

## Trigger Milestone Event Node

# Trigger Milestone Event Node

Trigger Analytics Event and Alarms in Milestone XProtect when certain conditions are met

## Overview

This node triggers an Analytics Event in Milestone XProtect based on specified trigger conditions. This event can be configured in XProtect to trigger an alarm and take other actions.

The screenshot shows the Milestone XProtect Smart Client interface. The top bar includes tabs for Live, Playback, Search, Alarm Manager, and System Monitor. The main area displays an event log table with columns: Time, Message, Source, Rule, Vendor, Type, and Object. A specific event is highlighted, and red arrows point from labels to its fields:

- Analytic Event Name** points to the Message column.
- Source (derived from ID)** points to the Source column.
- Rule (generated from supported nodes in Lumeo)** points to the Rule column.
- Object Properties (generated from supported nodes in Lumeo)** points to the Object column.
- Snapshot (sent by Lumeo with any annotations you add in the Pipeline)** points to the video snapshots below the table.

Below the table, two video snapshots are shown side-by-side. The left snapshot is labeled 'AXIS P1455-LE (172.16.0.38) - Camera 1 - 2/18/2022 4:44:34.007 PM' and shows a parking lot with several cars. The right snapshot is labeled '4:44:34.015 PM' and shows the same parking lot with yellow bounding boxes around the cars and a green line indicating a path. A red arrow points from the 'Snapshot' label to the right snapshot.

*Event/Alarm triggered in Milestone XProtect using Lumeo generated Analytics Event*

## Inputs & Outputs

- Inputs : 1, Media Format : Raw Video
- Outputs : 1, Media Format: Raw Video
- Output Metadata : None

# Properties

hostname	<p>Hostname or IP address of the XProtect server. Please ensure that the server is reachable from the Lumeo Gateway that this pipeline is deployed to.</p> <p>ex. 192.168.4.55</p>
port	<p>Analytics Event port that is configured in XProtect settings. See below for configuration instructions. Lumeo will connect to the port using TCP.</p> <p>ex. 9090</p>
message (aka event_name )	<p>Name of the Analytics Event that will be sent by Lumeo. Must be one of the Analytics Events as defined in XProtect.</p> <p>ex. OvertimeParking</p>
src	<p>Unique ID of the Camera from Milestone that this event is associated with. See below for how to obtain this from XProtect Management Client.</p> <p><i>Note: If you configure the Milestone Open Network / ONVIF Bridge as a source camera in Lumeo, and use one of it's streams, you can skip this and Lumeo will automatically configure it for you.</i></p> <p>ex. 9121-2291a-23941-a341321</p>
description	<p>If specified, this will be visible in the Smart Client, when managing alarms based on this event.</p>
event_type	<p>Event sub-type for the Lumeo generated event. This will be displayed as the "Event Type" in XProtect Client Events list.</p> <p>ex. Parking</p>
include_snapshot	<p>Includes a snapshot of the event from the pipeline. Will be displayed alongside the live video from the camera in the Event window.</p> <p>ex. true / false</p>

node_filter	<p>Comma separated list of nodes from which metadata will be sent to XProtect, and show up under <code>Rule</code> and <code>Object</code> column in XProtect Events table.</p> <p>Leaving empty means all relevant nodes. Use this when you have multiple rule nodes configured in your Lumeo pipeline but only want metadata from one of them in this XProtect Event.</p> <p>ex. <code>annotate_presence2</code></p>
trigger	<p>If set, an event is sent when this trigger condition evaluates to <code>True</code>, subject to the minimum interval as specified below.</p> <p>The trigger expression must be a valid Dot-notation expression that operates on Pipeline Metadata and evaluates to <code>True</code> or <code>False</code>. See details <a href="#">here</a>.</p> <p>ex.  <code>`nodes.annotate_line_counter1.lines.line1.total_objects_crossed_delta &gt; 0`</code></p>
interval	<p>Minimum time, in seconds, between consecutive events.</p> <p>If a trigger is not specified, the event will be triggered at this interval.</p> <p>ex. <code>60</code></p>

## Milestone XProtect Setup

### Enable Analytics Events

Lumeo Milestone XProtect Integration uses Analytics Events to send Events to Milestone. To enable them:

1. Launch XProtect Management Client, and navigate to `Tools -> Options` menu, and open the `Analytics Events` tab.
2. Ensure Analytics Events are Enabled, and Events are allowed from All network addresses, or at least, the IP address of your Lumeo Gateway. Make a note of the Port - to be configured in this

node within Lumeo.

**Options** [X]

Bookmark User Settings Audio Messages Privacy settings Access Control Settings Analytics Events Custom ←→

**Analytics events**

☒ Enabled

Port:  
9090

**Security**

Events allowed from:

☒ All network addresses

☐ Specified network addresses:

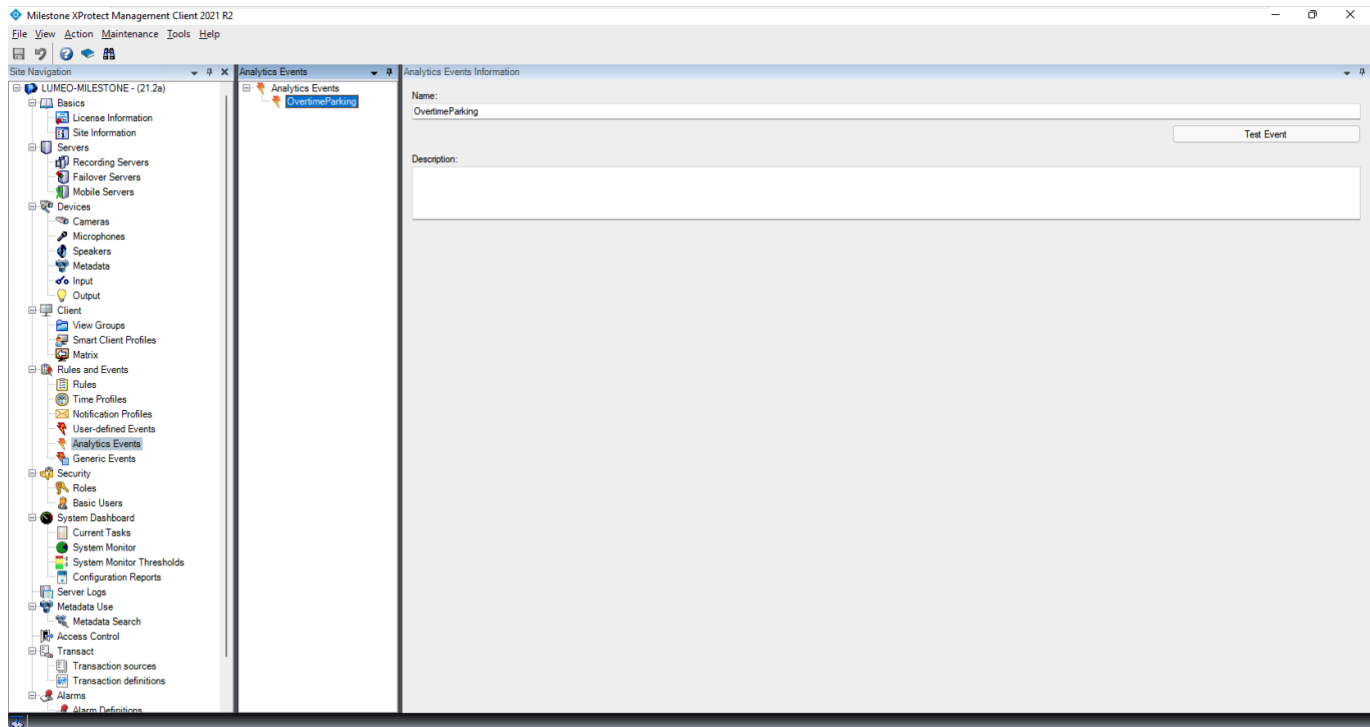
	Address
*	

Import...

Help OK Cancel

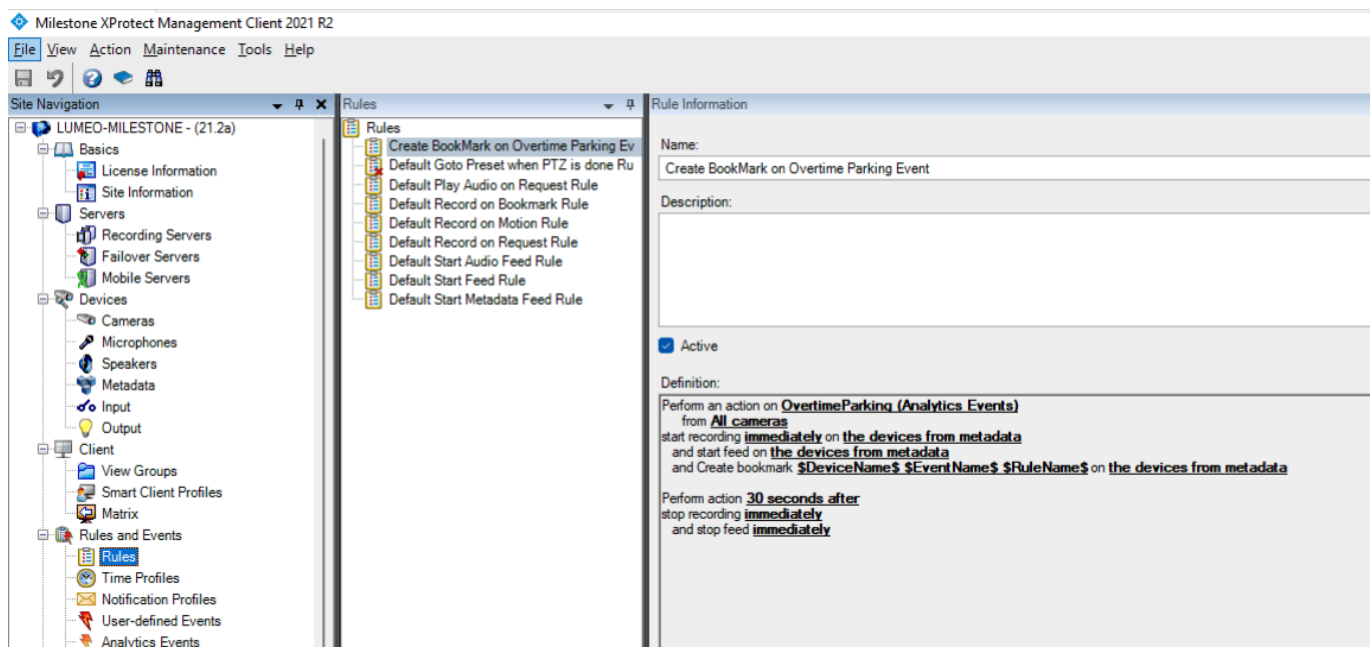
## Event Configuration

Create a new Analytics Event in XProtect Management Client under Rules and Events → Analytics Events . Note the Name of this event - to be configured as the Event Name property in this node within Lumeo.



## Rules Configuration

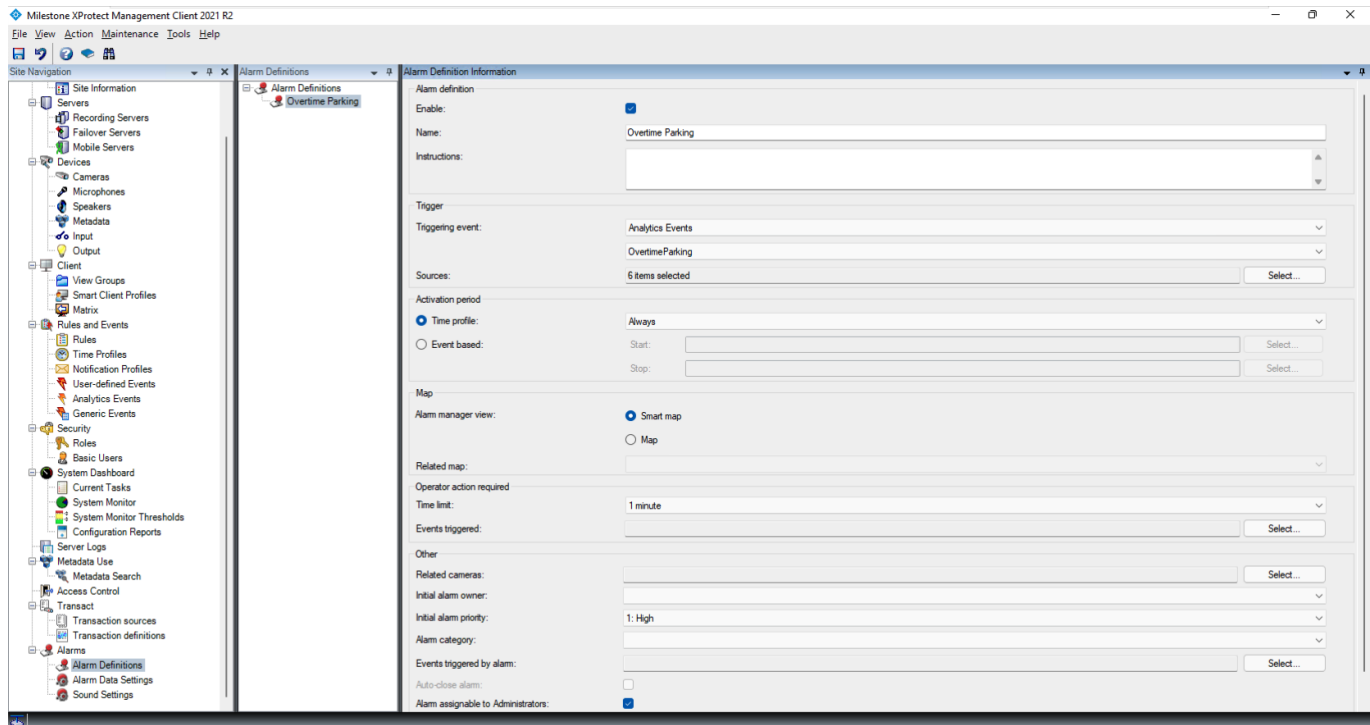
Navigate to Rules and Events -> Rules to create Rules (such as setting a Bookmark) that are executed when the Analytics Event is triggered. Note that the set of available Rules may vary depending on which XProtect version you are licensed for.



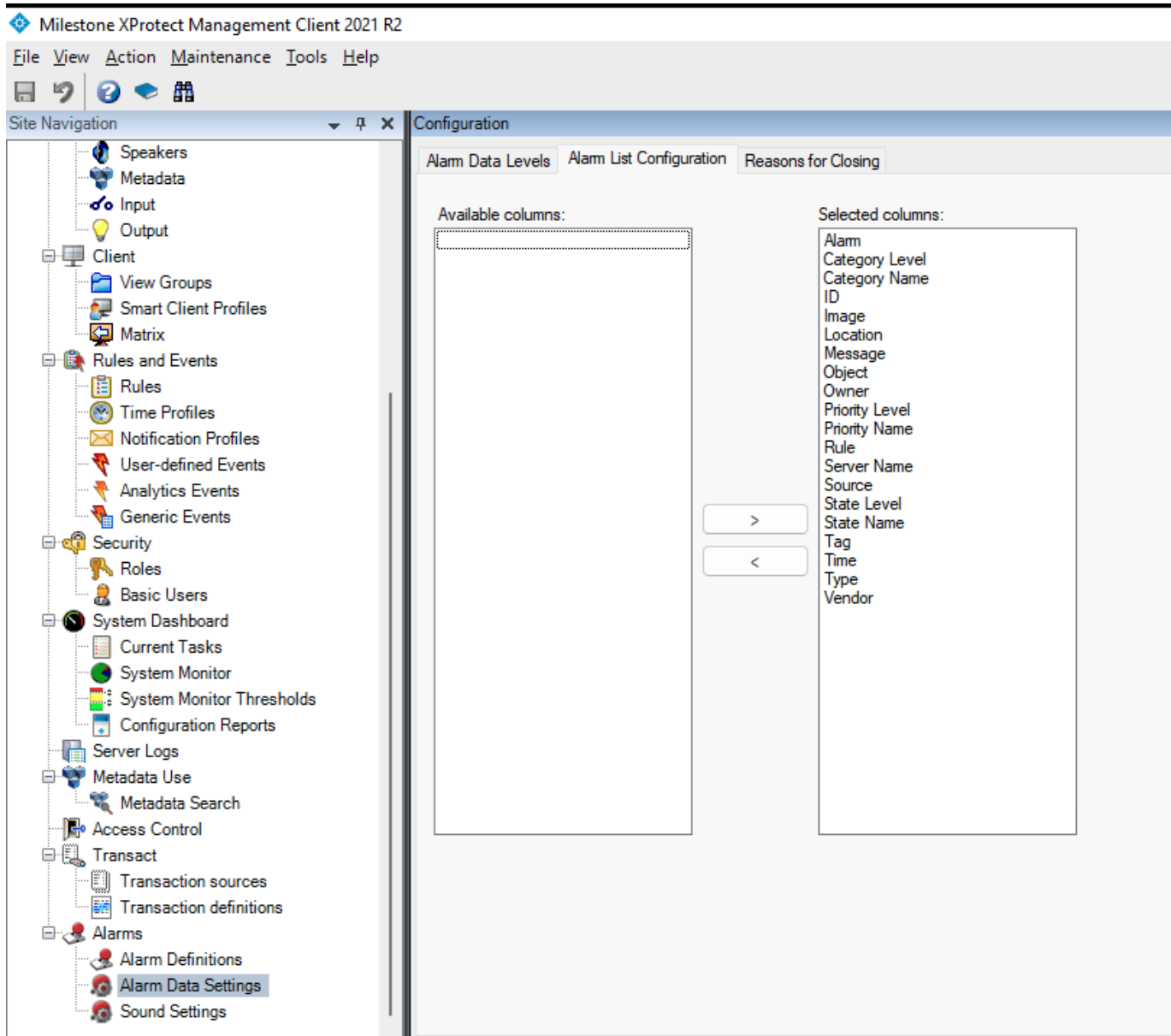
## Alarm Configuration

Navigate to Alarms -> Alarm Definitions to create an Alarm that is triggered when the Analytics Event is triggered. Set:

- Trigger: Triggering Event to Analytics Events and pick the Analytic Event you defined in "Event Configuration" section above.
- Trigger: Sources to the cameras which you configure as the source in the Lumeo node properties.



To enable viewing all the metadata that Lumeo sends to Milestone, navigate to Alarms -> Alarm Data Settings -> Alarm List Configuration tab and add all options in "Available Columns" to "Selected Columns".



## Camera / Source ID

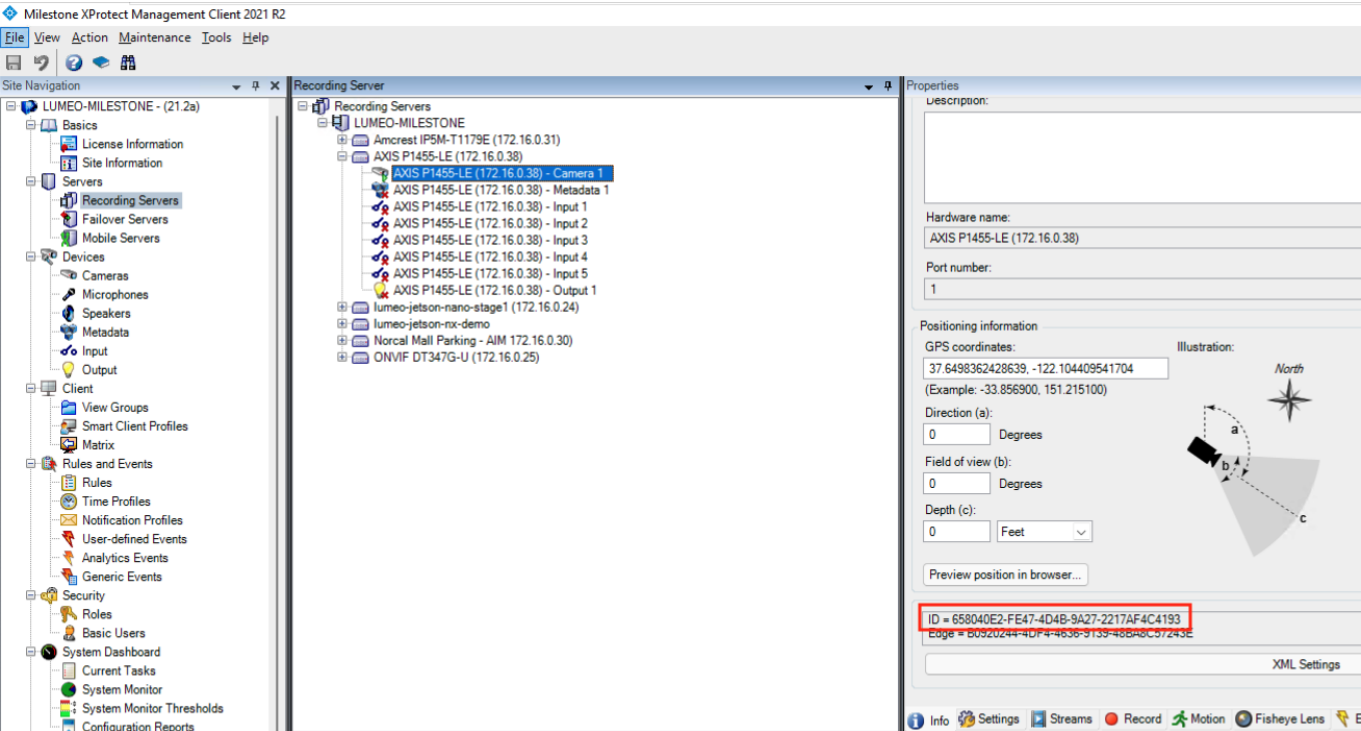
This node allows you to set a Camera ID as the source of the event (in `src` property). You can obtain this from XProtect Management Client.

Note: If you setup the Milestone Open Network / ONVIF Bridge as a "camera" in Lumeo, and use one of it's streams as the pipeline source, Lumeo will automatically set the correct Camera ID for any alarms / events triggered in Milestone. See section below on how to setup the Bridge as a "camera".

Navigate to `Recording Servers` section and Ctrl-click on the Camera whose ID you wish to configure as the event source in this node. The properties pane will then show the ID (as

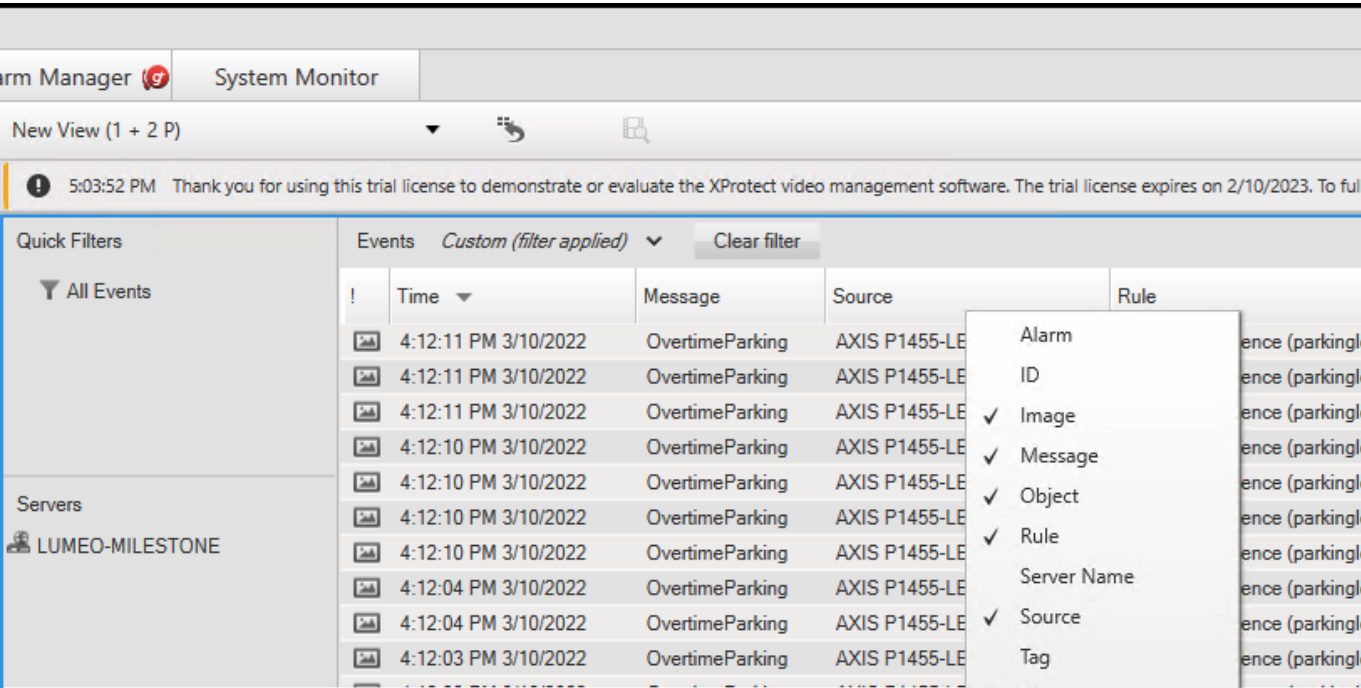


highlighted in the image). Copy-paste this into this node's properties.

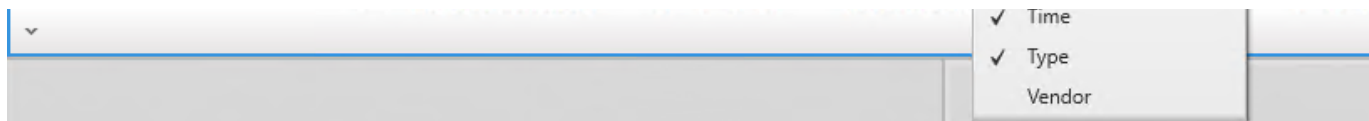


# Configuring XProtect Client

Lumeo generated metadata is available via "Events" in the XProtect Client. Once you have enabled all columns in 'Alarm Data Settings' you will be able to right click the column headers under the Events section and add Rule and Object columns to the Events view. These will contain Lumeo Rule information as well as metadata about any detected objects, etc.







## Setting up Milestone ONVIF Bridge in Lumeo

Milestone ONVIF Bridge can be setup as a "Camera" within Lumeo, to bulk import multiple streams and remove the requirement to configure a "Source ID" in the Milestone Node.

Lumeo does not discover the Milestone Bridge automatically. To set it up, use the Add Camera button from a Gateway that can access the Milestone Bridge, and specify the Bridge IP address along with the Port number. Milestone Bridge typically uses Port 580 for ONVIF, so you'd specify it as `x.x.x.x:580`

A screenshot of the 'New Camera' dialog box in Lumeo. The dialog has a title bar with a close button (X). Below the title bar, there is a section 'Select a camera type' with two buttons: 'ONVIF camera' (selected, highlighted in blue) and 'Local' (grey). Below this is the 'IP address' field with a red asterisk, containing the text '10.0.1.50:580'. Below that is the 'Camera name' field containing 'Milestone ONVIF Bridge'. Below that is the 'Camera credentials' section with 'Username' and 'Password' fields. The 'Username' field contains 'onvif\_user'. The 'Password' field contains a masked password '.....' and a blue eye icon to toggle visibility. At the bottom of the dialog are two buttons: 'Cancel' and 'Create' (highlighted in blue).

Once setup, the Bridge will show up as a Camera in Lumeo, and individual streams will show up under Streams in the Camera detail view.

Camera

Milestone Bridge

6701a8f9-11e6-48d0-8f63-1b3fe1d21809

IP address

172.16.0.45

Camera model

Milestone Open Network Bridge

Gateway

Corp Offices

Offline

Delete

Preview

Streams

Credentials

Milestone Bridge-AXIS P1455-LE (172.16.0.38) - Camera 1

d06ac683-505d-45cb-9a88-a0498f790b2e

Milestone Bridge-Amcrest IP5M-T1179E (172.16.0.31) - Camera 1

15d21fc3-d956-4b2f-84e9-1589625ad161

Milestone Bridge-ONVIF DT347G-U (172.16.0.25) - Camera 1

bb8c04b1-e393-410e-98ed-87bc9a20e40b

Updated 28 days ago

← Trigger HikCentral Alarm Node

Trigger Pushover Notification Node →

Did this page help you?

Yes

No