



2. Name the rule.
3. Select which action to perform.
 - a. Click the Event option at the bottom, then select the devices from which the event will come.

If multiple devices have the same profile name in AXIS Object Analytics, you can configure all of them under one rule.

Manage Rule

Name:

Description:

Active:

Step 1: Type of rule

Select the rule type you want to create

- Perform an action on events
- Perform an action in a time interval
- Perform an action on a <recurring time>

Edit the rule description (click an underlined item)

Perform an action on event
from devices/recording server/management server

Help Cancel < Back Next > Finish

Select an Event

- Events
 - Hardware
 - Devices
 - Configurable Events**
 - Predefined Events
 - External Events
 - Recording Servers
 - System Monitor
 - Other

OK Cancel

Select devices and groups

Device Groups Recording Servers

- Cameras
 - All cameras
 - Camera_Group 1**
 - AXIS Q3536-LVE Dome Camera (172

Selected:

- AXIS Q3536-LVE Dome Camera (172.25.201.18)

Add Remove

OK Cancel

Manage Rule [-] [□] [X]

Name:

Description:

Active:

Step 1: Type of rule

Select the rule type you want to create

Perform an action on <event>

Perform an action in a time interval

Perform an action on a <recurring time>

Edit the rule description (click an underlined item)

Perform an action on Object Analytics: Scenario 1 Rising
from AXIS Q3536-LVE Dome Camera (172.25.201.184) - Camera 1

[Help] [Cancel] [< Back] [Next >] [Finish]

2.3 Step 3 – Configure Event to Action sequence

1. Select which Action would best be needed for the rule.
 - a. Select triggering devices.

Manage Rule [-] [□] [X]

Name:

Description:

Active:

Step 3: Actions

Select actions to perform

Start recording on <devices>

Clear feed on <devices>

Set <Smart Vello> to <preset>

Set <Smart Vello> monitor to allow <scenar>

Set <Smart Vello> monitor to show text <message>

Remove <camera> from <Smart Vello> monitor <monitor>

Set live frame rate on <devices>

Set recording frame rate on <devices>

Set recording frame rate to all frames for MPEG-4H 254H 255 on <devices>

Start panning on <devices> using <profile> with PTZ <priority>

Pause panning on <devices>

Move <device> to <preset> position with PTZ <priority>

Move to default preset on <devices> with PTZ <priority>

Set device output to <state>

Create bookmark on <devices>

Play audio <message> on <devices> with <priority>

Send notification to <profile>

Make new <log entry>

Start plug-in on <devices>

Stop plug-in on <devices>

Apply new settings on <devices>

Set <Matrix> to new <devices>

Send SNMP trap

Retrieve and store remote recordings from <devices>

Retrieve and store remote recordings between <start and end time> from <devices>

Save attached images

Activate archiving on <cashiers>

On call-to trigger <user-defined event>

Axis: Run operator control <preset>

Axis: Turn on or off video on <reader>

Axis: Start door station call on <door station>

Axis: Stop <scenar>

Axis: Run audiotape on <cameras>

Edit the rule description (click an underlined item)

Perform an action on Object Analytics: Scenario 1 Rising
from AXIS Q3536-LVE Dome Camera (172.25.201.184) - Camera 1
and Recording <message> on <devices> to which event occurred
and Create bookmark: Triggering on the device on which event occurred

Select Triggering Devices

Use trIGGERING device

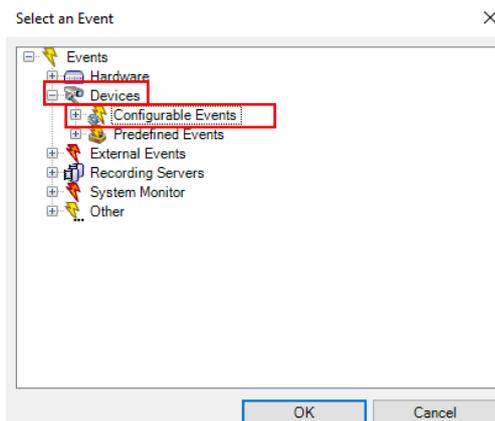
Select devices

[OK] [Cancel]

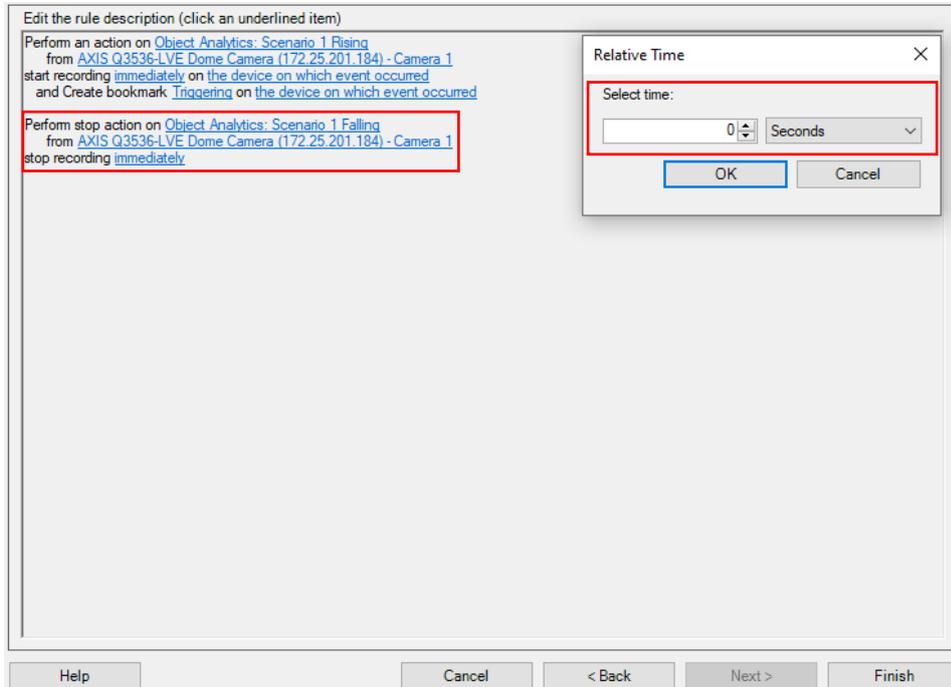
[Help] [Cancel] [< Back] [Next >] [Finish]



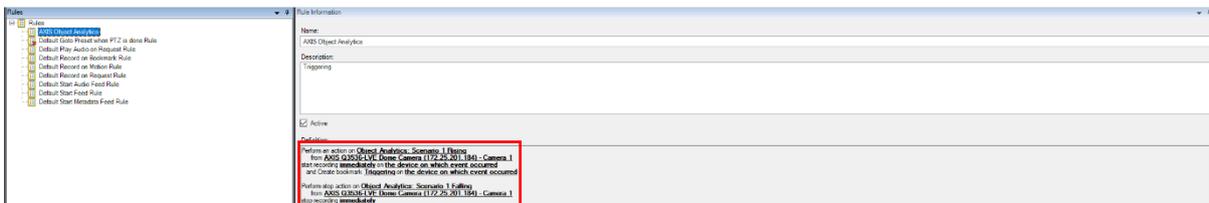
2. Select what should happen when the event has stopped triggering.



- If recording has been specified, configure the time the recording should stop after the event has taken place.

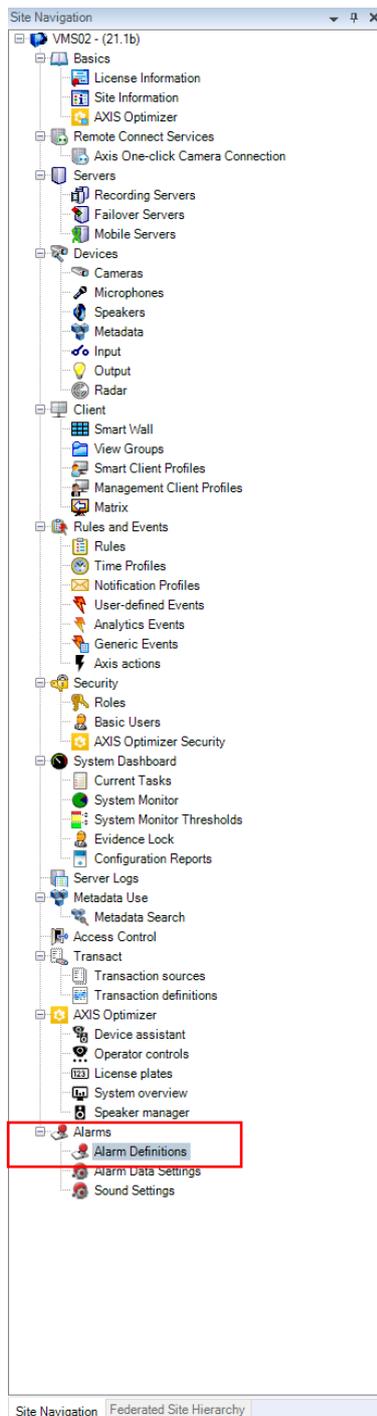


The final view of the rule that has been configured:

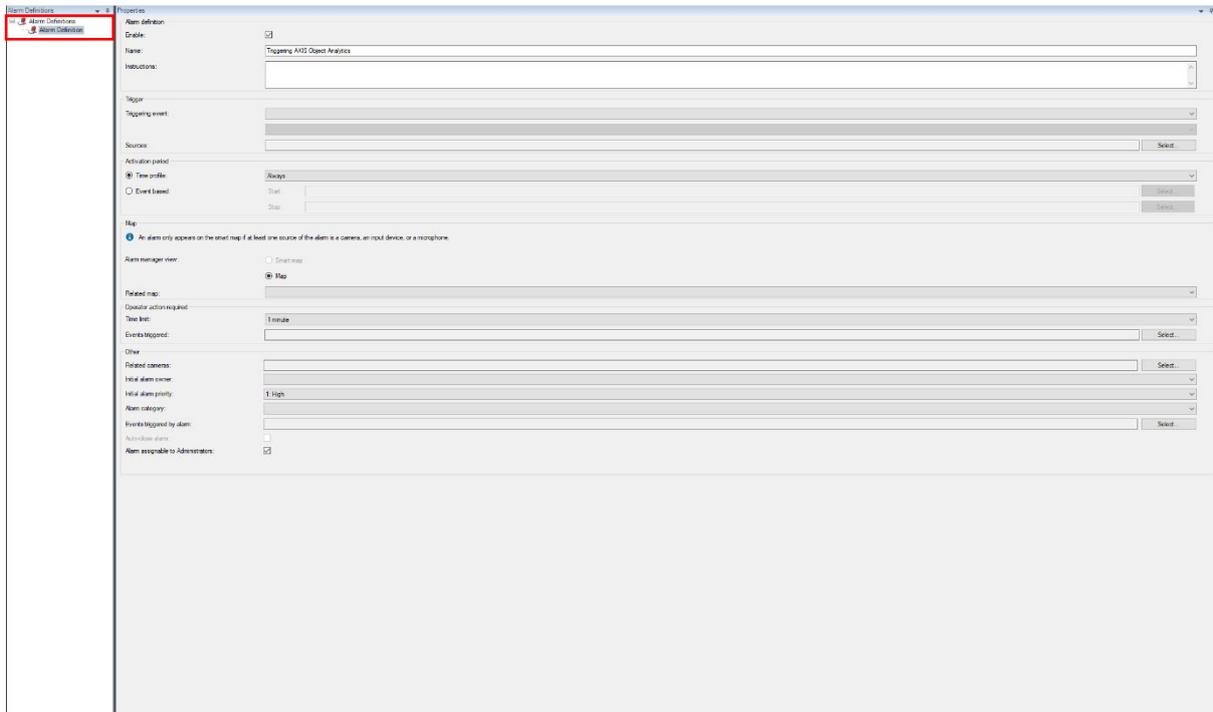


2.4 Step 4 – Configure the alarm for AXIS Object Analytics

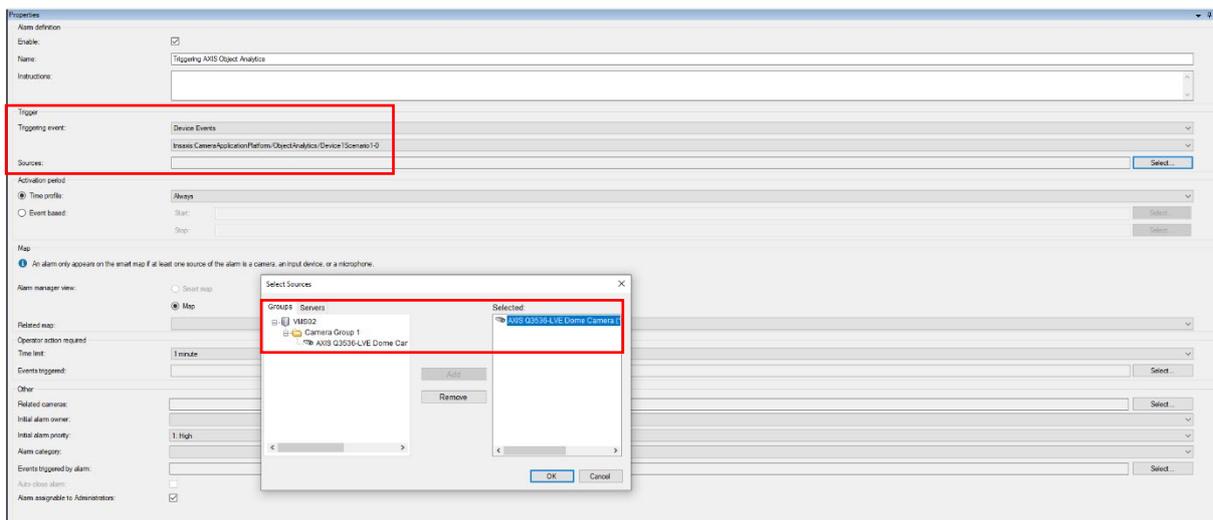
1. Configure the Alarm for the Rule that has been configured.
 - a. Navigate down to the Alarms section.
 - b. When Alarm Definitions have been selected, right click to be able to add new alarm.



2. Configure the Alarm for the Rule that has been configured.
 - a. Name the Alarm accordingly.



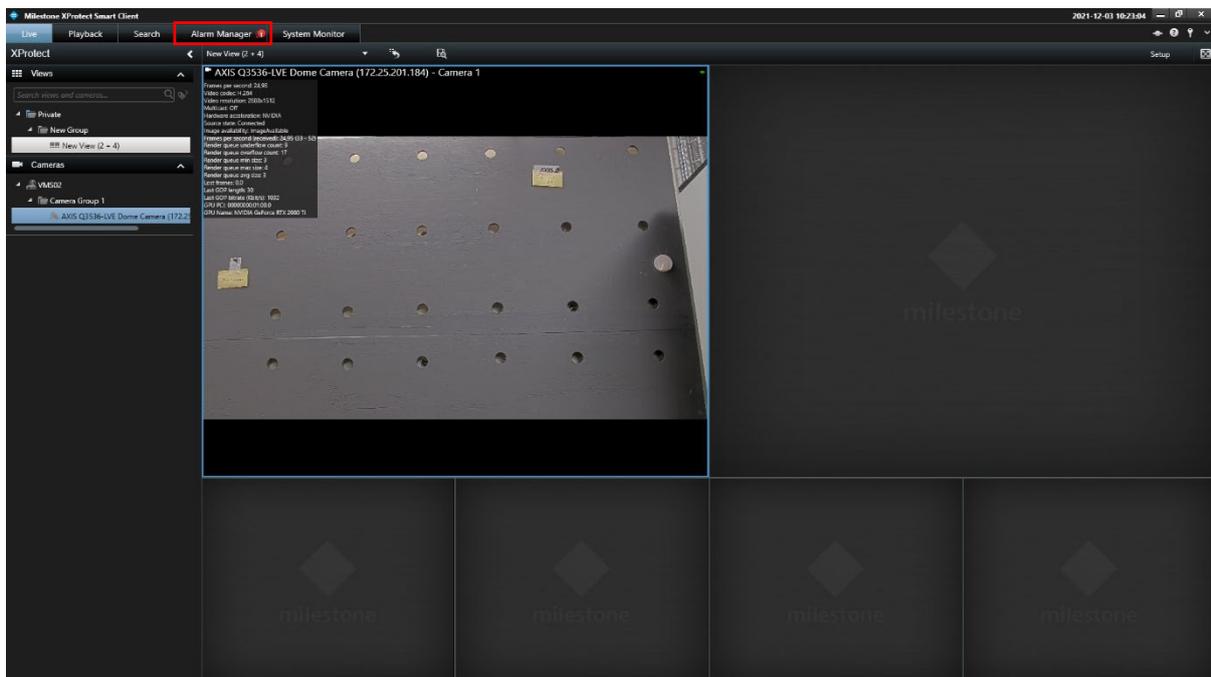
3. Link the alarm to the triggering event that has been configured.
 - a. Select which source the trigger is coming from as well.



3 Milestone XProtect® Smart Client

3.1 Viewing the Alarms in Alarm Manager

1. When the Rules and Alarms have been configured, proceed to the Milestone XProtect Smart Client.
 - a. Set up the views as needed.
2. When there is an event/alarm triggering, there will be a notification that will appear in the Alarm Manager Tab.



3. View the alarm recording that has come in.



4. Acknowledge the alarm and clear it after further investigation has taken place.

