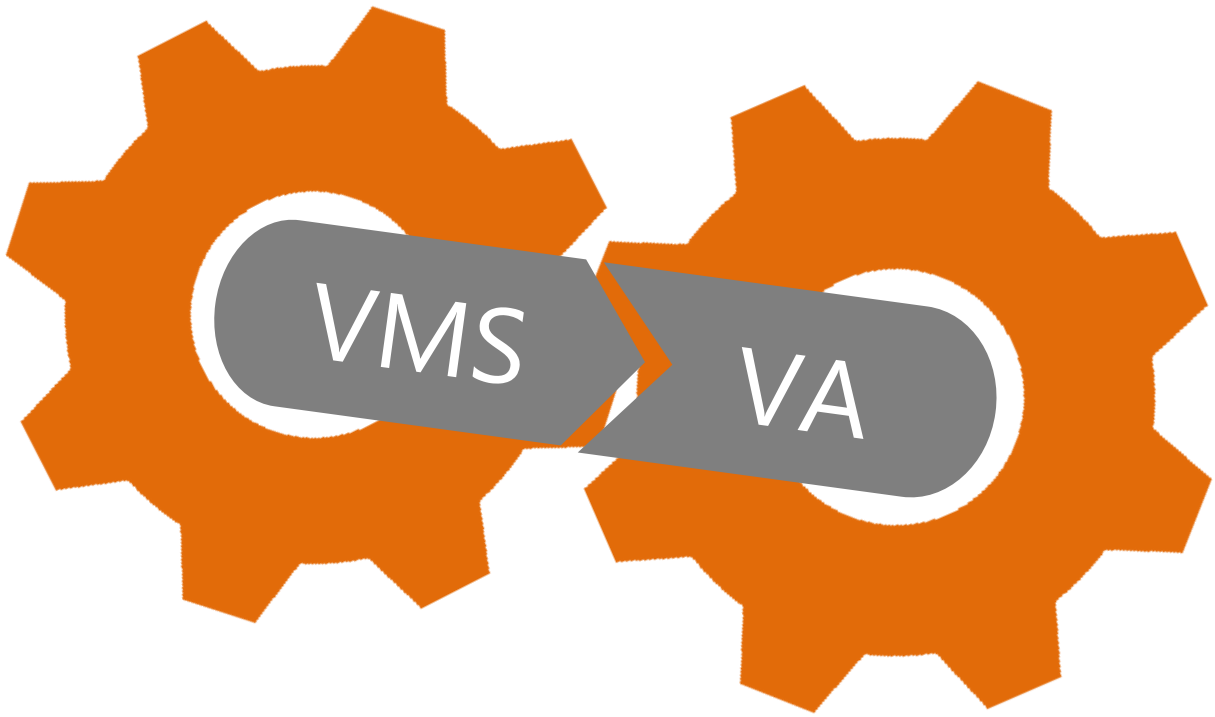
AllGoVision
see. sense. secure

VMS Integration Document

AllGoVision Video Analytics | Milestone VMS

Version 4.0

Release Date: February 2019



Contents

COPYRIGHT INFORMATION 1
INTRODUCTION 2
SYSTEM REQUIREMENT 2
INTEGRATION WITH MILESTONE 3
Camera Registration in AllGoVision WEB UI 4
License Plate Recognition Video Output 6
Face Recognition Video Output 7
EXTERNAL EVENT CONFIGURATION IN MILESTONE 7
ALARM VIEWING IN MILESTONE SMART CLIENT 13

COPYRIGHT INFORMATION

© 2015-2016 AllGo Embedded Systems Private Limited, Bangalore, India. All Rights Reserved.

All information contained in this document is the property of AllGo Embedded Systems Private Limited., It is not to be disclosed by the recipients to third parties, neither allowed to be reproduced by or for third parties in any form or by any means, electronic nor mechanical, including photocopying, without prior written permission from AllGo Embedded Systems Private Limited.

INTRODUCTION

AllGoVision is a Video Analytics software product for actionable intelligence in security installations. The product provides excellent return on investment for a wide range of applications, including City Surveillance, Building Surveillance, Business Intelligence, Loss Prevention, Consumer Behavior Analysis, Monitoring Traffic Flow, Parking Management and many more.

The technology evaluates the contents of video to determine the specific information about the video contents. The product analyzes rapidly the video for specific data, behavior patterns, tracking movement of people/objects in monitoring zones.

Being an open-platform video analytics solution, AllGoVision easily and tightly integrates with many VMS including Milestone. This document provides details on AllGoVision's integration with Milestone VMS.

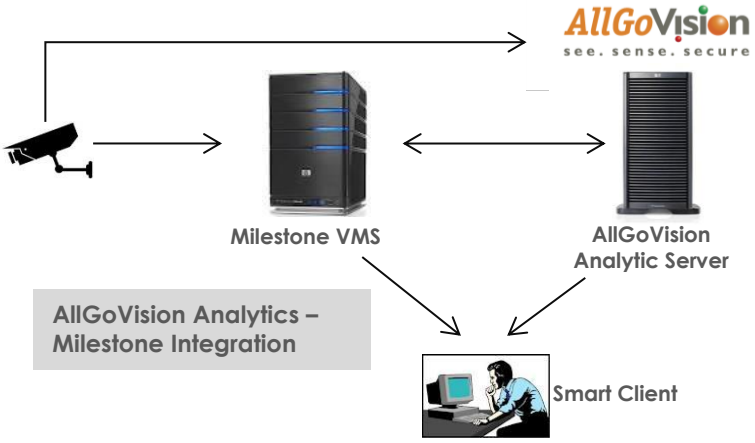
SYSTEM REQUIREMENT

AllGoVision analytics has the following system hardware and software requirements.

CATEGORY	REQUIREMENT
Operating System	**Workstation**: Windows 10 **Server**: Windows Server
Network	Ethernet, 1 Gbit or higher recommended.
Hardware Requirement	x86 Platform, 64 bit, AVX2 support 6th Gen or higher
Server requirement (for QVGA resolution)	Core i7 (6 Cores), 3 GHz, 8 GB RAM for up to 15 channels Xeon 6 core, 3 GHz, 8 GB RAM for up to 15 channels Xeon 12 core, 3 GHz, 16 GB RAM for up to 30 channels (approx. 2.5 channels per core, suitable to add multiple CPUs in single server) Supports Nvidia GPU acceleration for Face Capture & Recognition (approx. 1 channel per 2 cores for Face Recognition based features) **Note**: Actual Configuration will be based on the use-cases and features
Frame Rate Requirement	>8 fps for Security Analytics (Perimeter Protection/Intrusion), Face Recognition >15 fps for PTZ Analytics, People Counting, Traffic features and LPR.
Stand Alone version camera support (Works with/without VMS)	Models from Axis, Pelco, Bosch, Sony, Honeywell, Hikvision, Dahua, Panasonic, Brickcom, Indigovision, Cisco, Samsung, Acti, Vivotek, FLIR, Digital Watchdog, and others (ONVIF Cameras). Any other camera requires URL to connect camera and get video feed. Supports MJPEG, H.264, MPEG4 Supports ONVIF camera, ONVIF PTZ control
VMS Software	Milestone (Express/Expert/Professional/Enterprise/Corporate)

INTEGRATION WITH MILESTONE

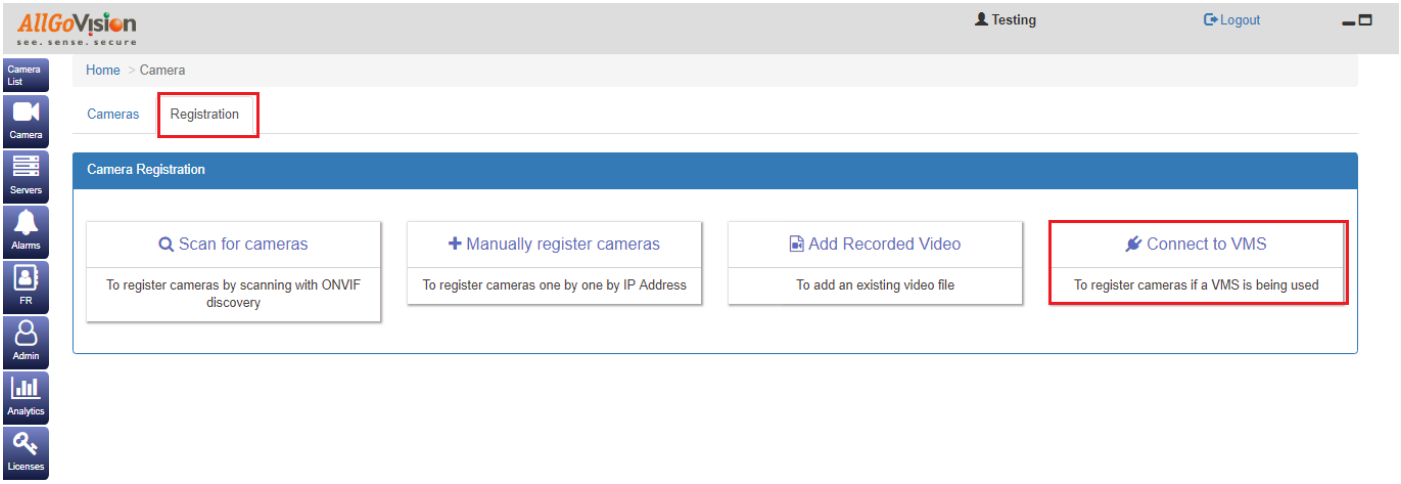
- AllGoVision application provides the flexibility in installation. It can be installed either in same machine with Milestone VMS or separate machine.
- AllGoVision can take the Video feed directly either from Milestone VMS or Camera.
- AllGoVision send alarms to Smart Client application.
- AllGoVision application can run as a windows service.

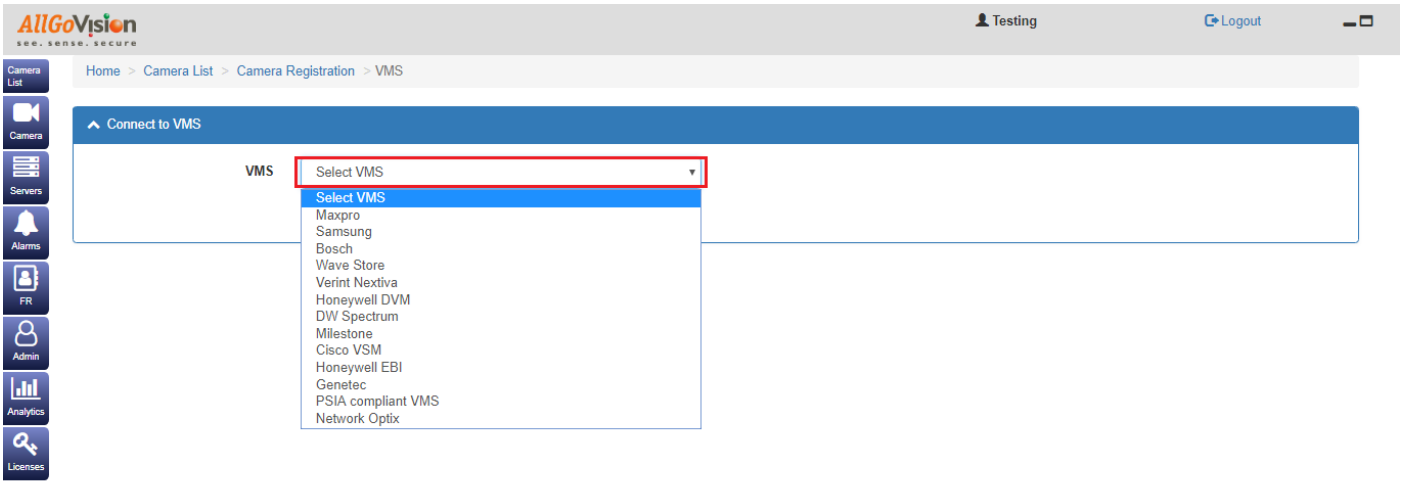


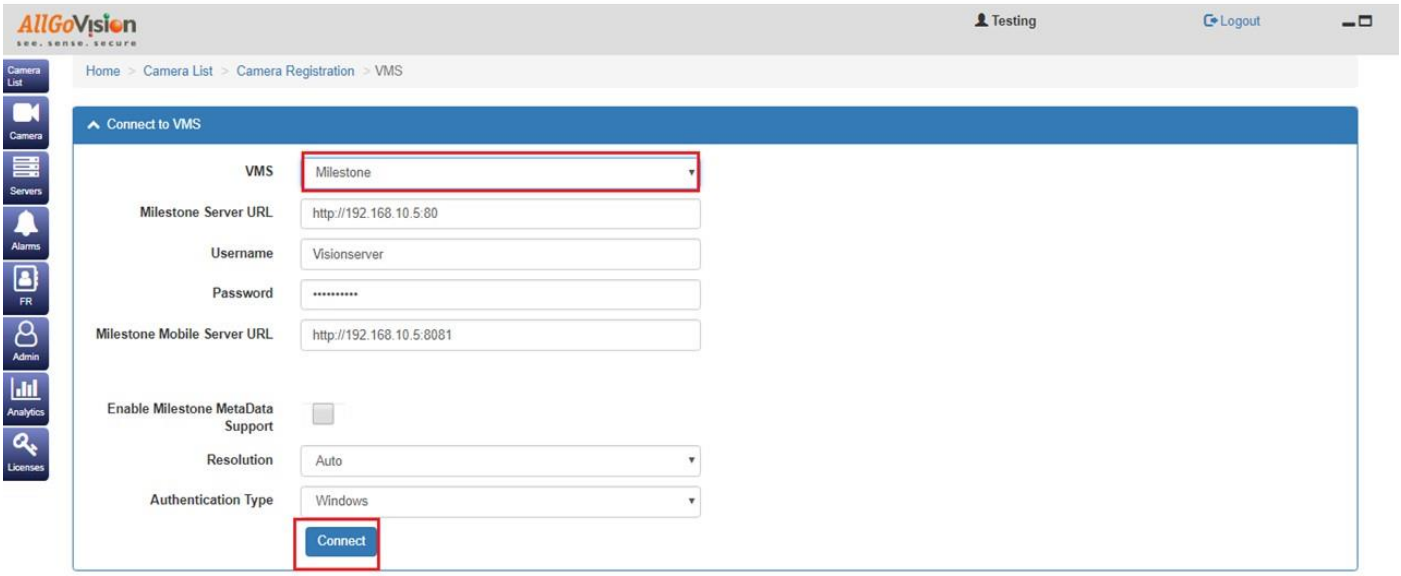
AllGoVision Management client

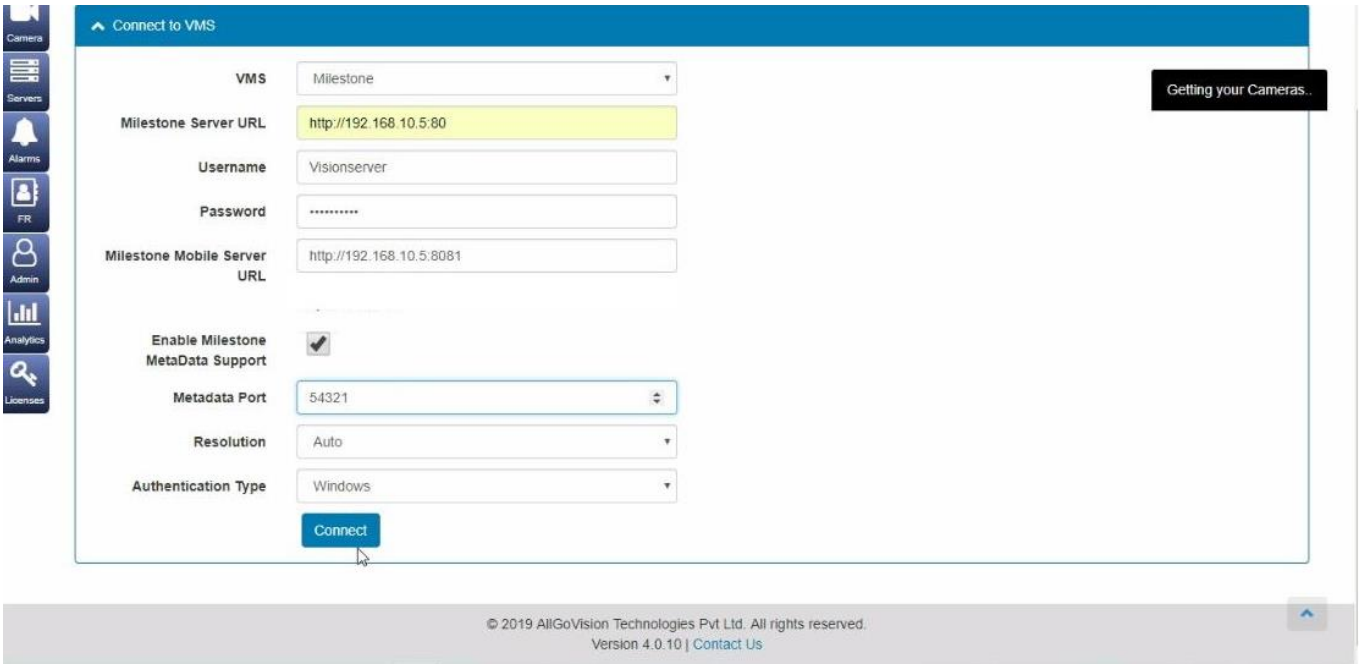
- AllGoVision Management client connects to Milestone and gets video feed
- The analytic rules are set in AllGoVision Management client and started as service
- The alarms are sent to Event server of Milestone
- AllGoVision sends events to Milestone as well
- AllGoVision sends metadata to Milestone so that it can be seen in Live view
- AllGoVision provides plugin for ANPR and FR to view alarms with details for Smart Client
- AllGoVision WEB UI plugin provides inside Smart Client for configuration and viewing the alarms.

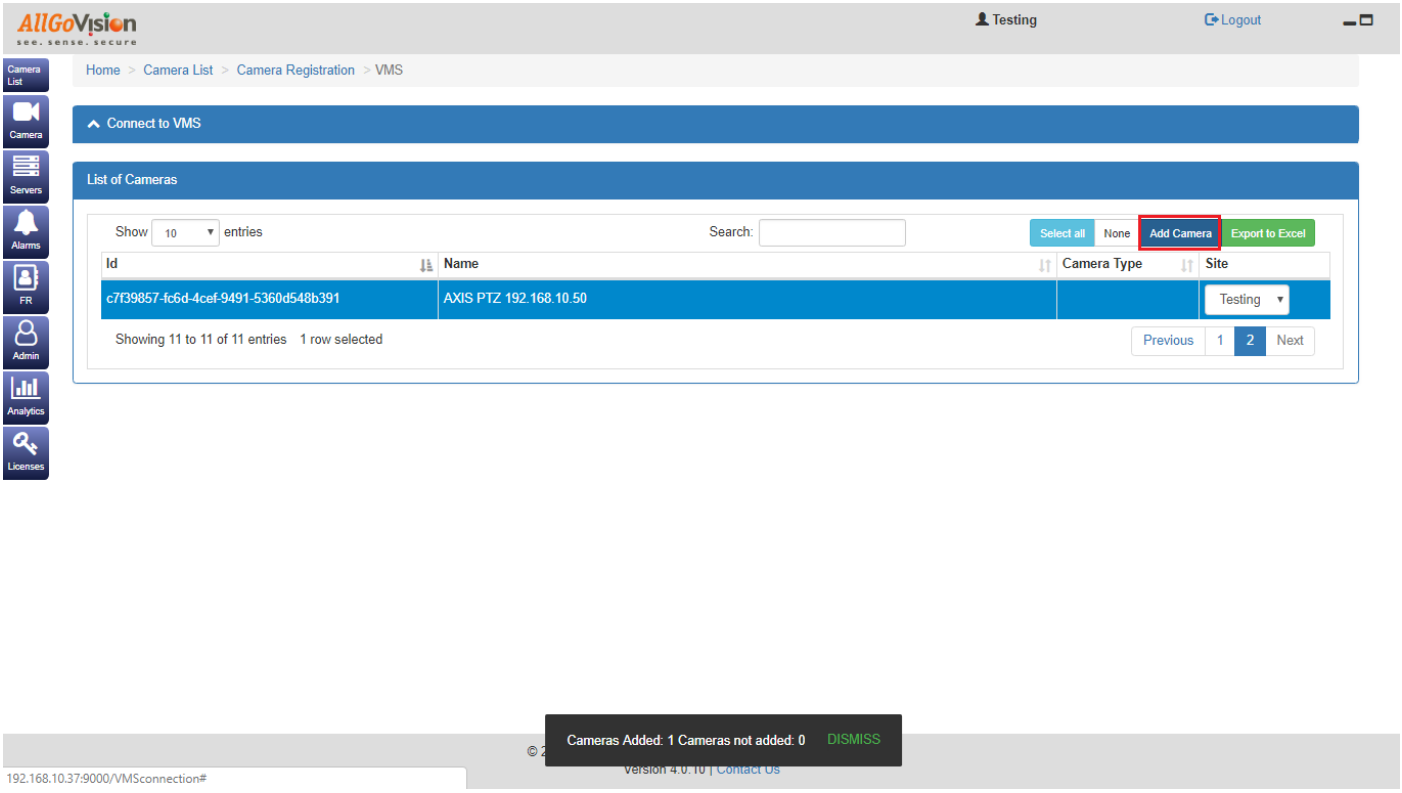
Camera Registration in AllGoVision WEB UI





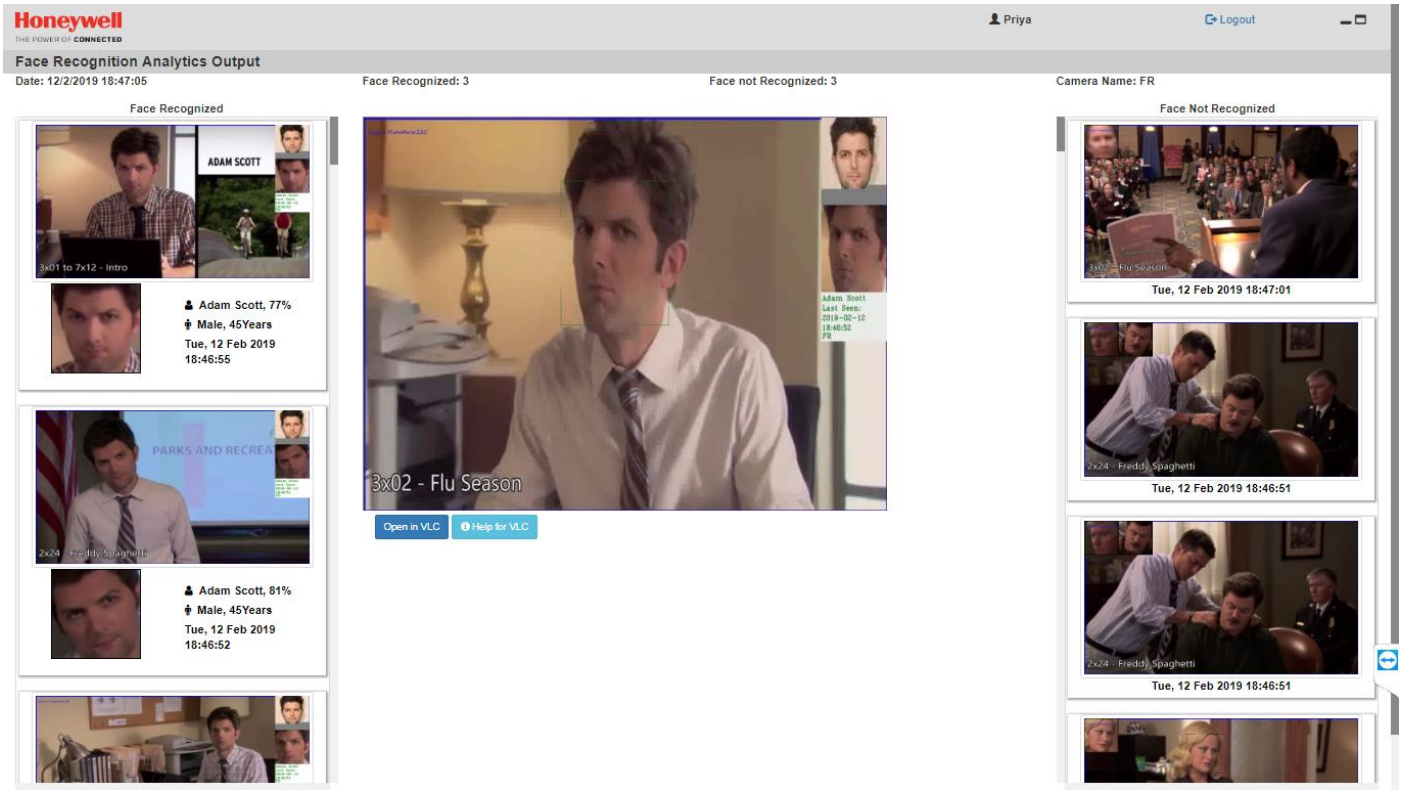

AllGoVision
see. sense. secure
Testing
Logout
Home > Camera List > Camera Registration > VMS
Connect to VMS
VMS
Milestone
Milestone Server URL
http://192.168.10.5:80
Username
Visionserver
Password
Milestone Mobile Server URL
http://192.168.10.5:8081
Enable Milestone MetaData Support
Resolution
Auto
Authentication Type
Windows
Connect


Connect to VMS
VMS
Milestone
Milestone Server URL
http://192.168.10.5:80
Username
Visionserver
Password
Milestone Mobile Server URL
http://192.168.10.5:8081
Enable Milestone MetaData Support
Metadata Port
54321
Resolution
Auto
Authentication Type
Windows
Connect
Getting your Cameras..
© 2019 AllGoVision Technologies Pvt Ltd. All rights reserved.
Version 4.0.10 | Contact Us



License Plate Recognition Video Output

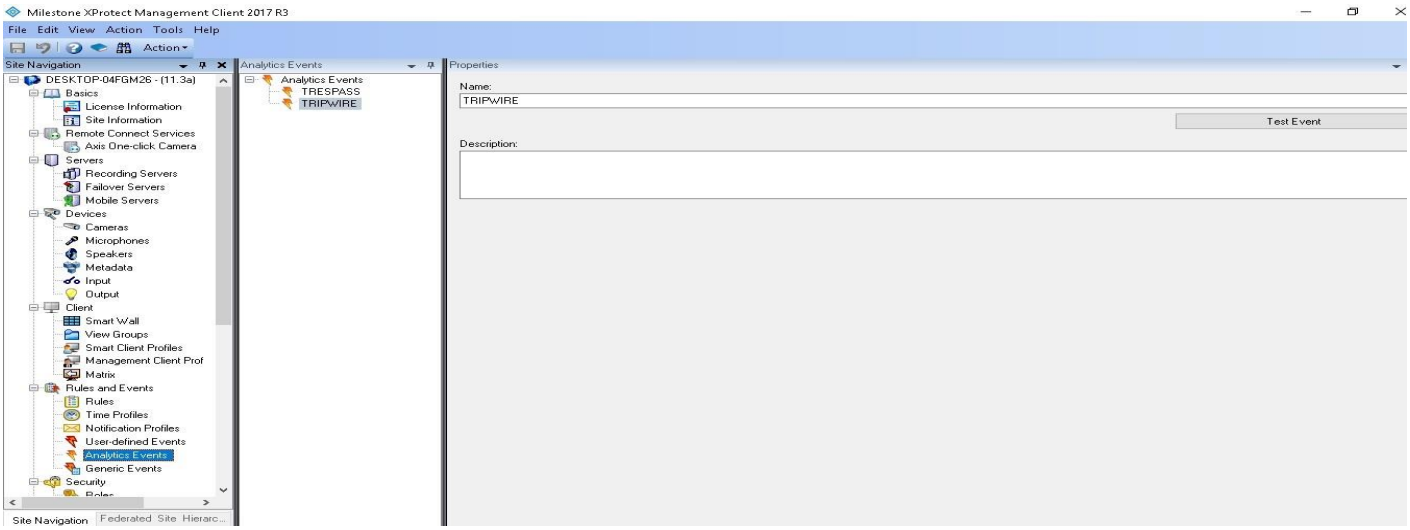
Face Recognition Video Output



EXTERNAL EVENT CONFIGURATION IN MILESTONE

AllGoVision alarms can be used as external events in Milestone to trigger applications like Matrix Pop-up, Sound Alarms, E-mail, Event based Recording, triggering Camera Output etc.

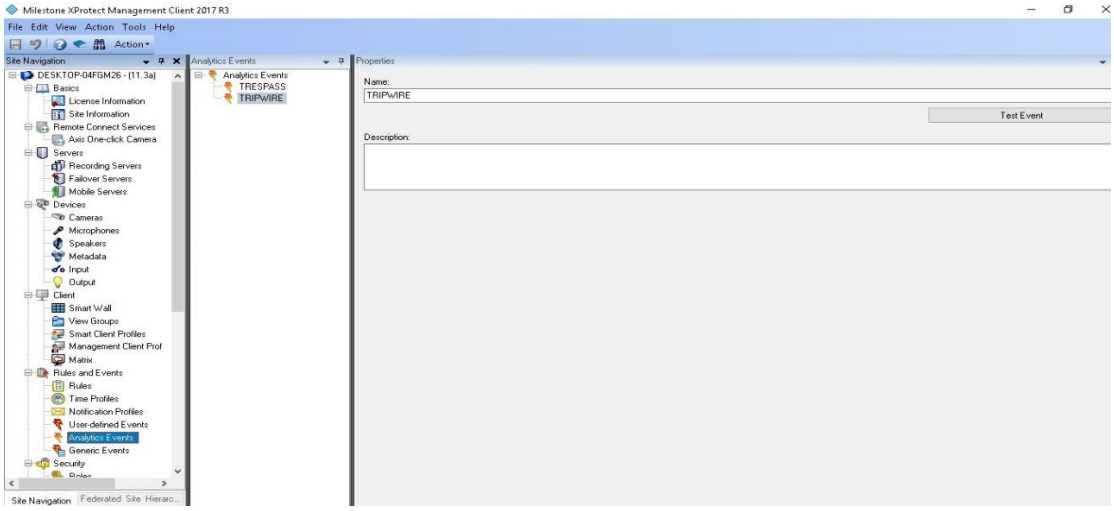
For triggering above mentioned applications in Milestone XProtect Corporate, Analytics events have to be created and then rules need to be defined under Rules and Events



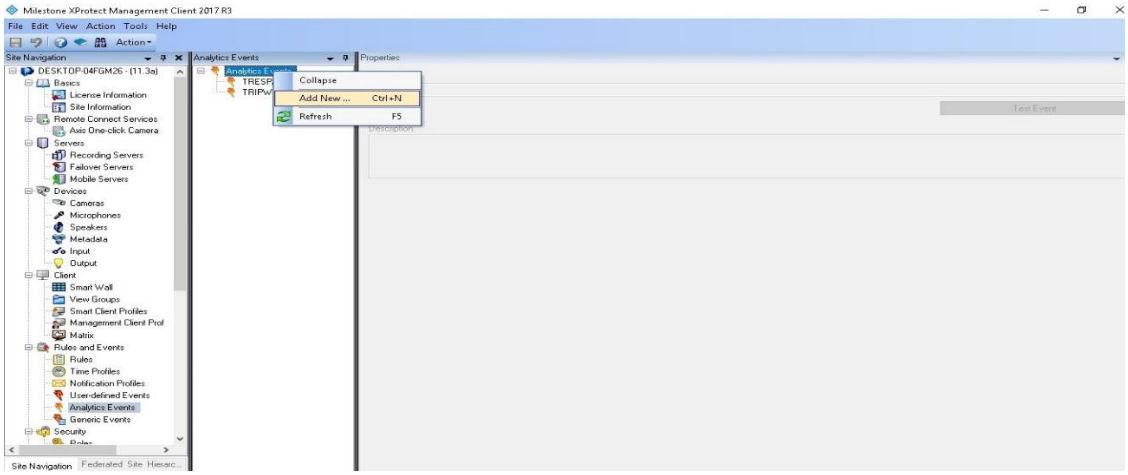
AllGoVision sends external events as "AlarmName_CamerName". For example, if camera name is Highway1 and Loitering application is running in AllGoVision, whenever AllGoVision detects Tripwire alarm, it sends the alarm to Milestone and external event as "Loitering_Highway1".

For example, if we want to generate alarms for Loitering application running in AllGoVision, the below mentioned steps must be followed:

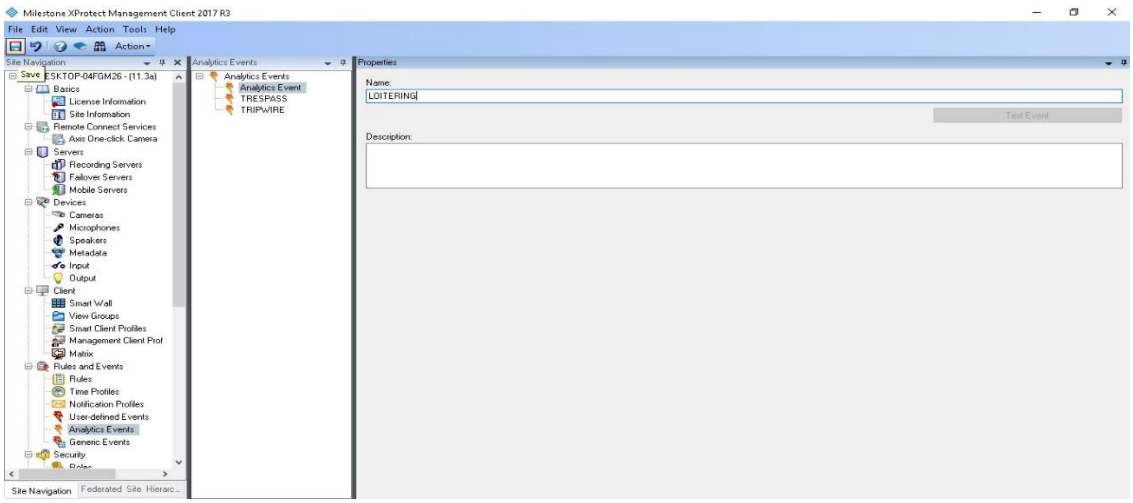
i) Select Analytics Events under Rules and Events tab.



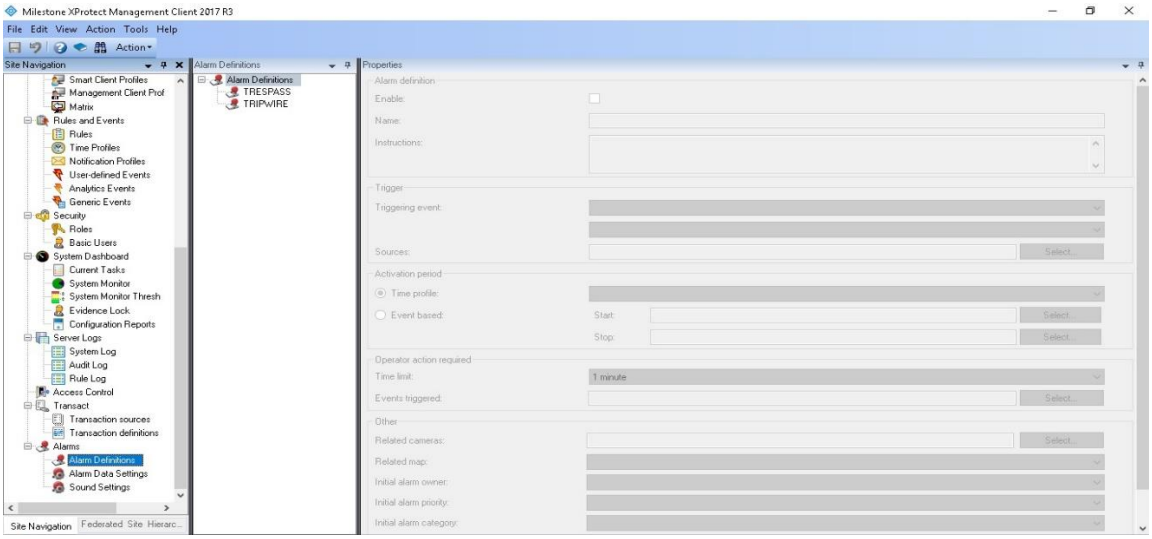
ii) Under Analytics Events tab, right click and select Add New to create a new event.



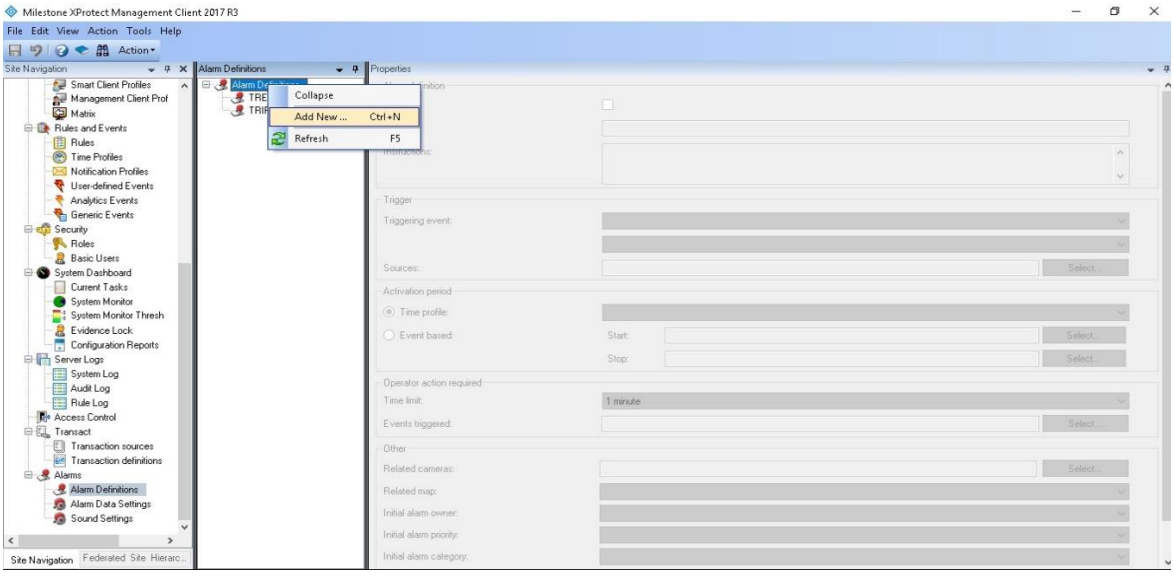
iii) Under Properties tab, mention the required Alarm Name and Description.



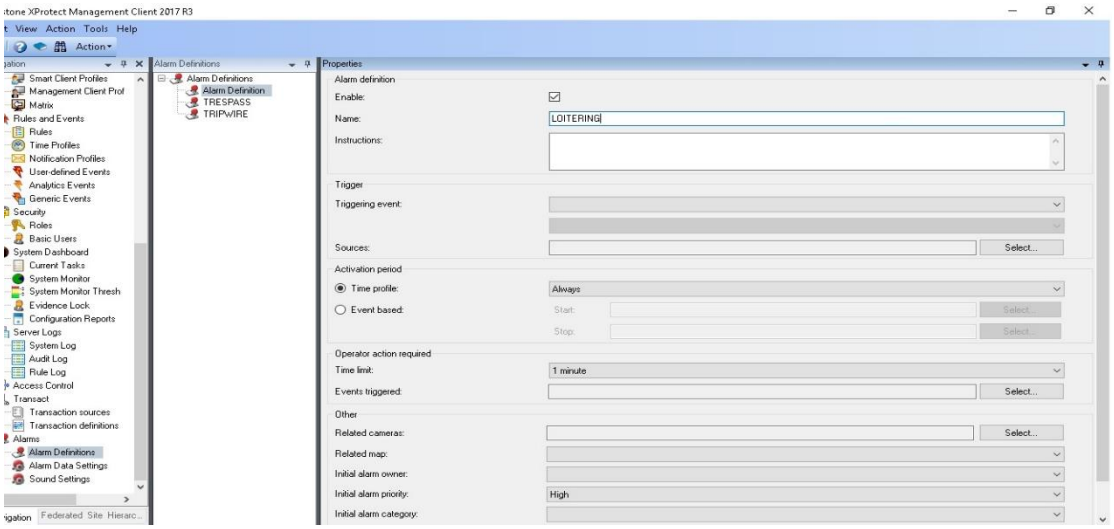
iv) Next, select Alarms from the Site Navigation panel. Choose Alarm Definitions.



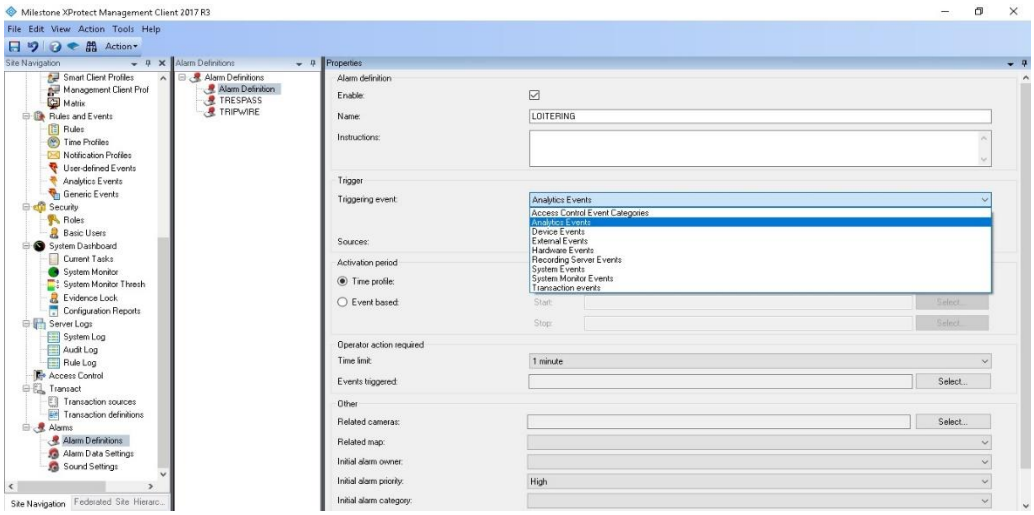
v) Under Alarm Definitions, create a new alarm with the Add New option.



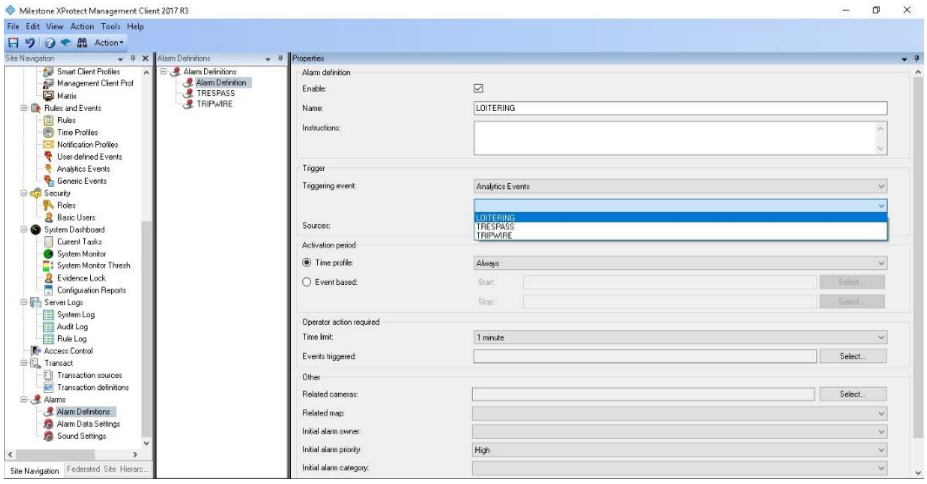
vi) Under the Properties panel, specify the Alarm Name.



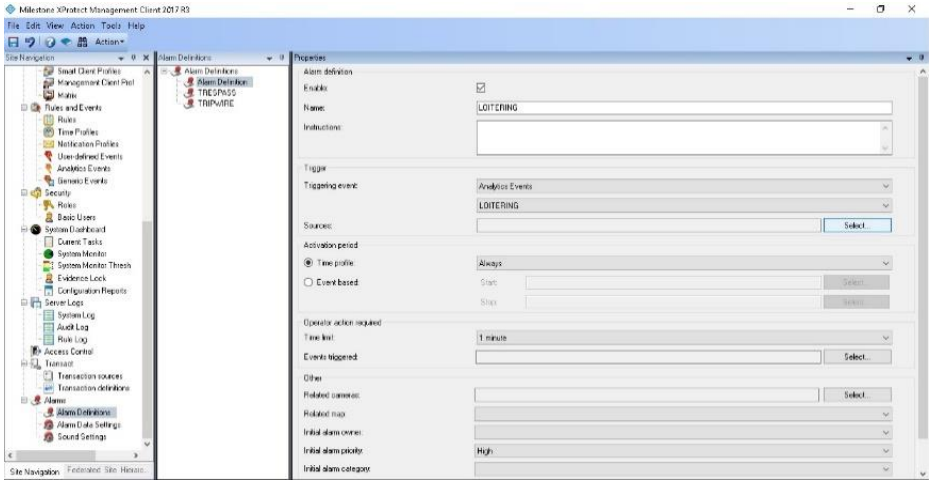
vii) Under Triggering event, select Analytics Events option from the first dropdown

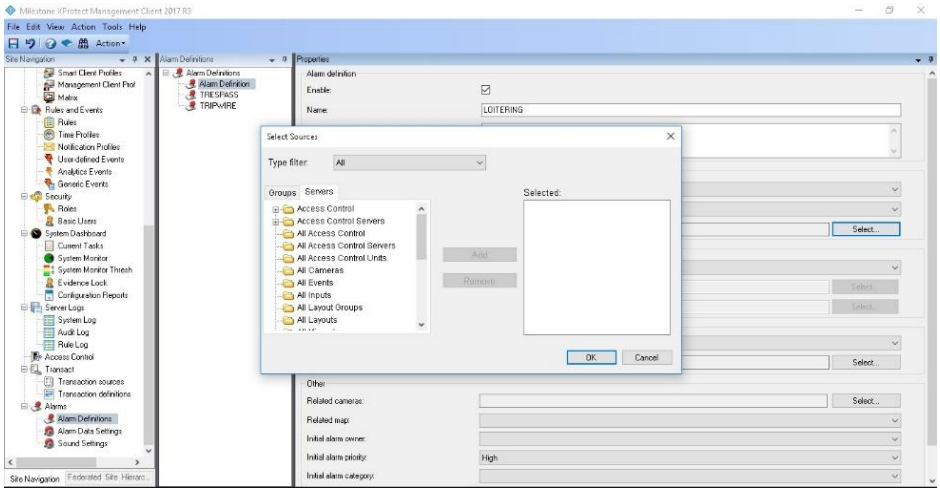


viii) Select Loitering option from the second dropdown.

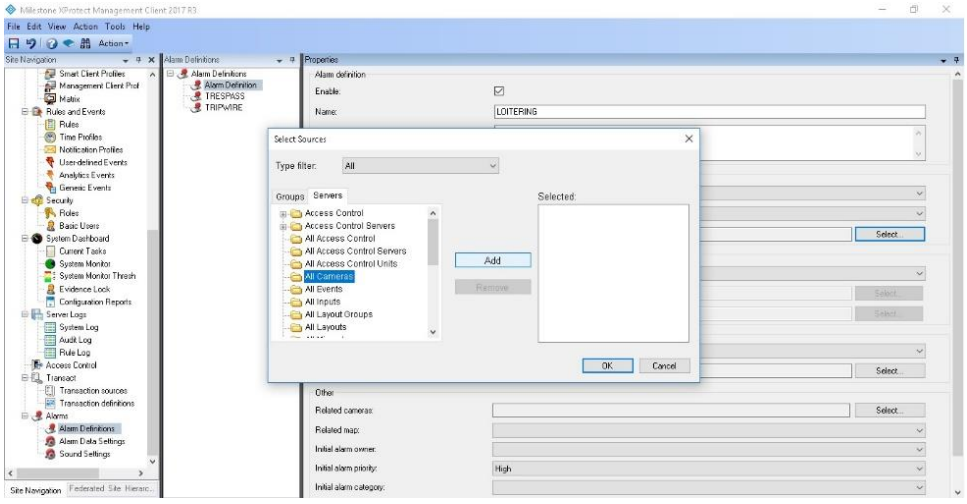


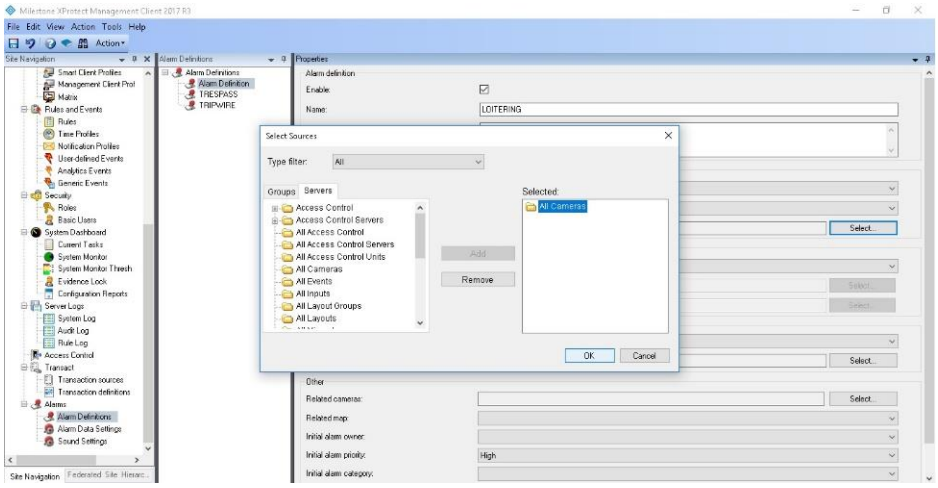
ix) Click on Select.





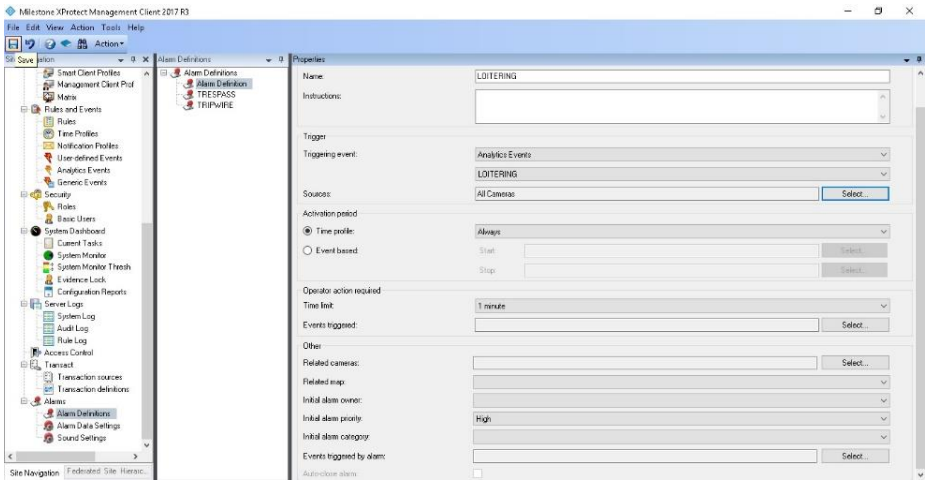
A popup appears, select Servers > All Cameras > Add as shown.





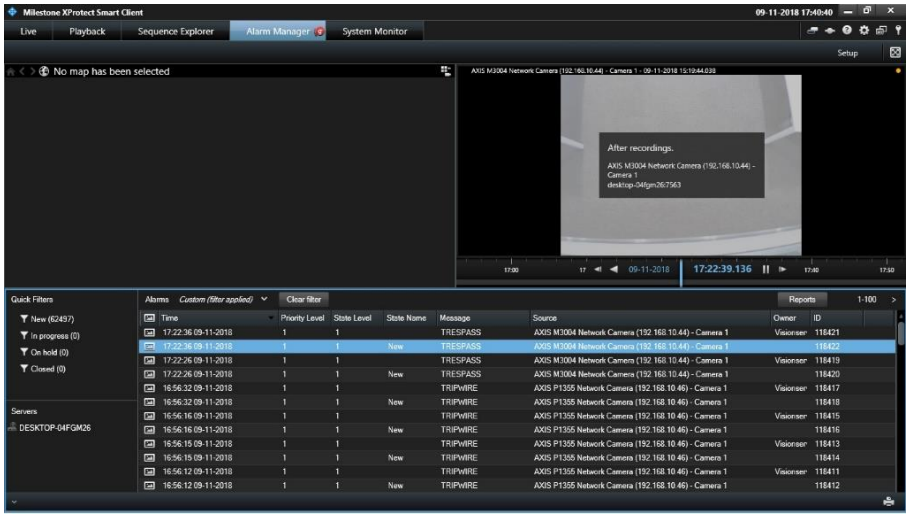
Click on Ok.

x) All other inputs (Time Profile, Time Limit, Initial Alarm Priority) under the Properties panel should reflect as below.



The above nomenclature should be followed for creating an External Event.

xi) The external event would be shown as below in Alarm Manager:



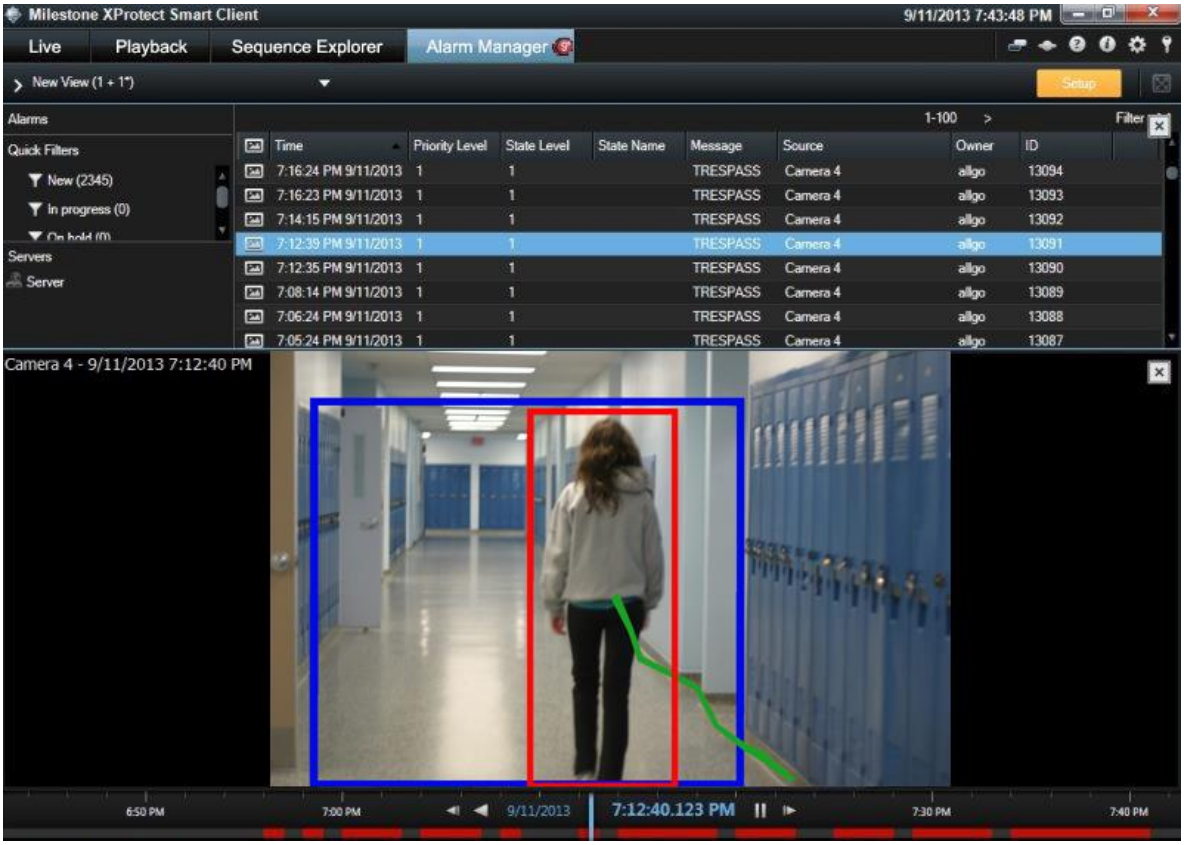
External Event in Milestone Smart Client Alarm Manager

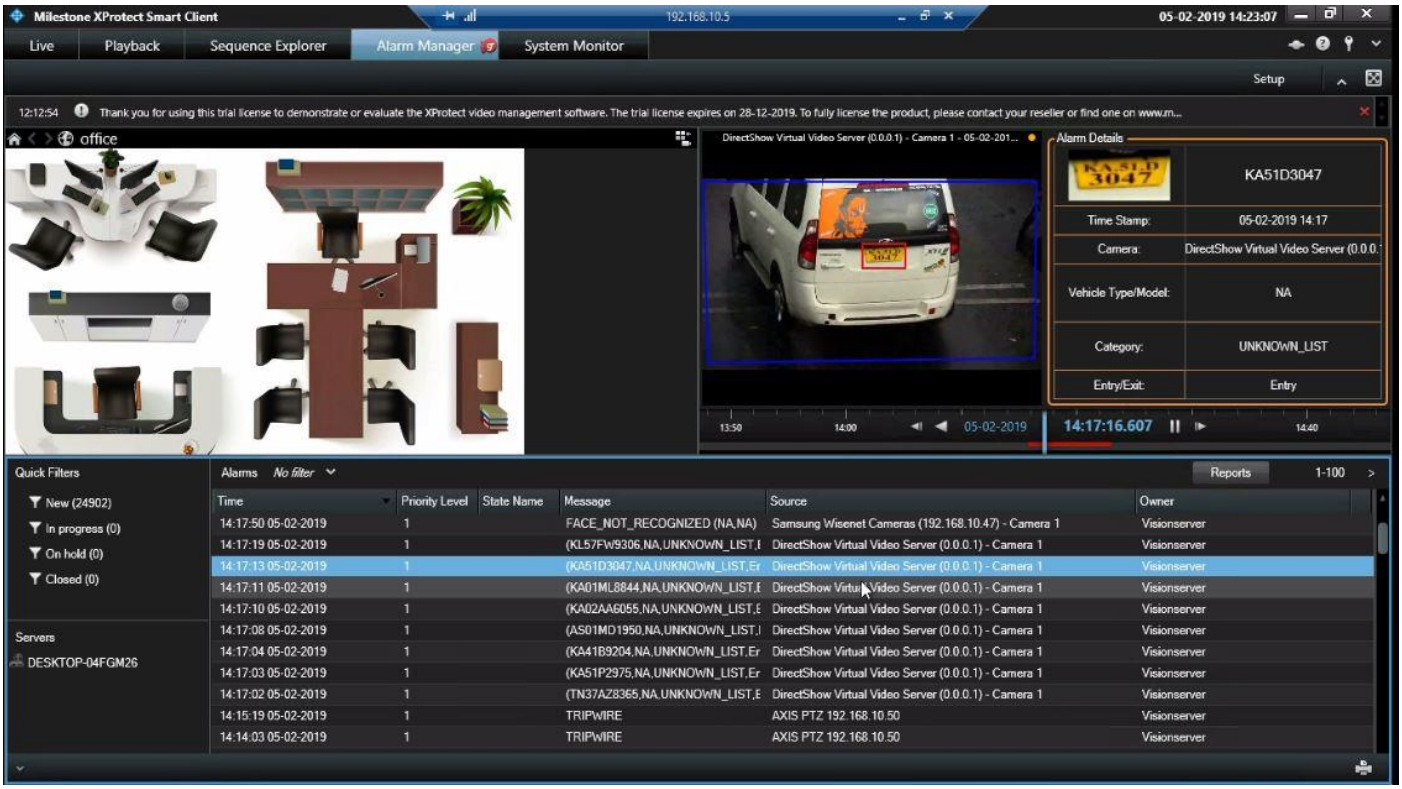
ALARM VIEWING IN MILESTONE SMART CLIENT

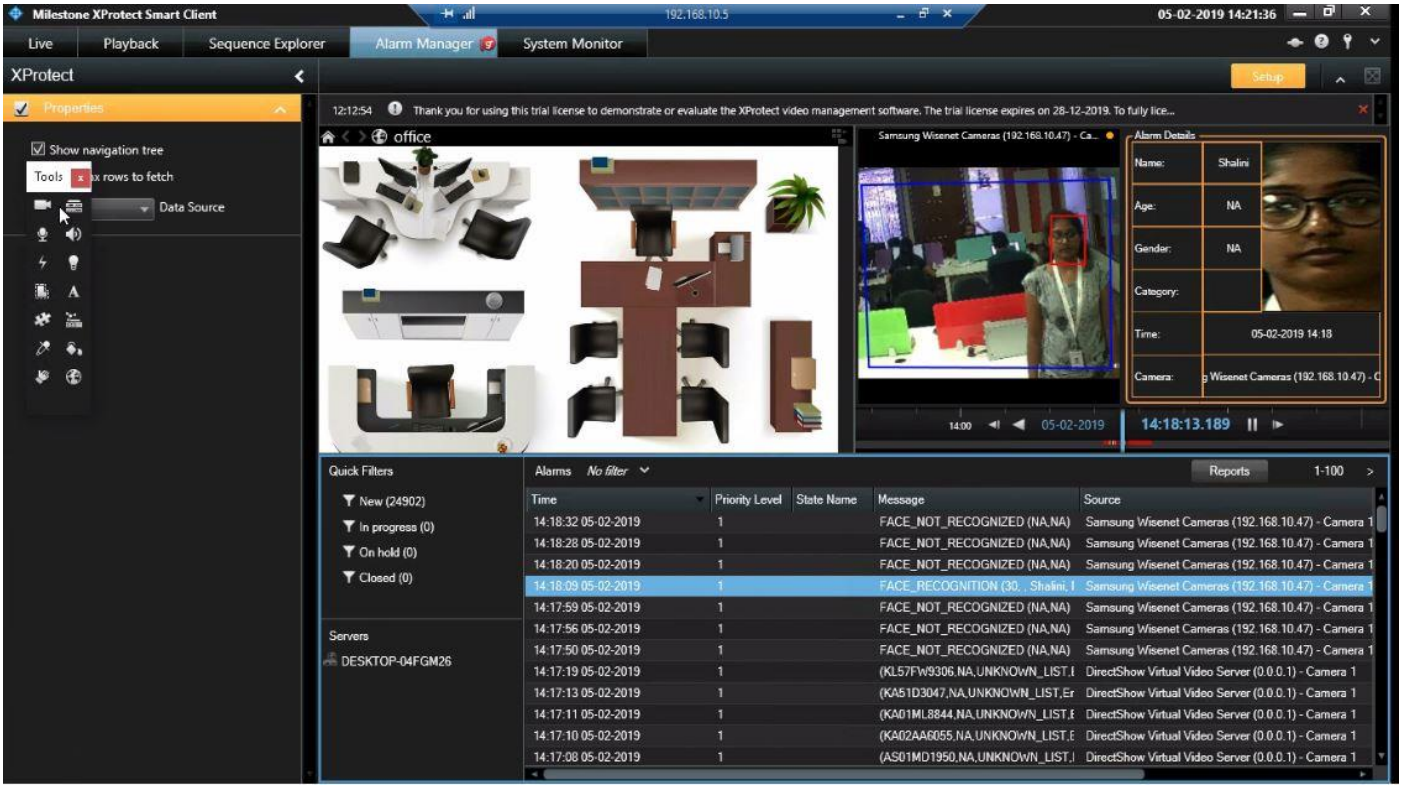
AllGoVision sends Alarms/Events to Event Server of Milestone for storage and viewing in Smart Client application.

Alarms can be viewed in either of the following 2 ways:

1) The Alarm Manager displays alarms in real time and would be able to search alarms.







ANPR/FR Plugin inside Smart Client Under Alarm Manager

2) Alarms sent by AllGoVision can be seen in Live Video of Milestone Smart client

AllGoVision provides plugins for live view alarm, popup and alarm playback.

The plugins need to be copied to below destination folder:

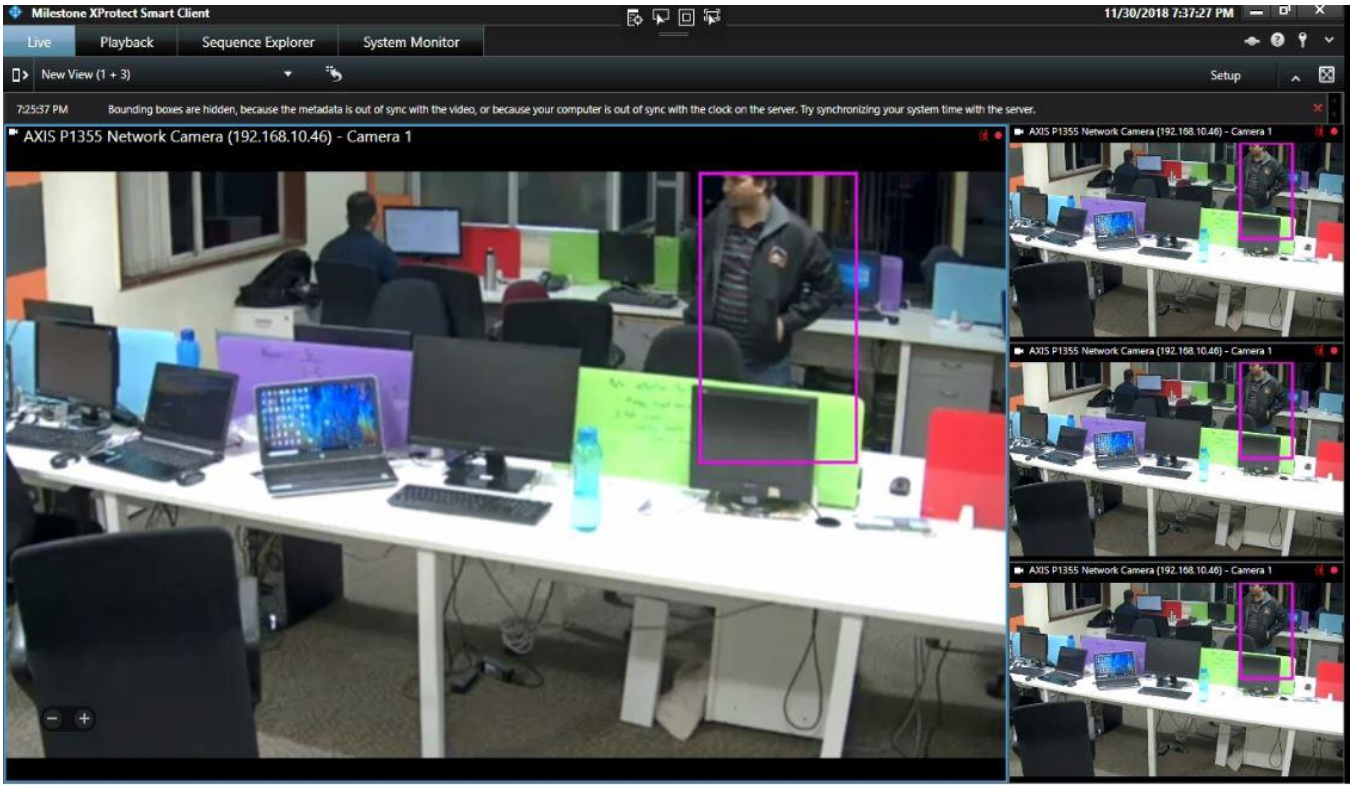
If Smart Client is 32 bit application:

C > Program Files (x86) > Milestone > XProtect Smart Client > MIP Plugins

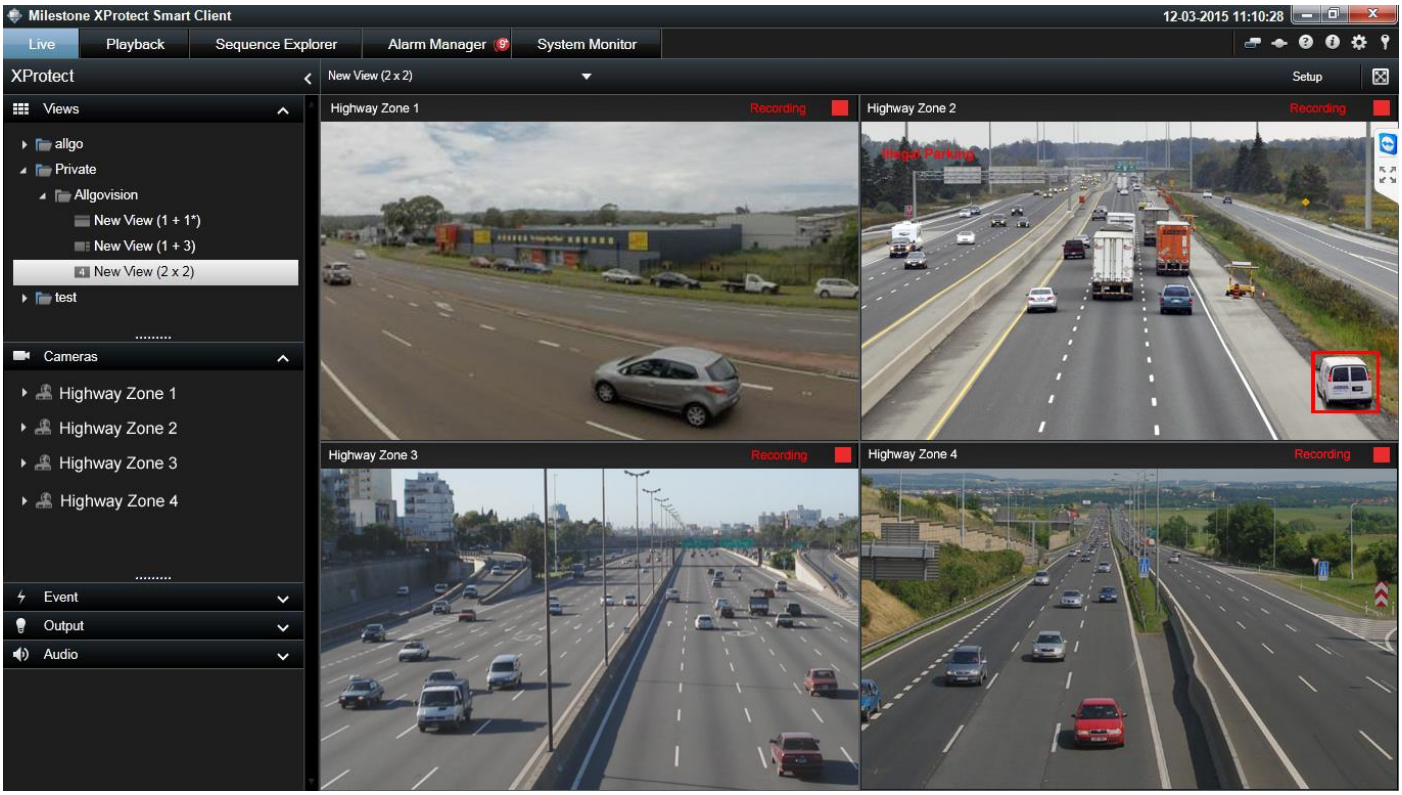
If Smart Client is 64 bit application:

C > Program Files > Milestone > XProtect Smart Client > MIP Plugins

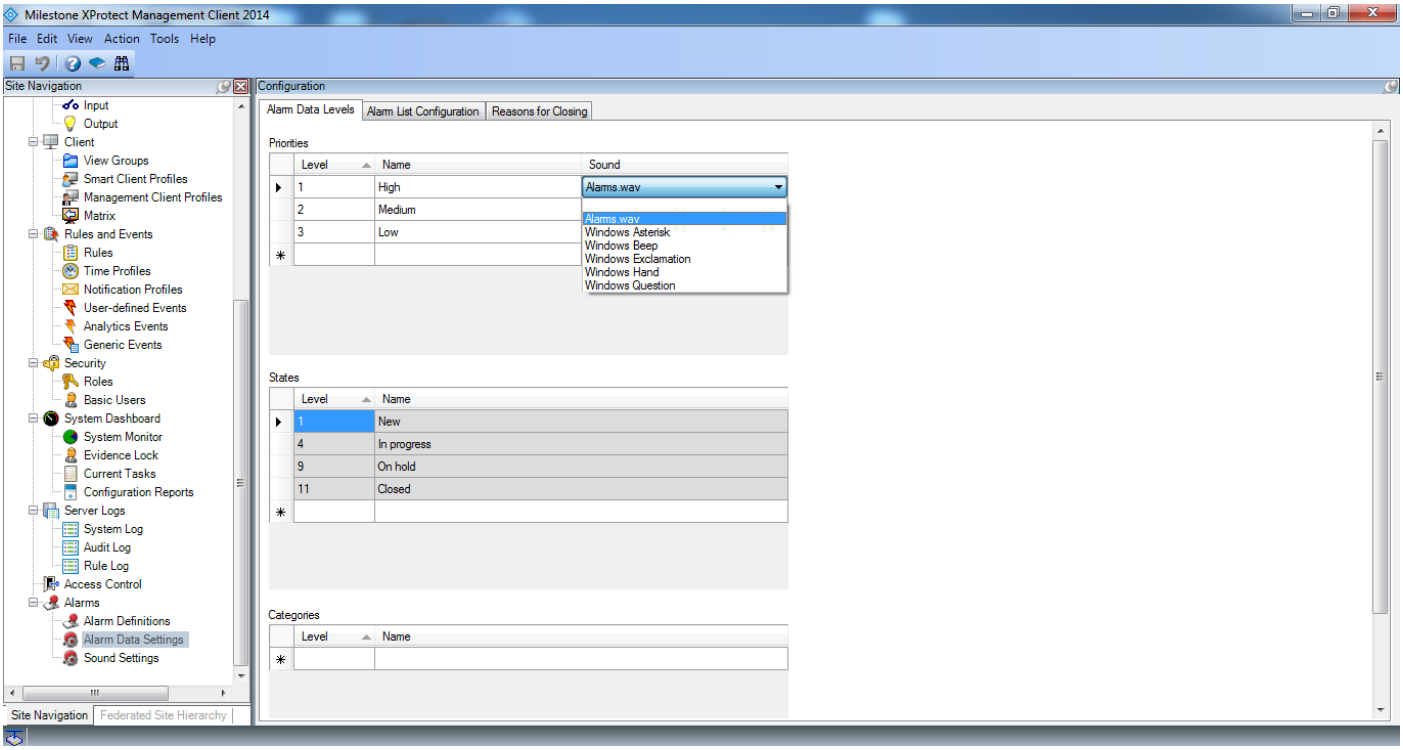
The alarms are shown on the Live Video



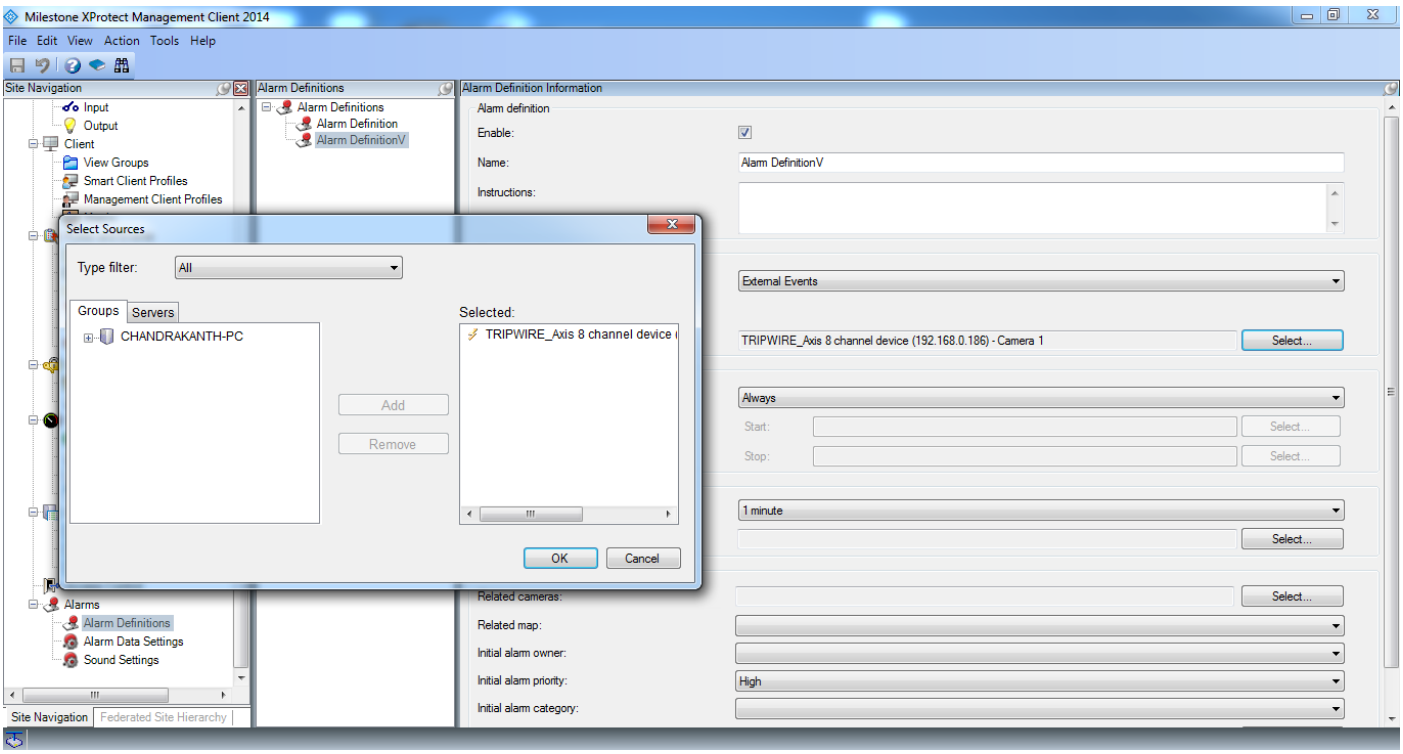
Metadata output in Smart Client Live View



For creating sound on alarms, select Sound for Alarm Priorities in Alarm Data Levels under Alarms > Alarm Data Settings.

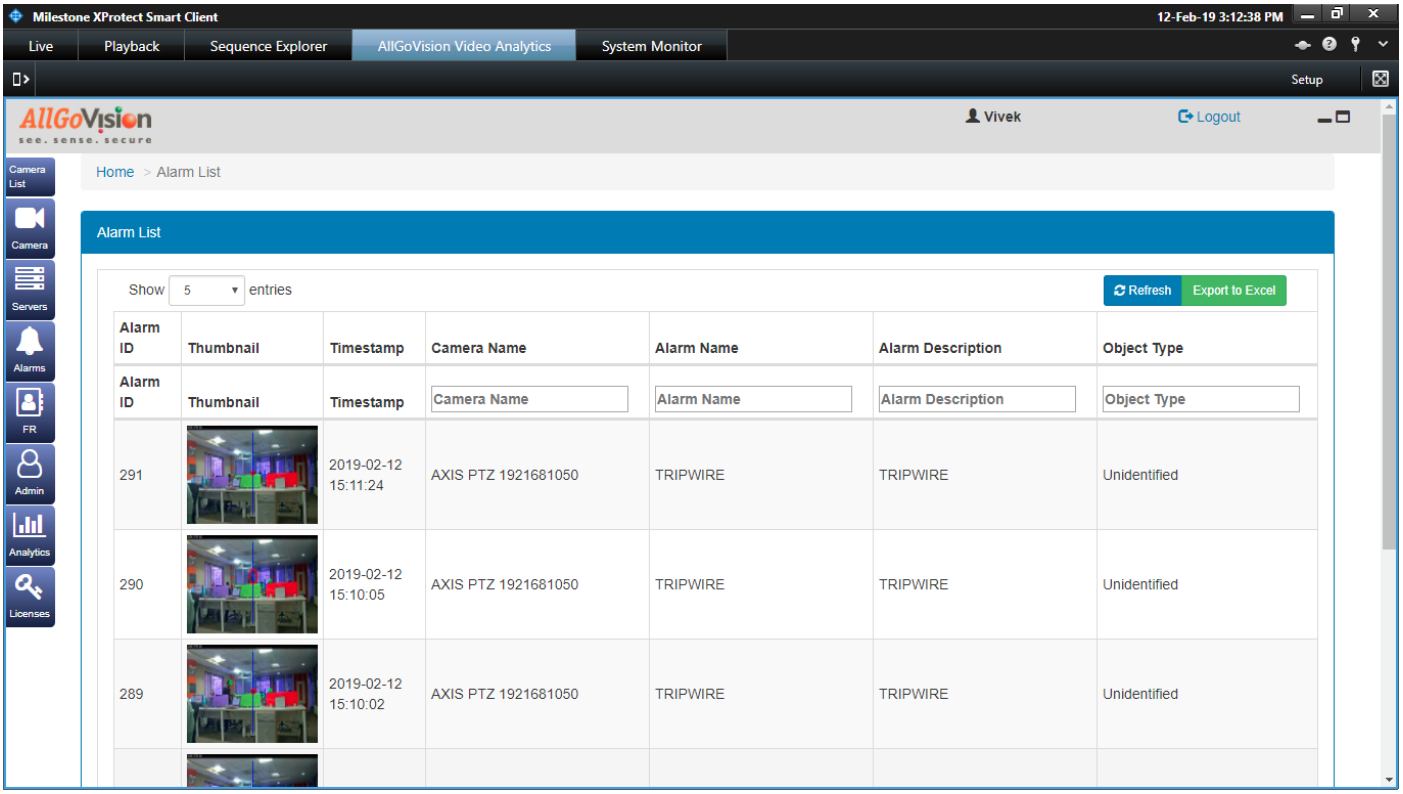


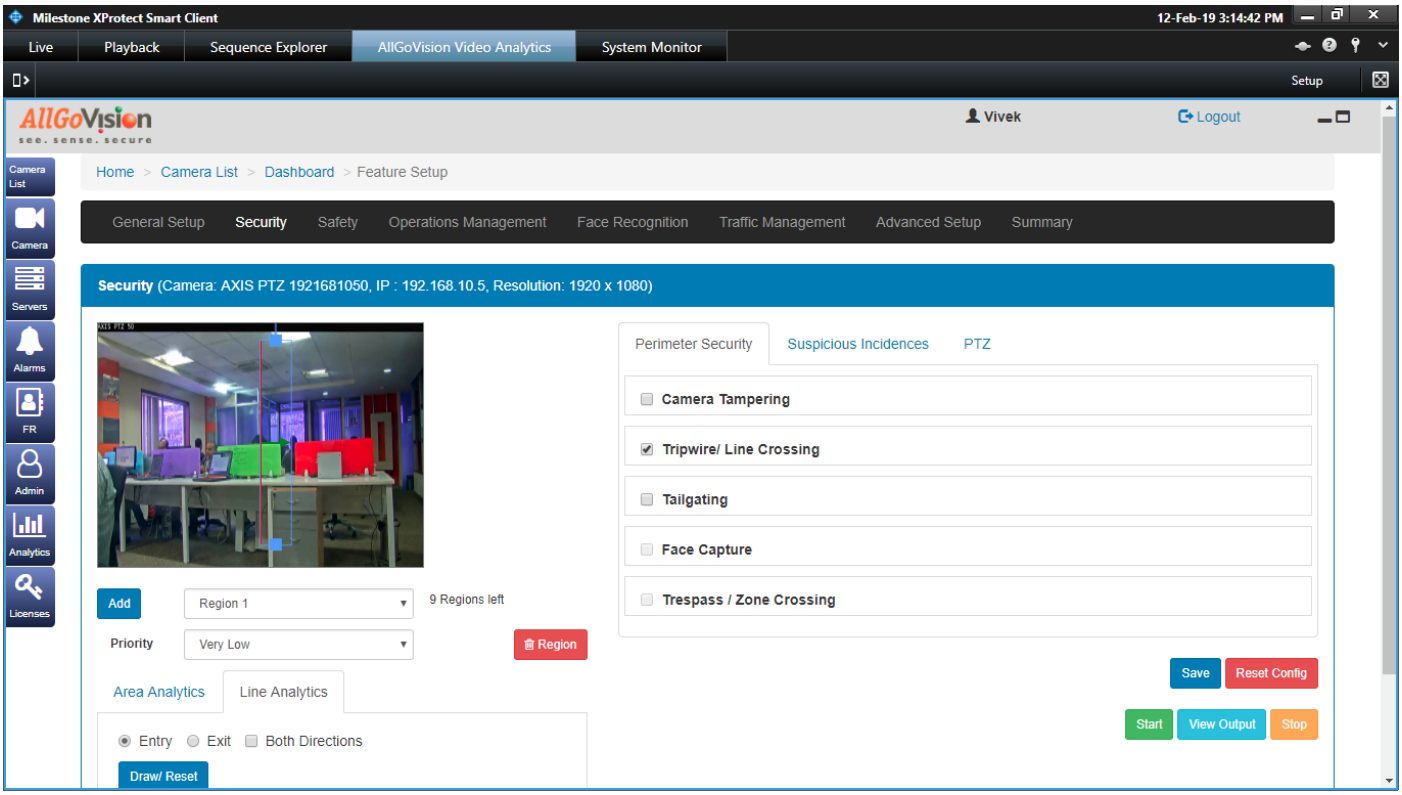
Then go to Alarms > Alarm Definitions, select External Events, and select the event name from the list of External Events, set time for alarm sound and alarm priority.



For more details on external event creation and setting rules, refer Milestone XProtect Administrator's Manual

Note: AllGoVision provides a workspace for Milestone Smart Client which hosts our Web UI. A user can also perform all the operations required for configuration and viewing the alarms .




Milestone XProtect Smart Client
12-Feb-19 3:14:42 PM
Live
Playback
Sequence Explorer
AllGoVision Video Analytics
System Monitor
Setup
AllGoVision
see. sense. secure
Vivek
Logout
Camera List
Camera
Servers
Alarms
FR
Admin
Analytics
Licenses
Home > Camera List > Dashboard > Feature Setup
General Setup
Security
Safety
Operations Management
Face Recognition
Traffic Management
Advanced Setup
Summary
Security (Camera: AXIS PTZ 1921681050, IP : 192.168.10.5, Resolution: 1920 x 1080)
Perimeter Security
Suspicious Incidences
PTZ
Camera Tampering
Tripwire/ Line Crossing
Tailgating
Face Capture
Trespass / Zone Crossing
Add
Region 1
9 Regions left
Priority
Very Low
Region
Area Analytics
Line Analytics
Entry
Exit
Both Directions
Draw/ Reset
Save
Reset Config
Start
View Output
Stop