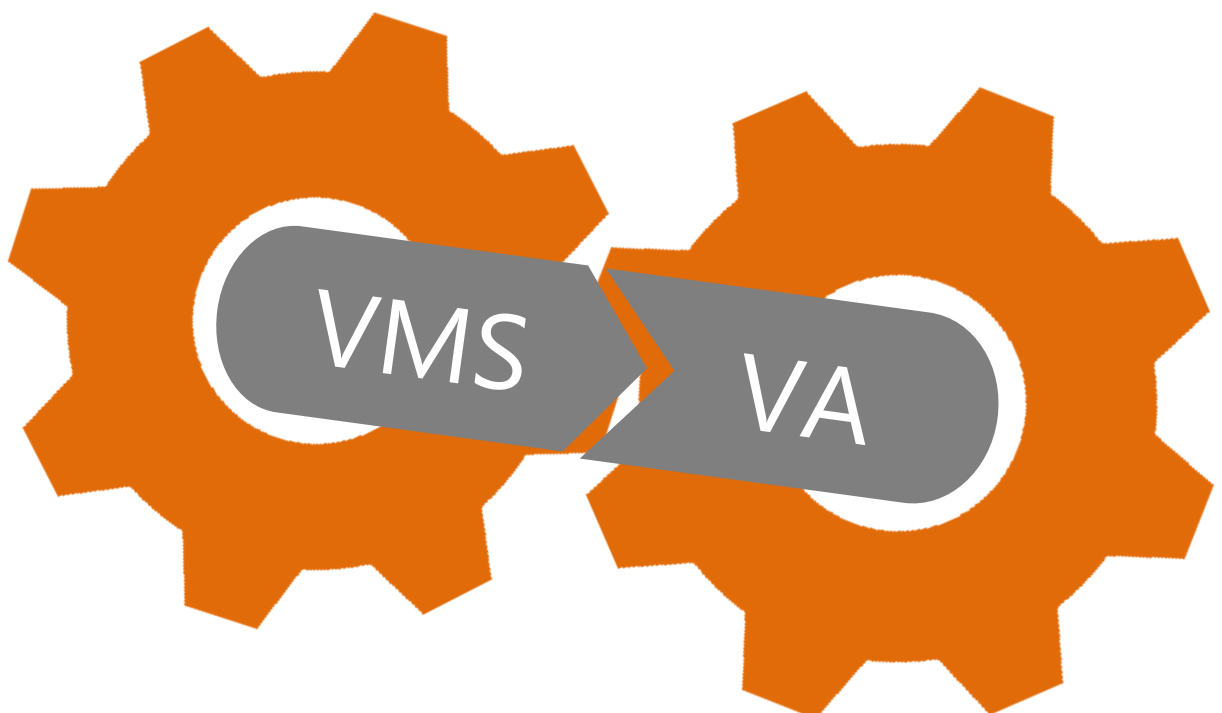


## VMS Integration Document

### AllGoVision Video Analytics | Milestone VMS

Version 4.5

Release Date: March 2021



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## 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 AllGoVision software 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 XProtect.

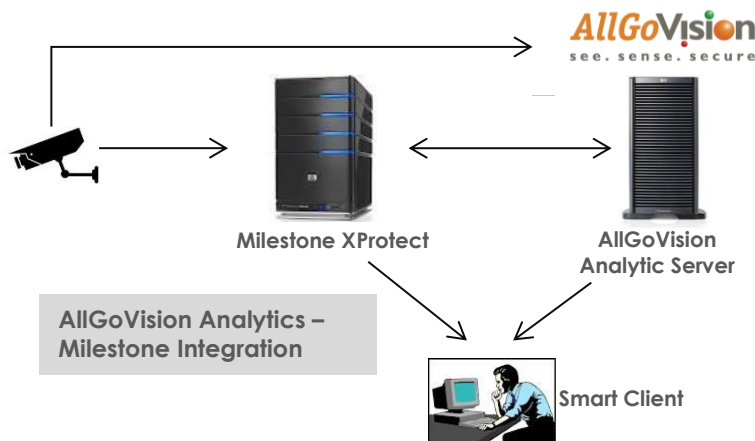
## SYSTEM REQUIREMENT

AllGoVision analytics has the following system hardware and software requirements.

| CATEGORY                                                       | REQUIREMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System                                               | ubuntu 18.04<br><b>Server:</b> Ubuntu 18.04 LTS server                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Network                                                        | Ethernet, 1 Gbit or higher recommended.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Hardware Requirement<br>Server requirement                     | x86 Platform, 64 bit, AVX2 support 6 <sup>th</sup> Gen or higher<br><br>Core i7 (6 Cores), 3 GHz, 32 GB RAM for up to 15 channels<br>Xeon 6 core, 3 GHz, 32 GB RAM for up to 15 channels<br>Xeon 12 core, 3 GHz, 64 GB RAM for up to 30 channels<br>(approx. 2.5 channels per core, suitable to add multiple CPUs in single server)<br>Supports Nvidia GPU acceleration for all DL based features<br><b>Note:</b> Actual Configuration will be based on the use-cases and features |
| Frame Rate Requirement                                         | > 8 fps for Security Analytics (Perimeter Protection/Intrusion), Face Recognition<br>>15 fps for PTZ Analytics, People Counting, Traffic features and LPR.                                                                                                                                                                                                                                                                                                                         |
| Stand Alone version camera support<br>(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).<br>Any other camera requires URL to connect camera and get video feed.<br>Supports MJPEG, H.264, MPEG4<br>Supports ONVIF camera, ONVIF PTZ control                                                                                                                                        |
| VMS Software                                                   | Milestone (Express+/Expert/Professional+/Essential+/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 from Milestone XProtect.
- AllGoVision send alarms to Smart Client application.



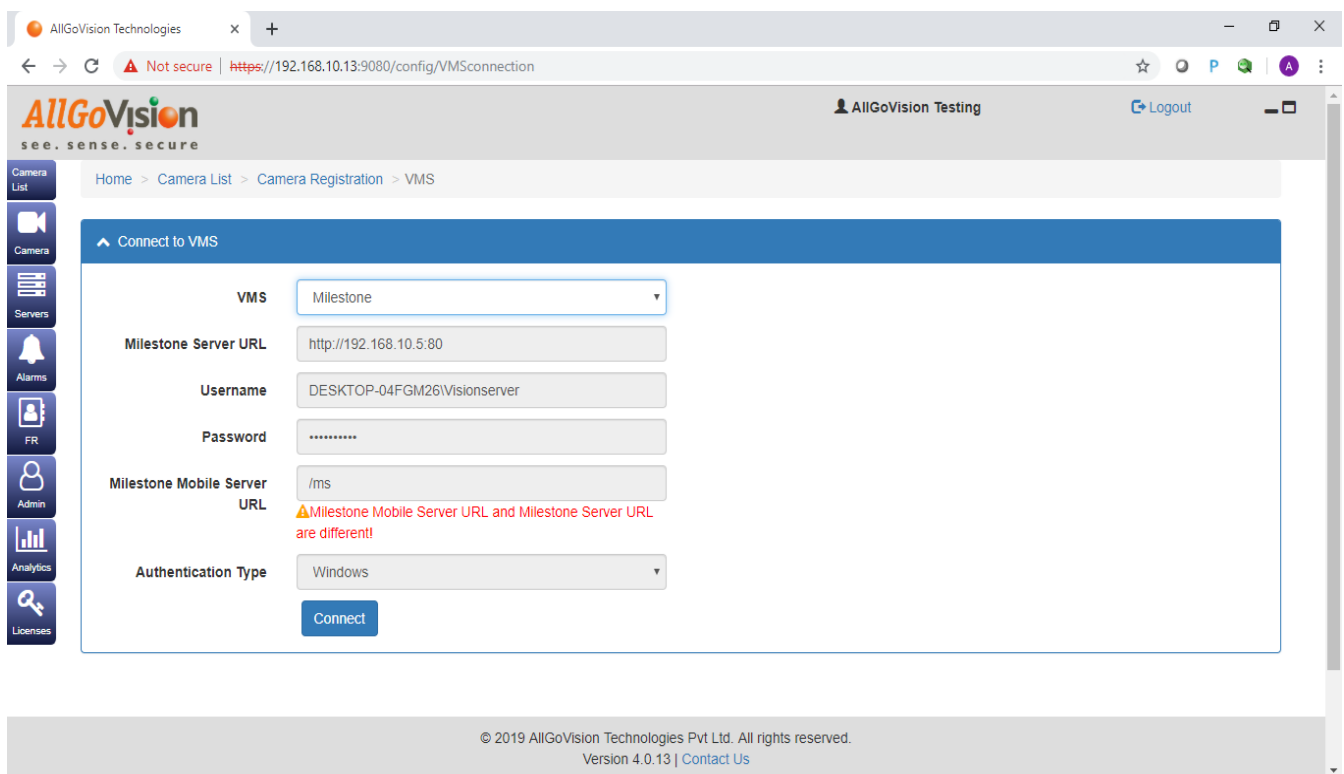
### AllGoVision Management client

1. AllGoVision Management client connects to Milestone and gets video feed
2. The analytic rules are set in AllGoVision Management client and started as service
3. The alarms are sent to Event server of Milestone
4. AllGoVision sends events to Milestone as well
5. AllGoVision sends metadata to Milestone so that it can be seen in Live view
6. AllGoVision provides plugin for ANPR and FR to view alarms with details for Smart Client

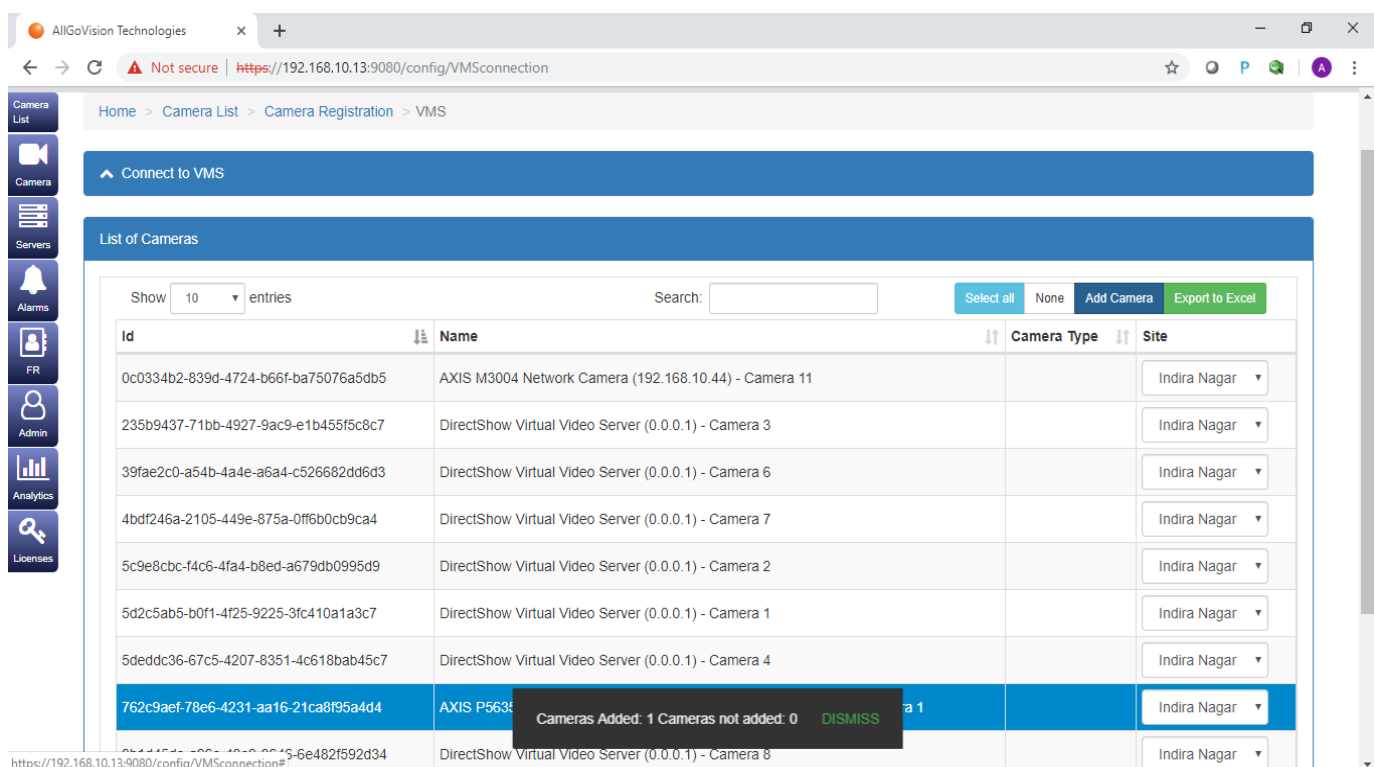
## Configuration needed in AllGoVision Client for Milestone Integration

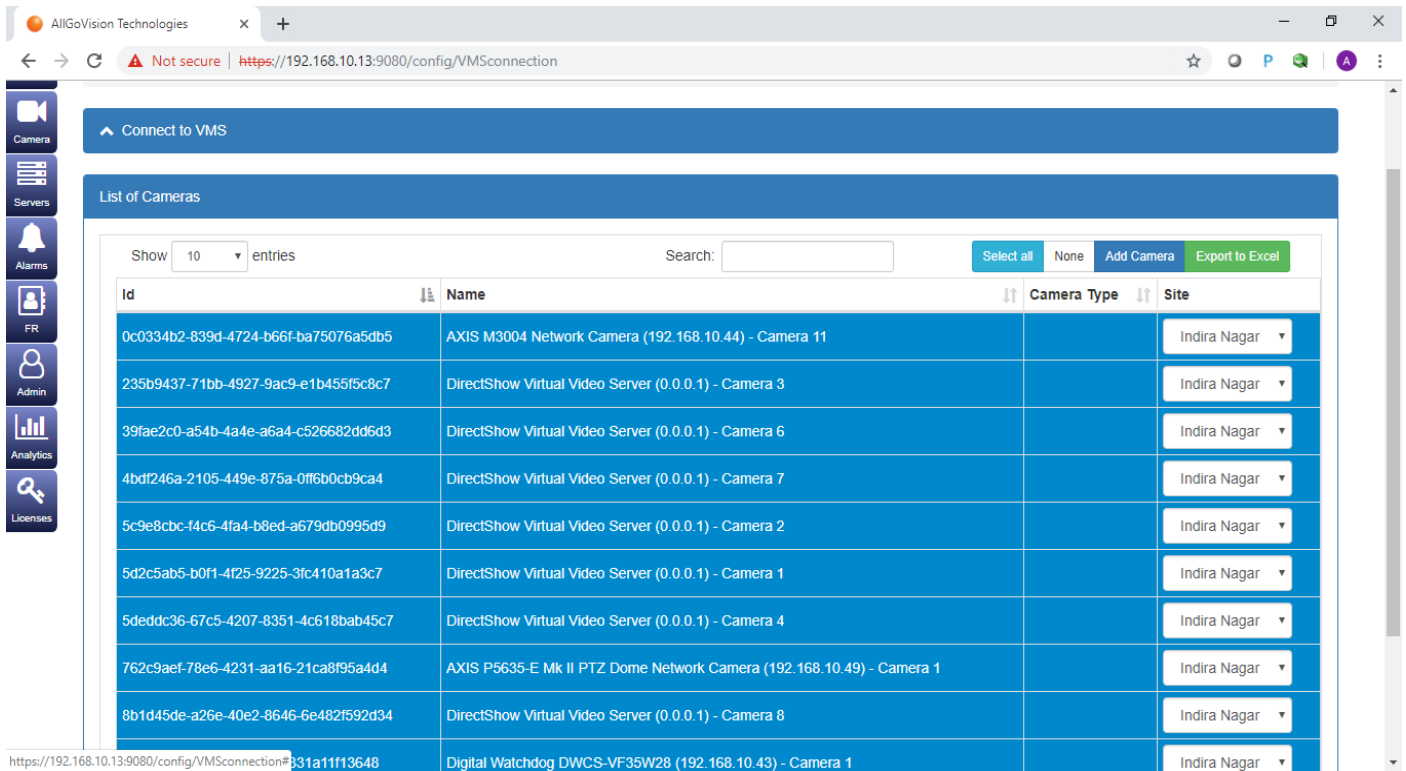
The screenshot shows the 'Camera Registration' page in the AllGoVision Client. The page has a sidebar with navigation links: Camera List, Camera, Servers, Alarms, FR, Admin, Analytics, and Licenses. The main content area is titled 'Camera Registration' and contains four buttons: 'Scan for cameras' (with a magnifying glass icon), 'Manually register cameras' (with a plus icon), 'Add Recorded Video' (with a video file icon), and 'Connect to VMS' (with a plug icon). Below each button is a brief description of its function. The footer of the page displays the copyright notice: '© 2019 AllGoVision Technologies Pvt Ltd. All rights reserved. Version 4.0.13 | Contact Us'.

The screenshot shows the 'Connect to VMS' page in the AllGoVision Client. The page has a sidebar with navigation links: Camera List, Camera, Servers, Alarms, FR, Admin, Analytics, and Licenses. The main content area is titled 'Connect to VMS' and contains a 'VMS' dropdown menu. The dropdown menu is open, showing a list of VMS providers: Select VMS, Maxpro, Samsung, Bosch, Wave Store, Verint Nextiva, Honeywell DVM, DW Spectrum, Milestone (highlighted), Cisco VSM, Honeywell EBI, Genetec, PSIA compliant VMS, Network Optix, and IndigoVision. The footer of the page displays the copyright notice: '© 2019 AllGoVision Technologies Pvt Ltd. All rights reserved. Version 4.0.13 | Contact Us'.



1. Upon successful connection to Milestone it will list all the cameras which are added in the Milestone server as show in the below pic.
2. User can add cameras one-by-one or can select all cameras & add at once.





Connect to VMS

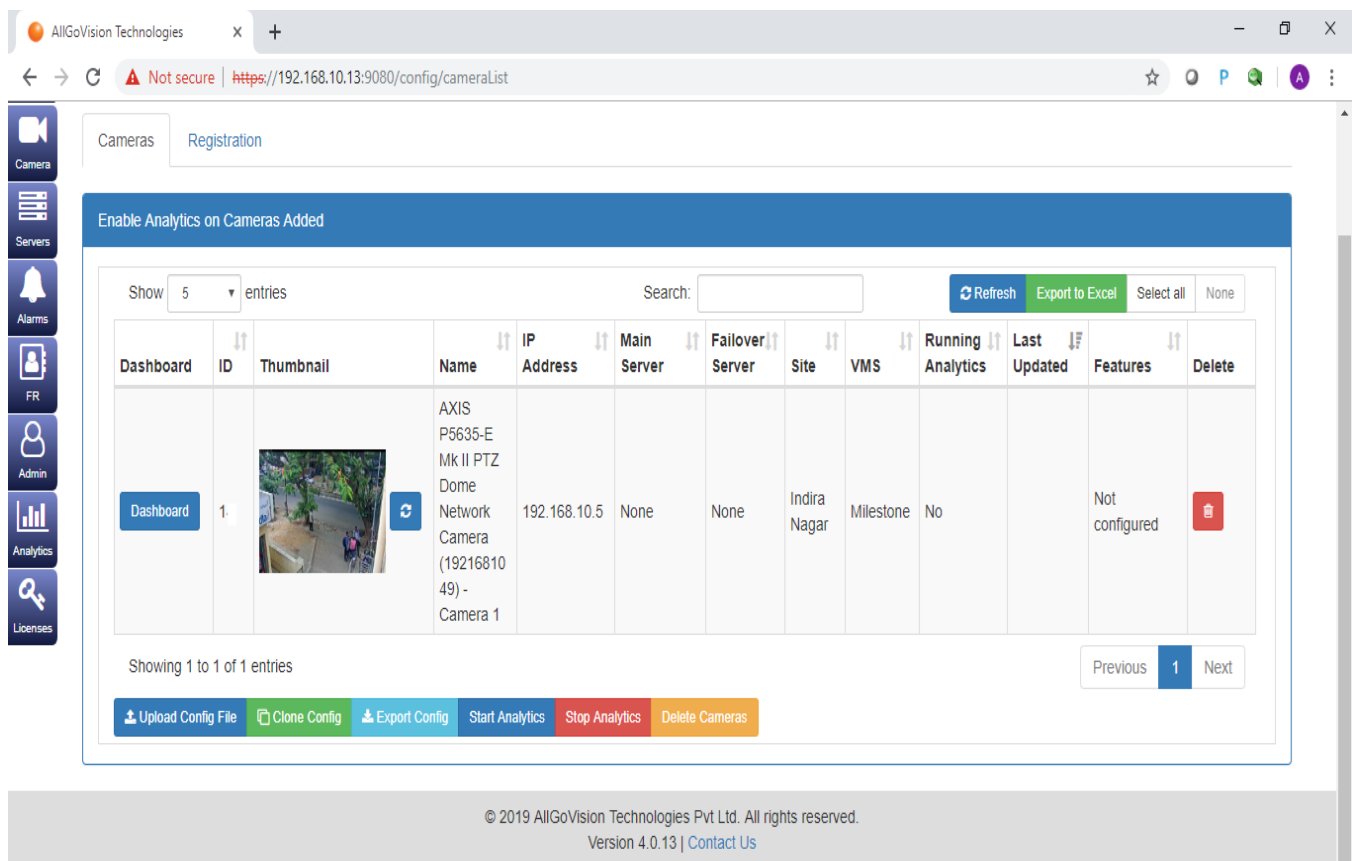
List of Cameras

Show 10 entries Search:

Select all None Add Camera Export to Excel

| Id                                   | Name                                                                  | Camera Type | Site         |
|--------------------------------------|-----------------------------------------------------------------------|-------------|--------------|
| 0c0334b2-839d-4724-b66f-ba75076a5db5 | AXIS M3004 Network Camera (192.168.10.44) - Camera 11                 |             | Indira Nagar |
| 235b9437-71bb-4927-9ac9-e1b455f5c8c7 | DirectShow Virtual Video Server (0.0.0.1) - Camera 3                  |             | Indira Nagar |
| 39fae2c0-a54b-4a4e-a6a4-c526682dd6d3 | DirectShow Virtual Video Server (0.0.0.1) - Camera 6                  |             | Indira Nagar |
| 4bdf246a-2105-449e-875a-0ff6b0cb9ca4 | DirectShow Virtual Video Server (0.0.0.1) - Camera 7                  |             | Indira Nagar |
| 5c9e8cbc-f4c6-4fa4-b8ed-a679db0995d9 | DirectShow Virtual Video Server (0.0.0.1) - Camera 2                  |             | Indira Nagar |
| 5d2c5ab5-b0f1-4f25-9225-3fc410a1a3c7 | DirectShow Virtual Video Server (0.0.0.1) - Camera 1                  |             | Indira Nagar |
| 5deddc36-67c5-4207-8351-4c618bab45c7 | DirectShow Virtual Video Server (0.0.0.1) - Camera 4                  |             | Indira Nagar |
| 762c9aef-78e6-4231-aa16-21ca8f95a4d4 | AXIS P5635-E Mk II PTZ Dome Network Camera (192.168.10.49) - Camera 1 |             | Indira Nagar |
| 8b1d45de-a26e-40e2-8646-6e482f592d34 | DirectShow Virtual Video Server (0.0.0.1) - Camera 8                  |             | Indira Nagar |
| 331a11f13648                         | Digital Watchdog DWCS-VF35W28 (192.168.10.43) - Camera 1              |             | Indira Nagar |

3. All milestone cameras added will be listed in the camera list.



Cameras Registration

Enable Analytics on Cameras Added

Show 5 entries Search:

Refresh Export to Excel Select all None

| Dashboard | ID | Thumbnail                                                                           | Name                                                                  | IP Address   | Main Server | Failover Server | Site         | VMS       | Running Analytics | Last Updated | Features       | Delete                                                                                |
|-----------|----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------|-------------|-----------------|--------------|-----------|-------------------|--------------|----------------|---------------------------------------------------------------------------------------|
| Dashboard | 1  |  | AXIS P5635-E Mk II PTZ Dome Network Camera (192.168.10.49) - Camera 1 | 192.168.10.5 | None        | None            | Indira Nagar | Milestone | No                |              | Not configured |  |

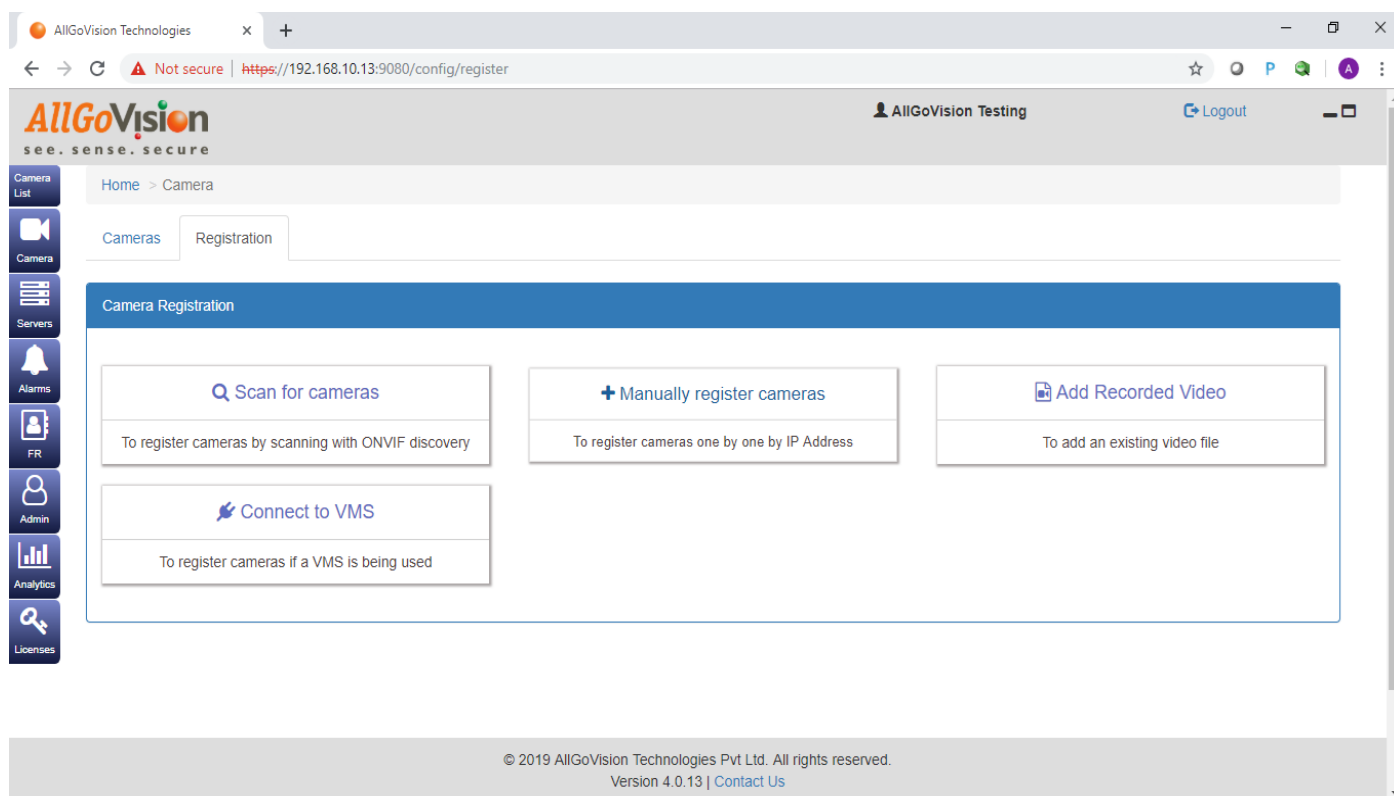
Showing 1 to 1 of 1 entries

Previous 1 Next

Upload Config File Clone Config Export Config Start Analytics Stop Analytics Delete Cameras

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4. Map PTZ or direct camera to Milestone camera through "Manually Register cameras"



Home > Camera

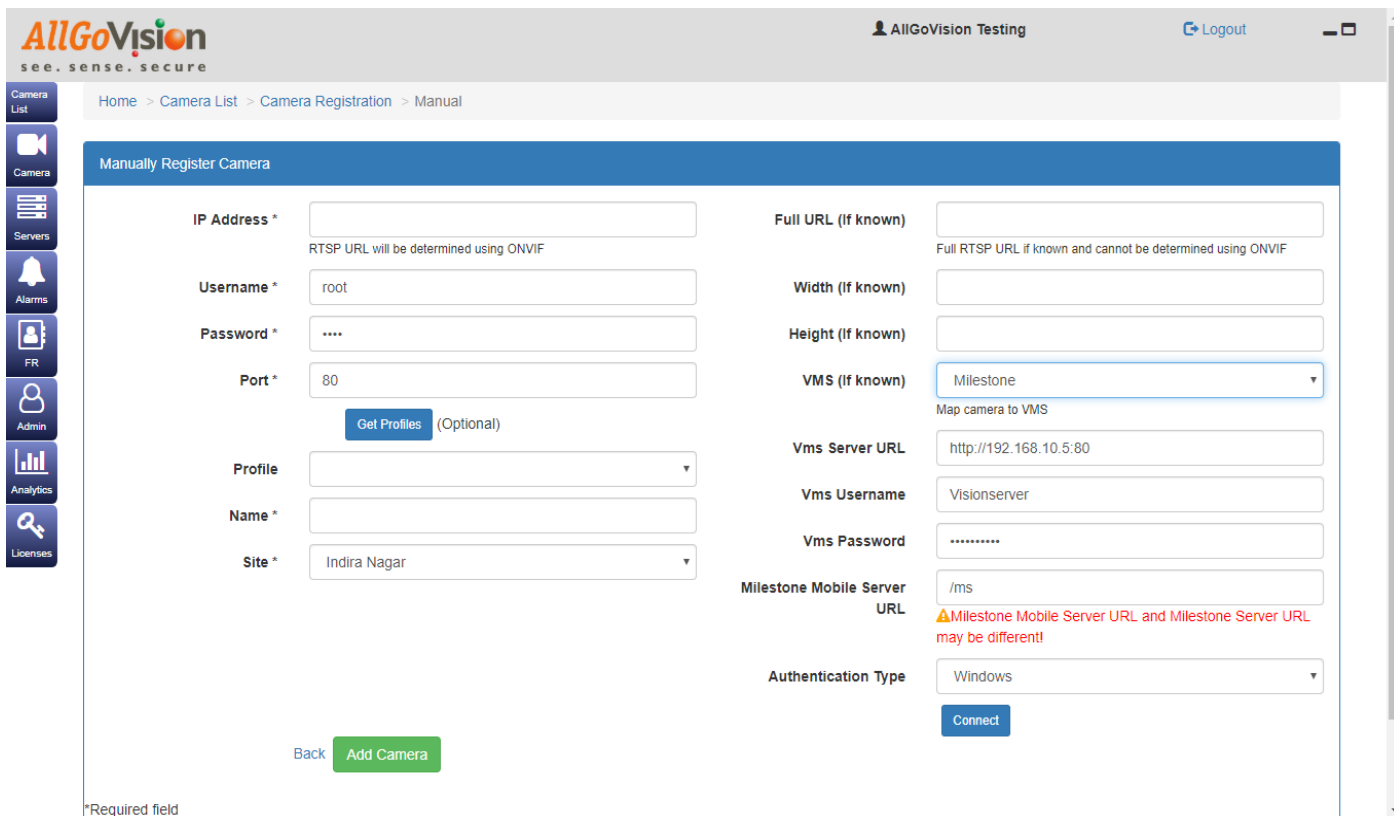
Cameras Registration

Camera Registration

- Scan for cameras**  
To register cameras by scanning with ONVIF discovery
- Manually register cameras**  
To register cameras one by one by IP Address
- Add Recorded Video**  
To add an existing video file
- Connect to VMS**  
To register cameras if a VMS is being used

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5. Select VMS as "Milestone" from the drop down. Enter Credentials/Credentials will be saved and click on Connect.



Home > Camera List > Camera Registration > Manual

Manually Register Camera

**IP Address \***   
RTSP URL will be determined using ONVIF

**Username \***

**Password \***

**Port \***

(Optional)

**Profile**

**Name \***

**Site \***

**Full URL (If known)**   
Full RTSP URL if known and cannot be determined using ONVIF

**Width (If known)**

**Height (If known)**

**VMS (If known)**   
Map camera to VMS

**Vms Server URL**

**Vms Username**

**Vms Password**

**Milestone Mobile Server URL**   
⚠ Milestone Mobile Server URL and Milestone Server URL may be different!

**Authentication Type**

\*Required field

6. Cameras will get listed as below.
7. To Add a camera directly, enter credentials - IP address, username, password & camera name
8. To Map the camera, select Milestone camera which user want to map, select & Click on add camera

| List of Cameras                      |                                                       |                                   |                                 |
|--------------------------------------|-------------------------------------------------------|-----------------------------------|---------------------------------|
| Show                                 | 10                                                    | entries                           | Search: <input type="text"/>    |
|                                      |                                                       |                                   | <a href="#">Export to Excel</a> |
| Id                                   | Model                                                 | Camera Type                       | Add Camera                      |
| 0c0334b2-839d-4724-b66f-ba75076a5db5 | AXIS M3004 Network Camera (192.168.10.44) - Camera 11 |                                   | <a href="#">Map this camera</a> |
| 235b9437-71bb-4927-9ac9-e1b455f5c8c7 | DirectShow Virtual Video Server (0.0.0.1) - Camera 3  |                                   | <a href="#">Map this camera</a> |
| 39fae2c0-a54b-4a4e-a6a4-c526682dd6d3 | DirectShow Virtual Video Server (0.0.0.1) - Camera 6  |                                   | <a href="#">Map this camera</a> |
| 4bdf246a-2105-449e-875a-0ff6b0cb9ca4 | DirectShow Virtual Video Server (0.0.0.1) - Cam       | Connected <a href="#">DISMISS</a> | <a href="#">Map this camera</a> |

Back

Add Camera

List of Cameras

Show 10 entries

Search:

Export to Excel

| Id                                   | Model                                                 | Camera Type                                                     | Add Camera      |
|--------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|-----------------|
| 0c0334b2-839d-4724-b66f-ba75076a5db5 | AXIS M3004 Network Camera (192.168.10.44) - Camera 11 |                                                                 | Map this camera |
| 235b9437-71bb-4927-9ac9-e1b455f5c8c7 | DirectShow Virtual Video Server (0.0.0.1) - Camera 3  |                                                                 | Map this camera |
| 39fae2c0-a54b-4a4e-a6a4-c526682dd6d3 | DirectShow Virtual Video Server (0.0.0.1) - Camera 6  |                                                                 | Map this camera |
| 4bdf246a-2105-449e-875a-0ff6b0cb9ca4 | DirectShow Virtual Video Server (0.0.0.1) - Camera 7  |                                                                 | Map this camera |
| 5c9e8cbc-f4c6-4fa4-b8ed-a679db0995d9 | DirectShow Virtual Video Server (0.0.0.1) - Camera 2  |                                                                 | Map this camera |
| 5d2c5ab5-b0f1-4f25-9225-3fc410a1a3c7 | DirectShow Virtual Video Server (0.0.0.1) - Camera 1  |                                                                 | Map this camera |
| 5deddc36-67c5-4207-8351-4c618bab45c7 | DirectShow Virtual Video Server (0.0.0.1) - Camera 4  |                                                                 | Map this camera |
| 762c9aef-78e6-4231-aa16-21ca8f95a4d4 | AXIS P5635-E Mk II PTZ Dom                            | Camera mapped successfully. Now you can add the camera. DISMISS | Map this camera |
| 8b1d45de-a26e-                       |                                                       |                                                                 | Map this camera |

**AllGoVision**  
see. sense. secure

AllGoVision TestingLogout

Home > Camera List > Camera Registration > Manual

**Manually Register Camera**

**IP Address \***

192.168.10.49

RTSP URL will be determined using ONVIF

**Username \***

root

**Password \***

....

**Port \***

80

Get Profiles

(Optional)

**Profile**

**Name \***

Camera49

**Site \***

Indira Nagar

**Full URL (If known)**

Full RTSP URL if known and cannot be determined using ONVIF

**Width (If known)**

**Height (If known)**

**VMS (If known)**

Milestone

Map camera to VMS

**Vms Server URL**

http://192.168.10.5:80

**Vms Username**

Visionserver

**Vms Password**

.....

**Milestone Mobile Server URL**

/ms

⚠Milestone Mobile Server URL and Milestone Server URL may be different!

**Authentication Type**

Windows

Connect

**Mapped VMS Camera**

AXIS P5635-E Mk II PTZ Dome Network Camera (192.16

Back

Add Camera

**AllGoVision**  
see. sense. secure

AllGoVision TestingLogout

Home > Camera List > Camera Registration > Manual

**Manually Register Camera**

**IP Address \***

192.168.10.49

RTSP URL will be determined using ONVIF

**Username \***

root

**Password \***

....

**Port \***

80

Get Profiles

(Optional)

**Profile**

**Name \***

Camera49

**Site \***

Indira Nagar

**Full URL (If known)**

Full RTSP URL if known and cannot be determined using ONVIF

**Width (If known)**

**Height (If known)**

**VMS (If known)**

Milestone

Map camera to VMS

**Vms Server URL**

http://192.168.10.5:80

**Vms Username**

Visionserver

**Vms Password**

.....

**Milestone Mobile Server URL**

/ms

⚠Milestone Mobile Server URL and Milestone Server URL may be different!

**Authentication Type**

Windows

Connect

**Mapped VMS Camera**

AXIS P5635-E Mk II PTZ Dome Network Camera (192.16

Back

Add Camera

Registered Camera49

DISMISS

Camera

**AllGoVision** see. sense. secure AllGoVision Testing [Logout](#)

Home > Camera

Cameras [Registration](#)

Enable Analytics on Cameras Added

Show 5 entries Search:  [Refresh](#) [Export to Excel](#) [Select all](#) [None](#)

| Dashboard                 | ID | Thumbnail                                                                         | Name     | IP Address    | Main Server | Fallover Server | Site         | VMS       | Running Analytics | Last Updated | Features       | Delete                                                                              |
|---------------------------|----|-----------------------------------------------------------------------------------|----------|---------------|-------------|-----------------|--------------|-----------|-------------------|--------------|----------------|-------------------------------------------------------------------------------------|
| <a href="#">Dashboard</a> | 2  |  | Camera49 | 192.168.10.49 | None        | None            | Indira Nagar | Milestone | No                |              | Not configured |  |

Showing 1 to 1 of 1 entries [Previous](#) [1](#) [Next](#)

[Upload Config File](#)
[Clone Config](#)
[Export Config](#)
[Start Analytics](#)
[Stop Analytics](#)
[Delete Cameras](#)

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## Adding cameras from MIP Milestone

TestTeamDailyStatus.xlsx | Feature wise test results - Google | Accuracy updates.xlsx | AllGoVision Technologies

https://test18.allgovision.com:9080/config/register

**AllGoVision** see. sense. secure Testing [Logout](#)

Home > Camera

Cameras [Registration](#)

Camera Registration

**VMS** [VMS Server List](#) [Scan for cameras](#)

[Add VMS Server](#) [Manually register cameras](#) [Add Recorded Video](#)

Register cameras by scanning with ONVIF discovery

To register cameras one by one by IP Address

To add an existing video file

[Connect to VMS](#)

To register cameras if a VMS is being used

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https://test18.allgovision.com:9080/config/addVmsServer

TestTeamDailyStatus.xlsx | Feature wise test results - Google | Accuracy updates.xlsx | AllGoVision Technologies

https://test18.allgovision.com:9080/config/addVmsServer

Testing Logout

Home > VMS > Add VMS Server

**Add VMS Server**

VMS: MIP Milestone

Milestone Server URL: http://192.168.10.174

Username: Administrator

Password: \*\*\*\*\*

Authentication Type: Windows

**Add**

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TestTeamDailyStatus.xlsx | Feature wise test results - Google | Accuracy updates.xlsx | AllGoVision Technologies

https://test18.allgovision.com:9080/config/VMSconnection

Testing Logout

Home > Camera List > Camera Registration > VMS

**Connect to VMS**

VMS: Select VMS

- Select VMS
- Maxpro
- Samsung
- Bosch
- Wave Store
- Verint Nextiva
- Honeywell DVM
- DW Spectrum
- Milestone
- Cisco VSM
- Honeywell EBI
- Genetec
- Network Optix
- IndigoVision
- ExacqVision
- HUS
- New DVM
- Avigilon
- MIP Milestone**

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TestTeamDailyStatus.xlsx | Feature wise test results - Google | Accuracy updates.xlsx | AllGoVision Technologies

https://test18.allgovision.com:9080/config/MIPMilestone

AllGoVision see. sense. secure Testing Logout

Home > Camera List > Camera Registration > VMS > Milestone

### MIP Milestone

Select Server:

Milestone Server URL:

Username:

Password:

Authentication Type:

Camera List | Camera | Servers | VMS | FR | Admin | Analytics | Event | Licenses

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https://test18.allgovision.com:9080/config/MIPMilestone

AllGoVision see. sense. secure Testing Logout

Home > Camera List > Camera Registration > VMS > Milestone

### MIP Milestone

List of Cameras

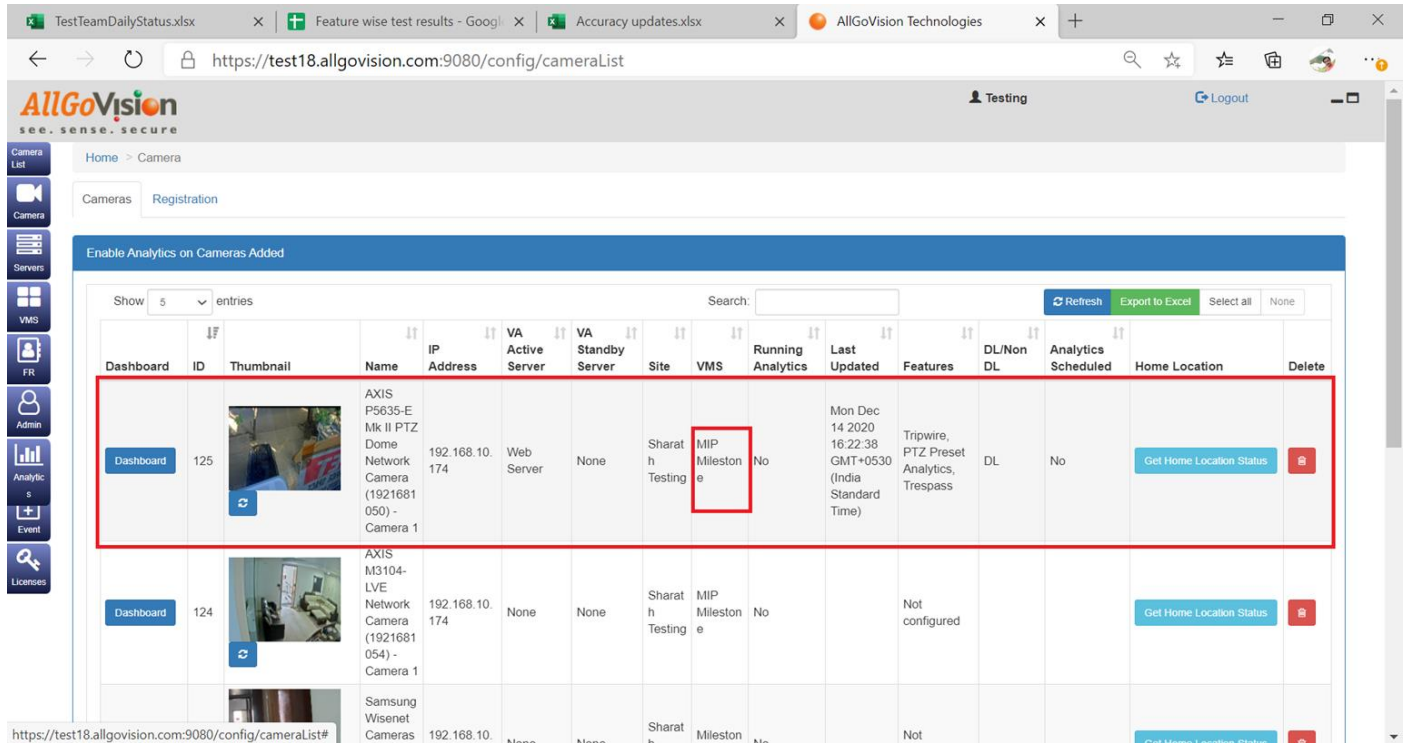
Show: 10 entries Search:

Select all None

| Id                                   | Name                                                                  | Camera Type | Site            |
|--------------------------------------|-----------------------------------------------------------------------|-------------|-----------------|
| 0992f4e-be34-4727-ab18-529839d75de7  | DirectShow Virtual Video Server (0.0.0.1) - Camera 5                  | Fixed       | Sharath Testing |
| 418dbcf8-e24e-4b27-8155-7ab07dcb5721 | AXIS P5635-E Mk II PTZ Dome Network Camera (192.168.10.50) - Camera 1 | PTZ         | Sharath Testing |
| 42333e65-5c8a-474e-ae0f-cdded8d43457 | DirectShow Virtual Video Server (0.0.0.1) - Camera 8                  | Fixed       | Sharath Testing |
| 549d4896-869a-4f03-b87d-078e71eb138d | AXIS M3104-LVE Network Camera (192.168.10.54) - Camera 7              | Fixed       | Sharath Testing |
| 56f83d40-4aa8-43a7-867d-d5a7a1bf17d2 | DirectShow Virtual Video Server (0.0.0.1) - Camera 2                  | Fixed       | Sharath Testing |
| 5a0ead8b-63c1-4648-8ebe-28e6f389b35b | AXIS P5635-E Mk II PTZ Dome Network Camera (192.168.10.49) - Camera 1 | PTZ         | Sharath Testing |
| 6f66fe03-be1c-47e6-8be3-0a1ba08c06bb | DirectShow Virtual Video Server (0.0.0.1) - Camera 6                  | Fixed       | Sharath Testing |
| 76cba1c0-d986-4715-9cfb-5470a69c3fda | AXIS M3104-LVE Network Camera (192.168.10.54) - Camera 3              | Fixed       | Sharath Testing |
| 78873193-cabb-4ff5-9f21-e69aa6ad5e1d | Samsung Wisenet Cameras (192.168.10.47) - Camera 1                    | Fixed       | Sharath Testing |
| 8318724a-4000-4237-0603-ae1f28702470 | AXIS M3104-LVE Network Camera (192.168.10.54) - Camera 2              | Fixed       | Sharath Testing |

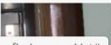
https://test18.allgovision.com:9080/config/MIPMilestone#

Camera List | Camera | Servers | VMS | FR | Admin | Analytics | Event | Licenses



Enable Analytics on Cameras Added

Show 5 entries Search: [ ] [Refresh] [Export to Excel] [Select all] [None]

| Dashboard | ID  | Thumbnail                                                                         | Name                                                               | IP Address     | VA Active Server | VA Standby Server | Site            | VMS           | Running Analytics | Last Updated                                            | Features                                 | DL/Non DL | Analytics Scheduled | Home Location                            | Delete                                                                              |
|-----------|-----|-----------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------|------------------|-------------------|-----------------|---------------|-------------------|---------------------------------------------------------|------------------------------------------|-----------|---------------------|------------------------------------------|-------------------------------------------------------------------------------------|
| Dashboard | 125 |  | AXIS P5635-E Mk II PTZ Dome Network Camera (1921681050) - Camera 1 | 192.168.10.174 | Web Server       | None              | Sharath Testing | MIP Milestone | No                | Mon Dec 14 2020 16:22:38 GMT+0530 (India Standard Time) | Tripwire, PTZ Preset Analytics, Trespass | DL        | No                  | <a href="#">Get Home Location Status</a> |  |
| Dashboard | 124 |  | AXIS M3104-LVE Network Camera (1921681054) - Camera 1              | 192.168.10.174 | None             | None              | Sharath Testing | MIP Milestone | No                |                                                         | Not configured                           |           |                     | <a href="#">Get Home Location Status</a> |  |
|           |     |  | Samsung Wisenet Cameras                                            | 192.168.10.    | None             | None              | Sharath         | Milestone     | No                |                                                         | Not                                      |           |                     | <a href="#">Get Home Location Status</a> |  |

### Live View Plugin and Alarm Preview

1. Live view plugin, Alarm overlay will display in live view

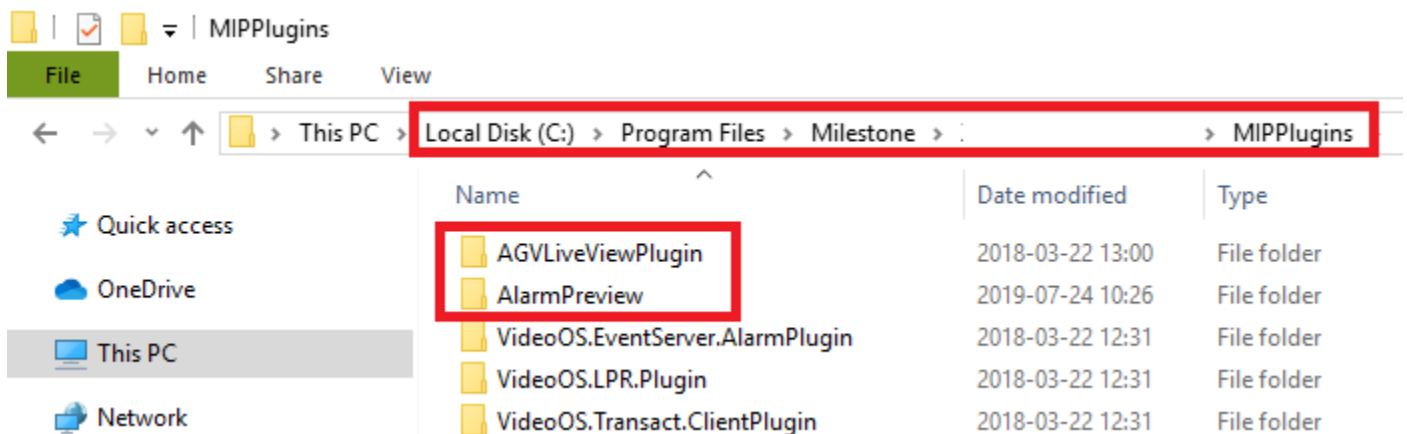
Live View plugin: <https://drive.google.com/open?id=1T7qOE5Lf7gn6Eqv4XVkmKWXsilZnrlmv>

2. Alarm Preview plugin for LPR & FR overlay and text visible in the Milestone alarm

Alarm Preview plugin:

<https://drive.google.com/open?id=1FZ7xNNxJlgsMB05UP2Y3Dn7kAdXpFqjb>

Download and extract the Folder in Milestone MIP Plugins Folder where Smart Client is installed.



File Home Share View

Local Disk (C:) > Program Files > Milestone > MIPPlugins

| Name                            | Date modified    | Type        |
|---------------------------------|------------------|-------------|
| AGVLiveViewPlugin               | 2018-03-22 13:00 | File folder |
| AlarmPreview                    | 2019-07-24 10:26 | File folder |
| VideoOS.EventServer.AlarmPlugin | 2018-03-22 12:31 | File folder |
| VideoOS.LPR.Plugin              | 2018-03-22 12:31 | File folder |
| VideoOS.Transact.ClientPlugin   | 2018-03-22 12:31 | File folder |

### Alarm preview for Facial Recognition

Milestone XProtect Smart Client

23-07-2019 13:16:26

Live Playback Sequence Explorer Alarm Manager AllGoVision Video Analytics System Monitor Setup

No map has been selected

DirectShow Virtual Video Server (0.0.0.1) - Camera 6 - 23-07-2019...

Alarm Details

|           |                                                      |
|-----------|------------------------------------------------------|
| Name:     | Adam scott                                           |
| Age:      | 36                                                   |
| Gender:   | Male                                                 |
| Category: | Whitelist                                            |
| Time:     | 23-07-2019 11:51                                     |
| Camera:   | DirectShow Virtual Video Server (0.0.0.1) - Camera 6 |

11:30 23-07-2019 11:51:49.634 12:10 12:20

Quick Filters

- New (328471)
- In progress (0)
- On hold (0)
- Closed (0)

Servers

- DESKTOP-04FGM26

Alarms No filter

| Time                | Priority Level | State Name                  | Message | Source                                               | Owner        |
|---------------------|----------------|-----------------------------|---------|------------------------------------------------------|--------------|
| 11:51:50 23-07-2019 | 1              | TRIPWIRE                    |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 11:51:46 23-07-2019 | 1              | TRIPWIRE                    |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 11:51:46 23-07-2019 | 1              | TRIPWIRE                    |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 11:51:46 23-07-2019 | 1              | FACE_RECOGNITION (48, 22, A |         | DirectShow Virtual Video Server (0.0.0.1) - Camera 6 | vivek        |
| 11:51:46 23-07-2019 | 1              | TRIPWIRE                    |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 11:51:46 23-07-2019 | 1              | FACE_RECOGNITION (48, 22, A |         | DirectShow Virtual Video Server (0.0.0.1) - Camera 6 | vivek        |
| 11:51:46 23-07-2019 | 1              | TRIPWIRE                    |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 11:51:46 23-07-2019 | 1              | TRIPWIRE                    |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 11:51:46 23-07-2019 | 1              | TRIPWIRE                    |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 11:51:43 23-07-2019 | 1              | TRIPWIRE                    |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 11:51:43 23-07-2019 | 1              | TRIPWIRE                    |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 11:51:43 23-07-2019 | 1              | FACE_NOT_RECOGNIZED (NA     |         | DirectShow Virtual Video Server (0.0.0.1) - Camera 6 | vivek        |

Reports < 1201-1300 >

## Alarm preview for LPR

Milestone XProtect Smart Client

23-07-2019 13:12:16

Live Playback Sequence Explorer Alarm Manager AllGoVision Video Analytics System Monitor Setup

No map has been selected

DirectShow Virtual Video Server (0.0.0.1) - Camera 7 - 23-07-2019...

Alarm Details

|                     |                                                      |
|---------------------|------------------------------------------------------|
| KA51D8287           | KA51D8287                                            |
| Time Stamp:         | 23-07-2019 13:10                                     |
| Camera:             | DirectShow Virtual Video Server (0.0.0.1) - Camera 7 |
| Vehicle Type/Model: | CAR                                                  |
| Category:           | Blacklist                                            |
| Entry/Exit:         | Entry                                                |

12:50 23-07-2019 13:10:44.636 13:30 13:40

Quick Filters

- New (328385)
- In progress (0)
- On hold (0)
- Closed (0)

Servers

- DESKTOP-04FGM26

Alarms No filter

| Time                | Priority Level | State Name                         | Message | Source                                               | Owner        |
|---------------------|----------------|------------------------------------|---------|------------------------------------------------------|--------------|
| 13:10:46 23-07-2019 | 1              | TRIPWIRE                           |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 13:10:41 23-07-2019 | 1              | (KA51D8287, CAR, Blacklist, Entry, |         | DirectShow Virtual Video Server (0.0.0.1) - Camera 7 | vivek        |
| 13:10:41 23-07-2019 | 1              | (KA51D8287, CAR, Blacklist, Entry, |         | DirectShow Virtual Video Server (0.0.0.1) - Camera 7 | vivek        |
| 13:10:40 23-07-2019 | 1              | TRIPWIRE                           |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 13:10:40 23-07-2019 | 1              | TRIPWIRE                           |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 13:10:34 23-07-2019 | 1              | TRIPWIRE                           |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 13:10:34 23-07-2019 | 1              | TRIPWIRE                           |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 13:10:26 23-07-2019 | 1              | TRIPWIRE                           |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 13:10:26 23-07-2019 | 1              | TRIPWIRE                           |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 13:10:13 23-07-2019 | 1              | TRIPWIRE                           |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 13:10:13 23-07-2019 | 1              | TRIPWIRE                           |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 13:10:12 23-07-2019 | 1              | TRIPWIRE                           |         | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |

Reports 1-100 >

## EXTERNAL EVENT CONFIGURATION IN MILESTONE

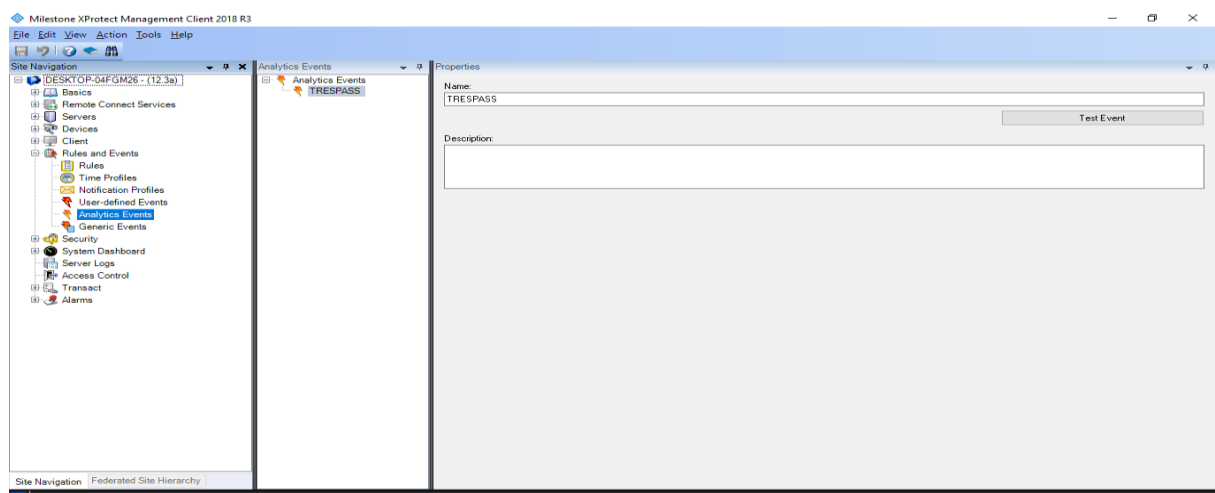
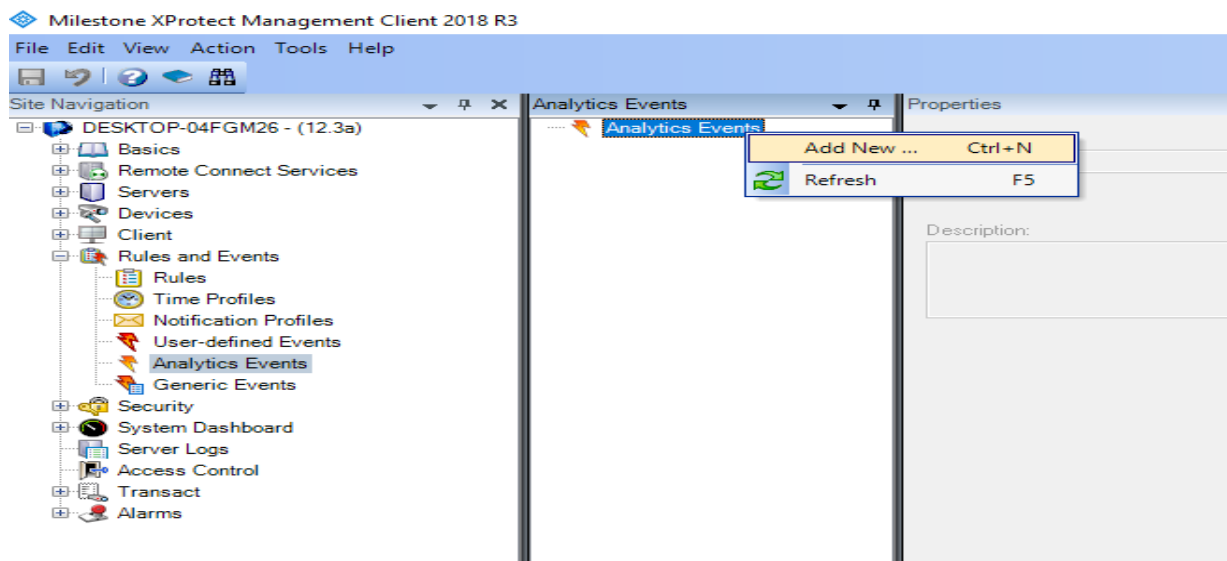
AllGoVision alarms can be used as external events in Milestone to trigger applications like Matrix Pop-up, Sound Alarms, E-mail, Event based Recording, triggering Camera Output etc.

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**

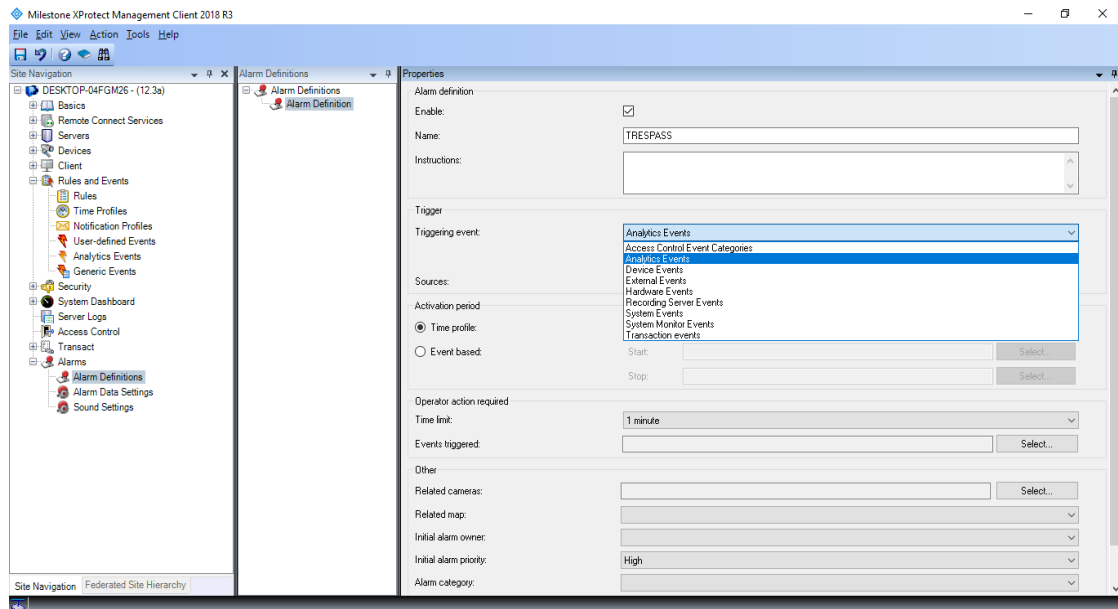
AllGoVision sends external events as "**AlarmName\_CamerName**". For example, if camera name is Highway1 and Loitering application is running in AllGoVision, whenever AllGoVision detects Tripwire alarm, it sends the alarm to Milestone and external event as "Loitering\_Highway1".

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

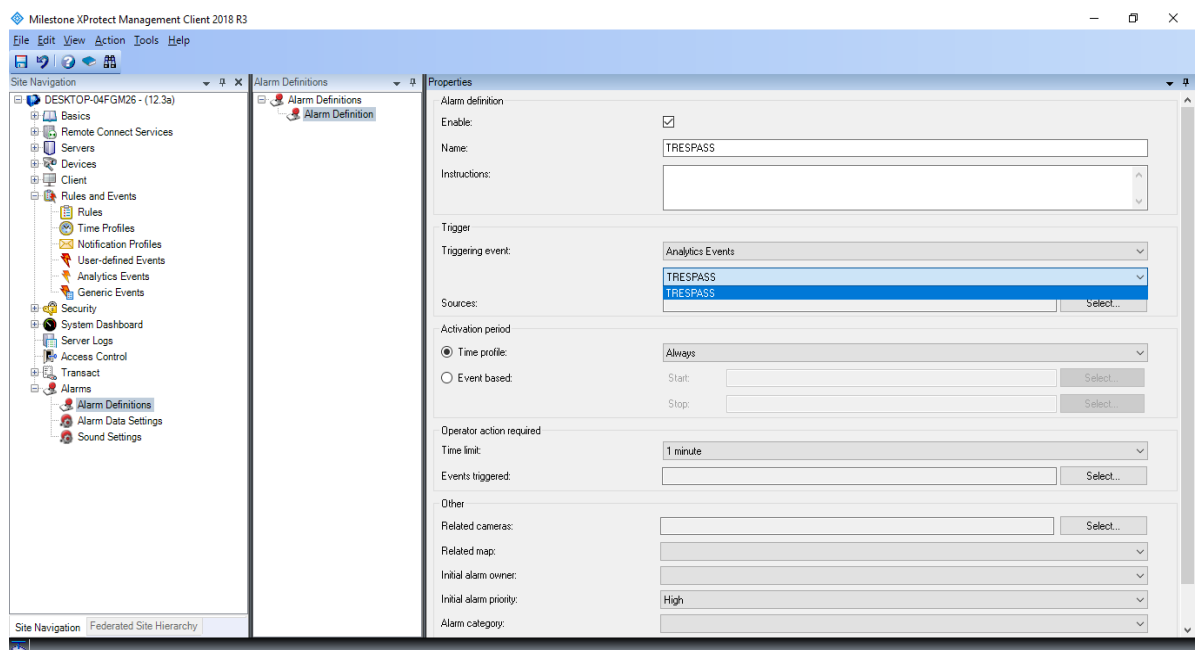
1. Select **Analytics Events** under Rules and Events tab.
2. Under Analytics Events tab, right click and select **Add New** to create a new event.

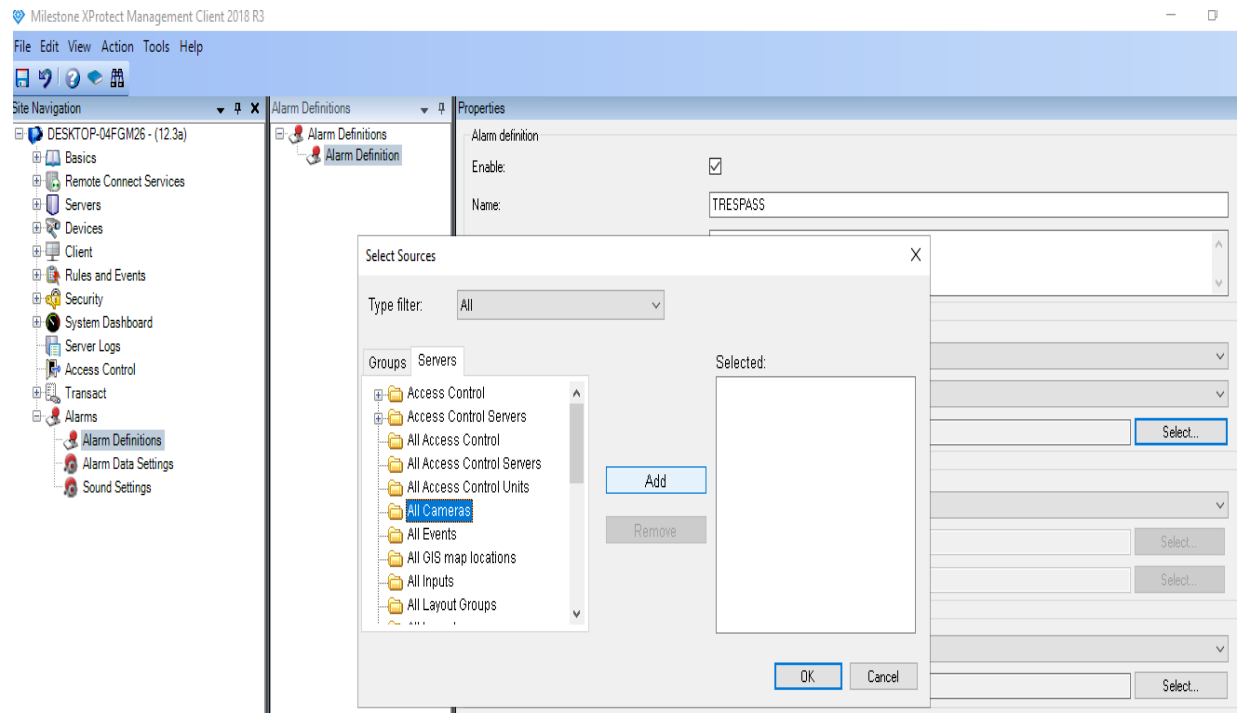


3. Under Properties tab, mention the required Alarm Name and Description.
4. Select Analytics Events under Triggering event

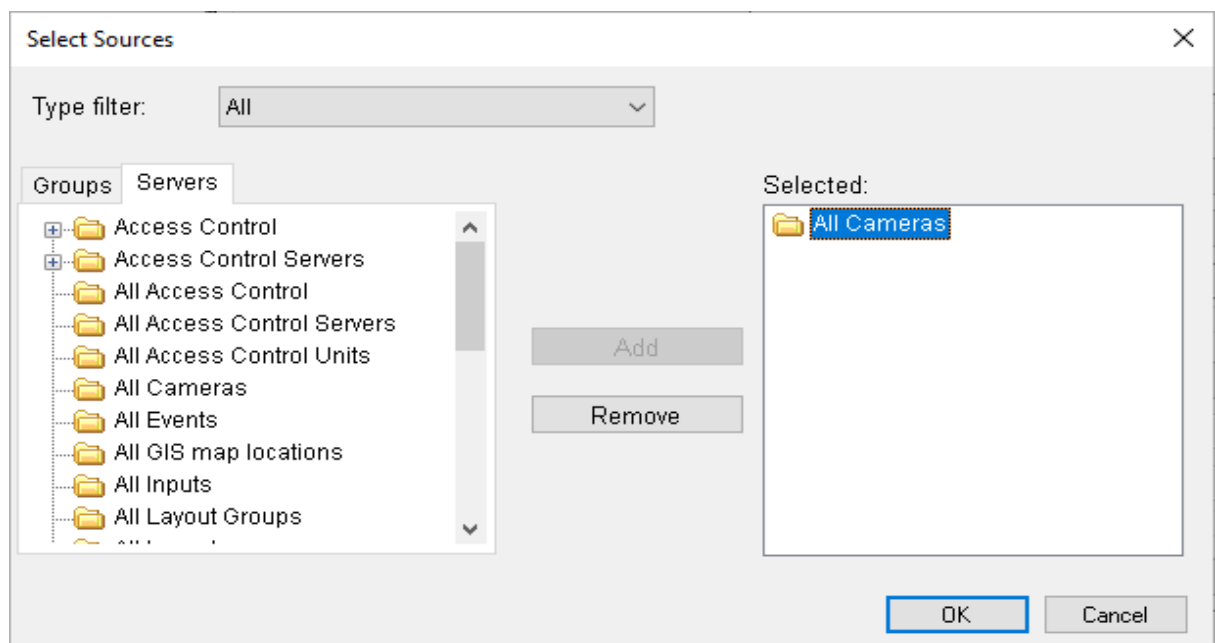


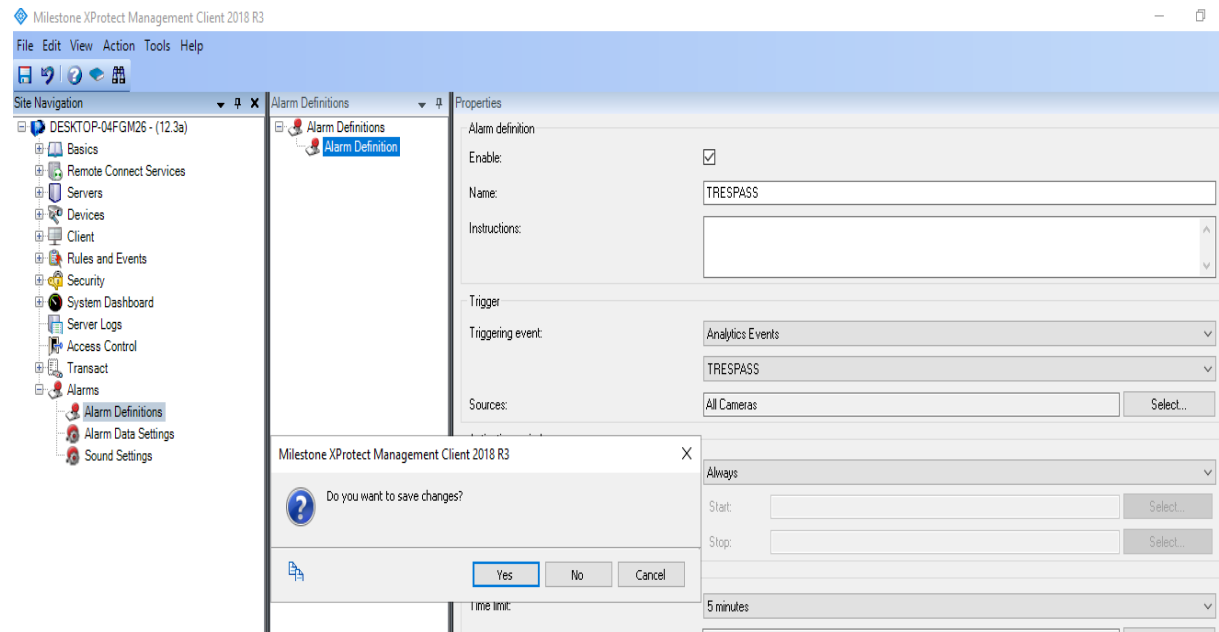
5. Next, select Alarm Name and select the sources



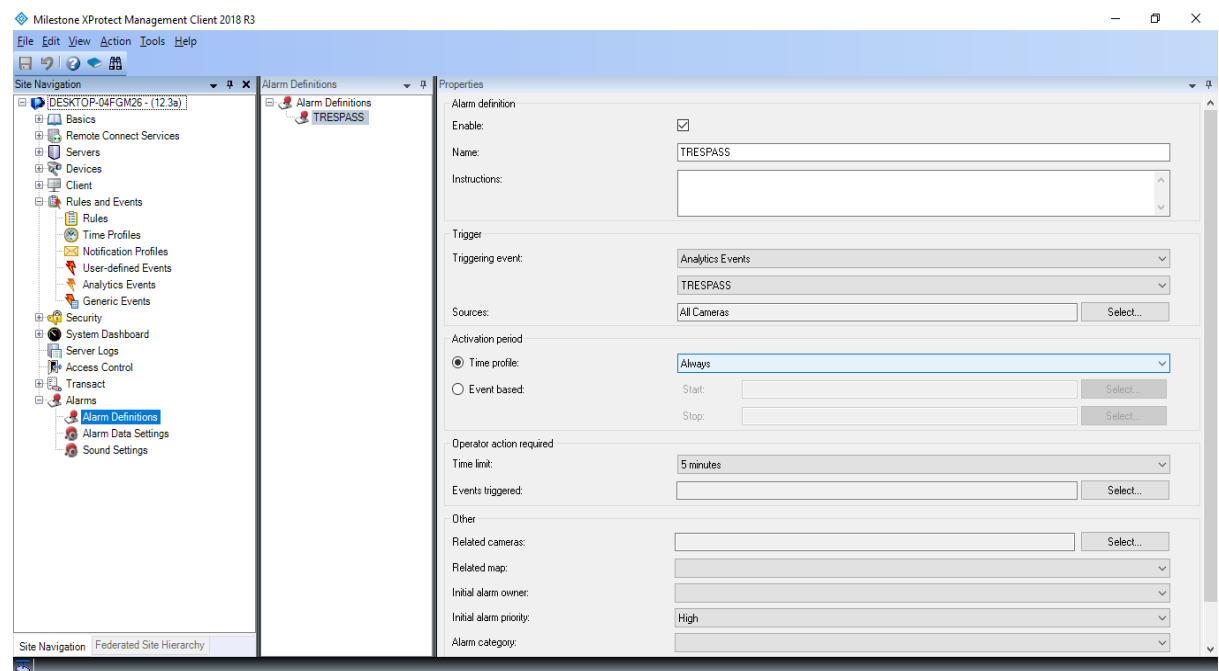


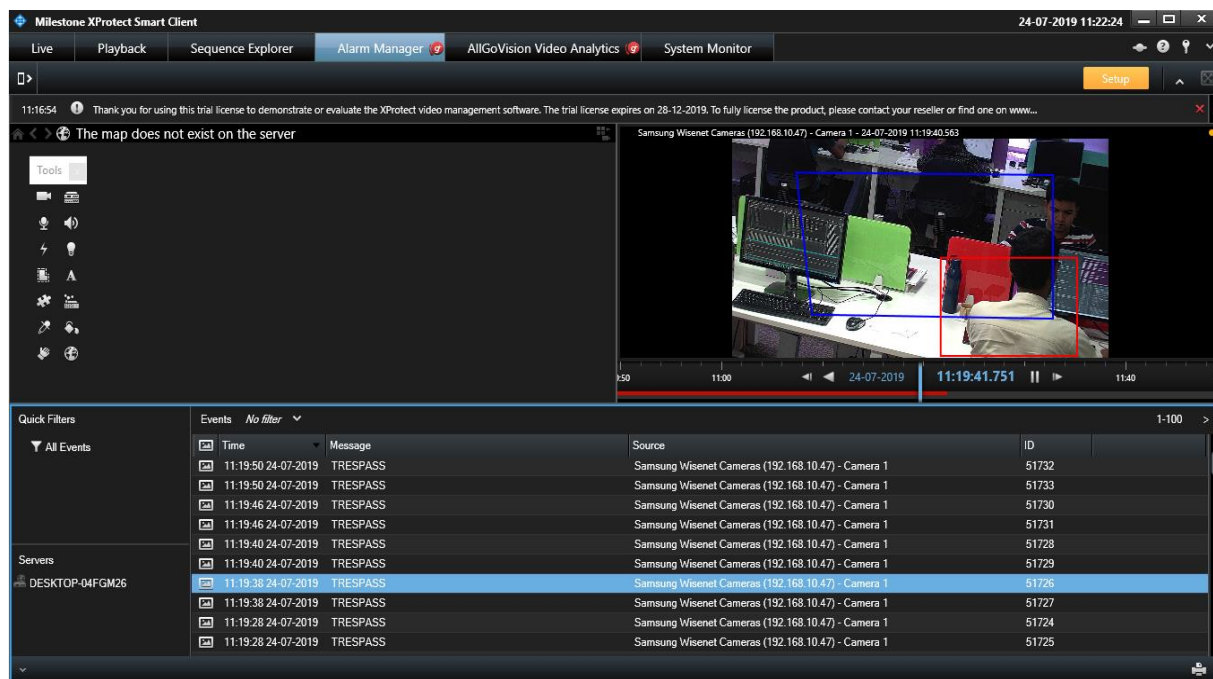
6. Select all cameras & add it to the selected list
7. Save changes





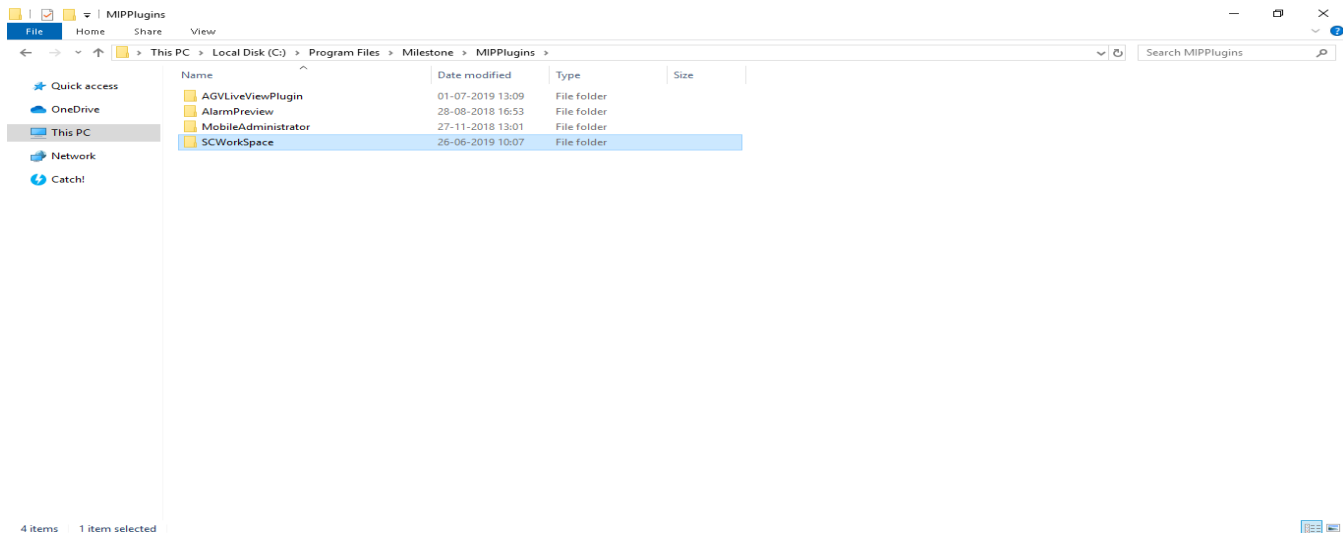
## Event Output



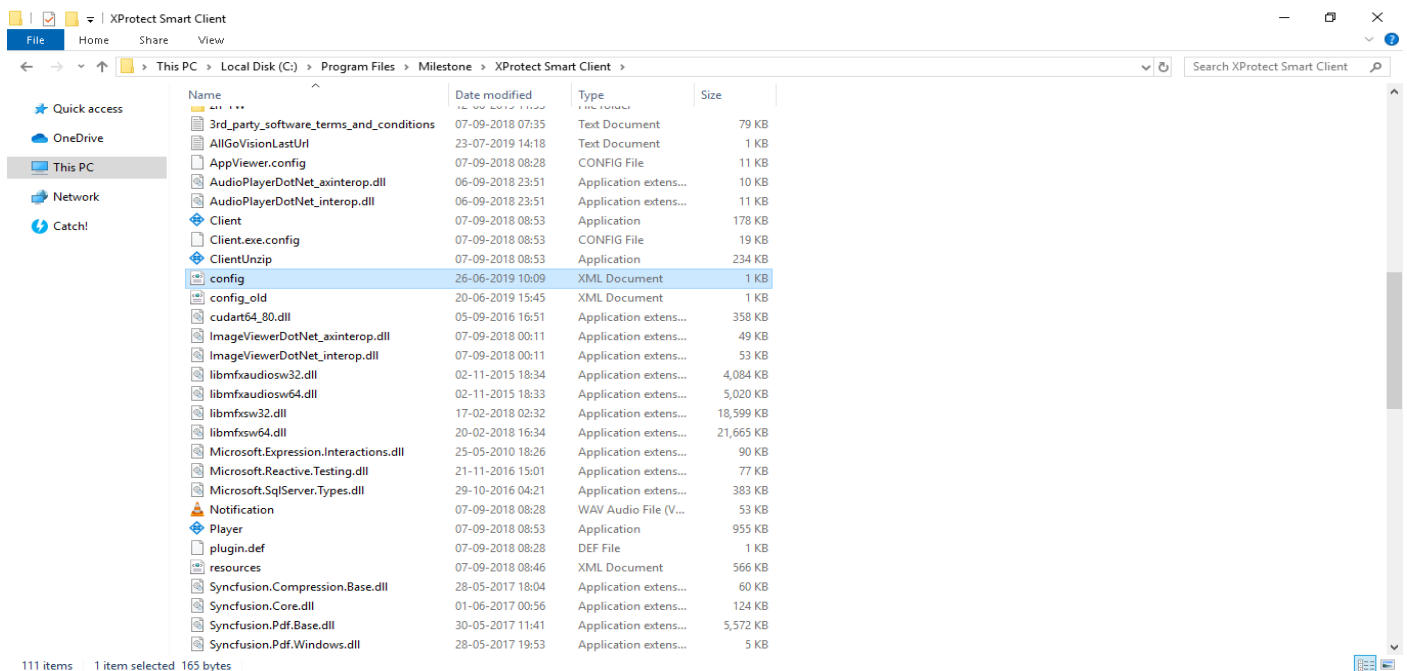


## ALLGOVISION WEB CLIENT IN MILESTONE SMART CLIENT

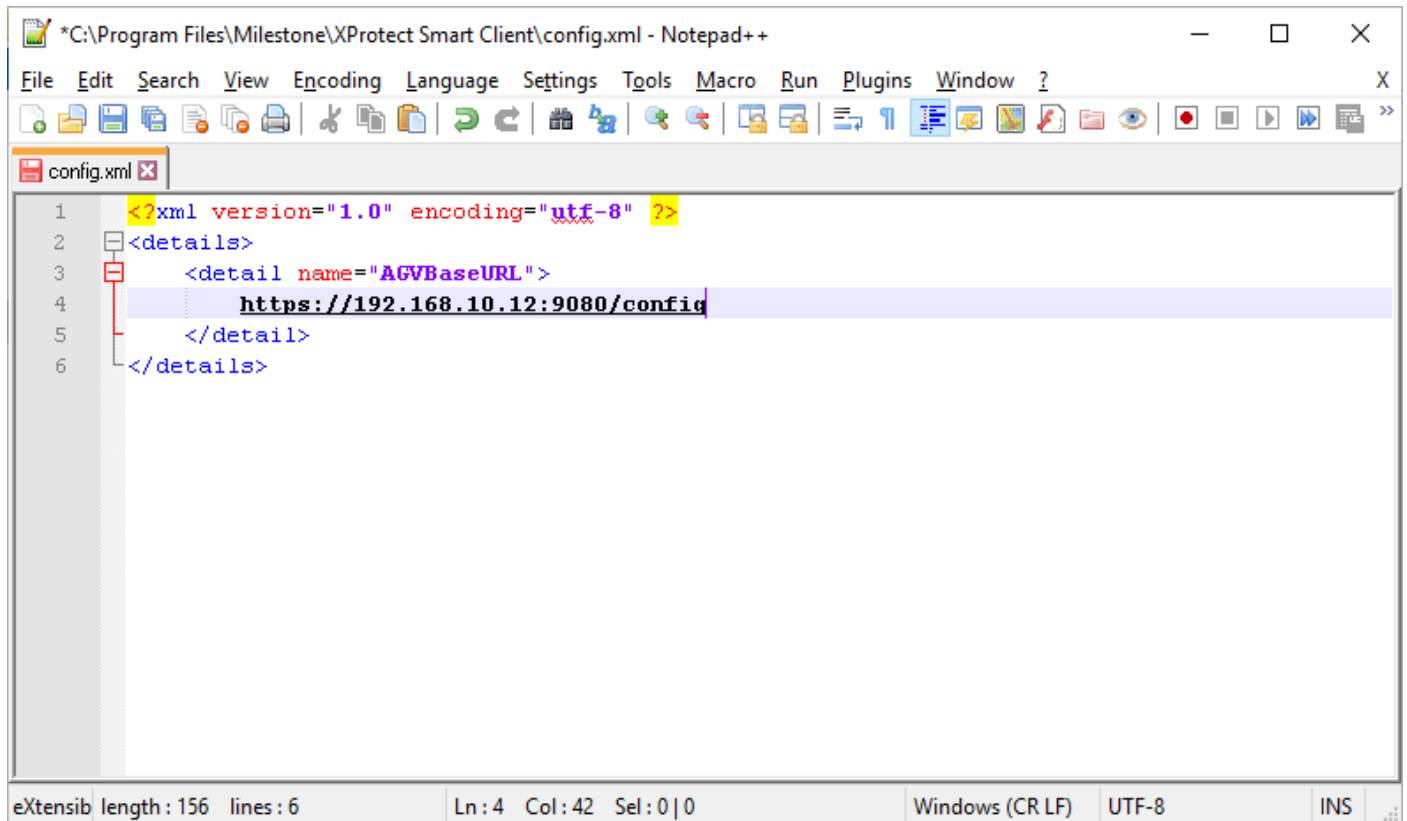
1. Download SCWorkSpace directory:  
<https://drive.google.com/open?id=1wjKNr0n3B9XJfXah0mLMnwlsvj8G-pFY>
2. Copy SCWorkSpace folder to "C:\Program Files\Milestone\MIPPlugins"



- Copy config.xml file from SCWorkspace folder to "C:\Program Files\Milestone\XProtect Smart Client"



- Edit the config.xml in "C:\Program Files\Milestone\XProtect Smart Client" by appropriate IP address i.e, change url: <http://127.0.0.1:9000> to where AGV web client is running. Eg: <https://192.168.10.12:9080/config>

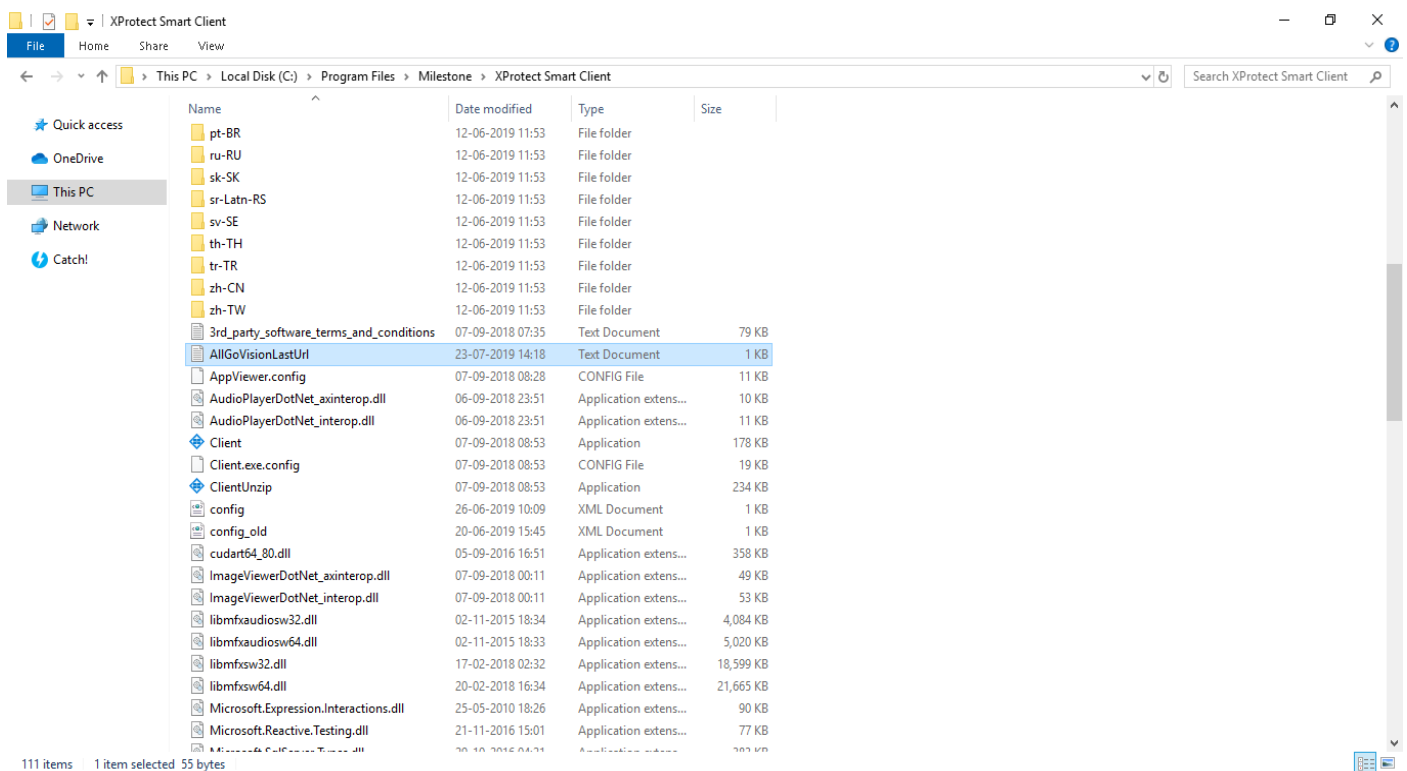


```

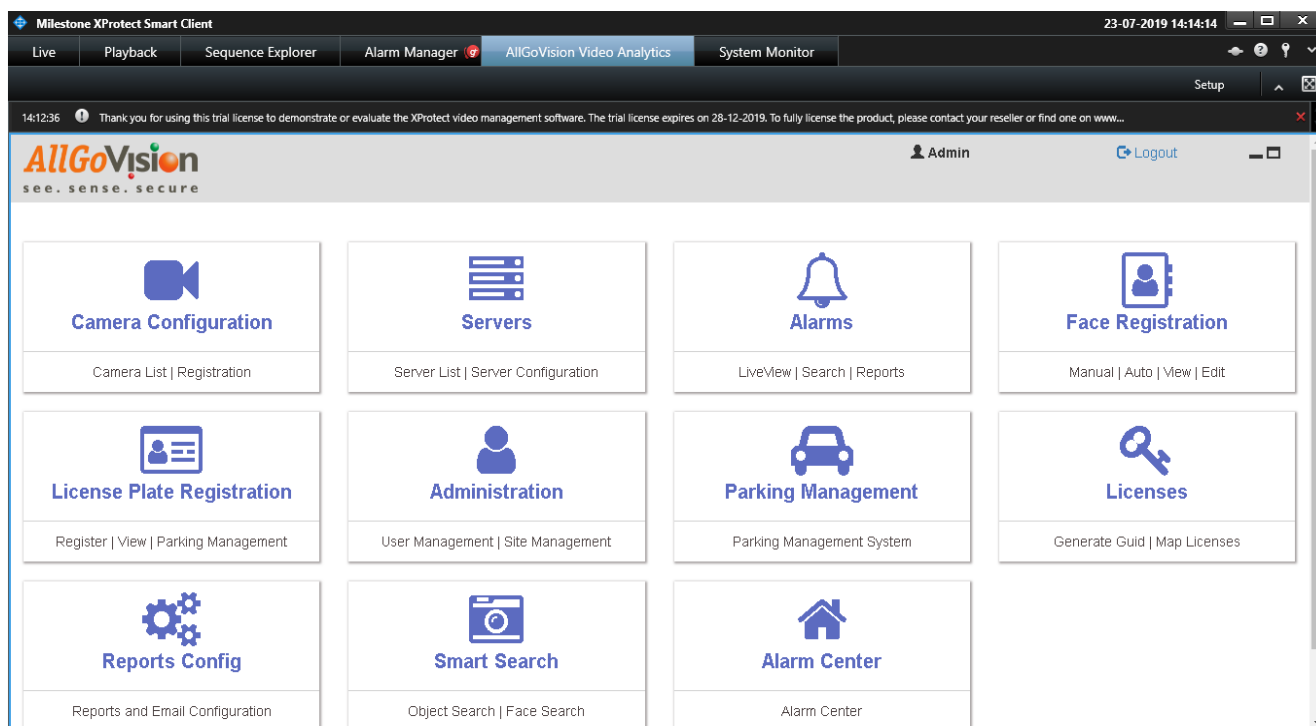
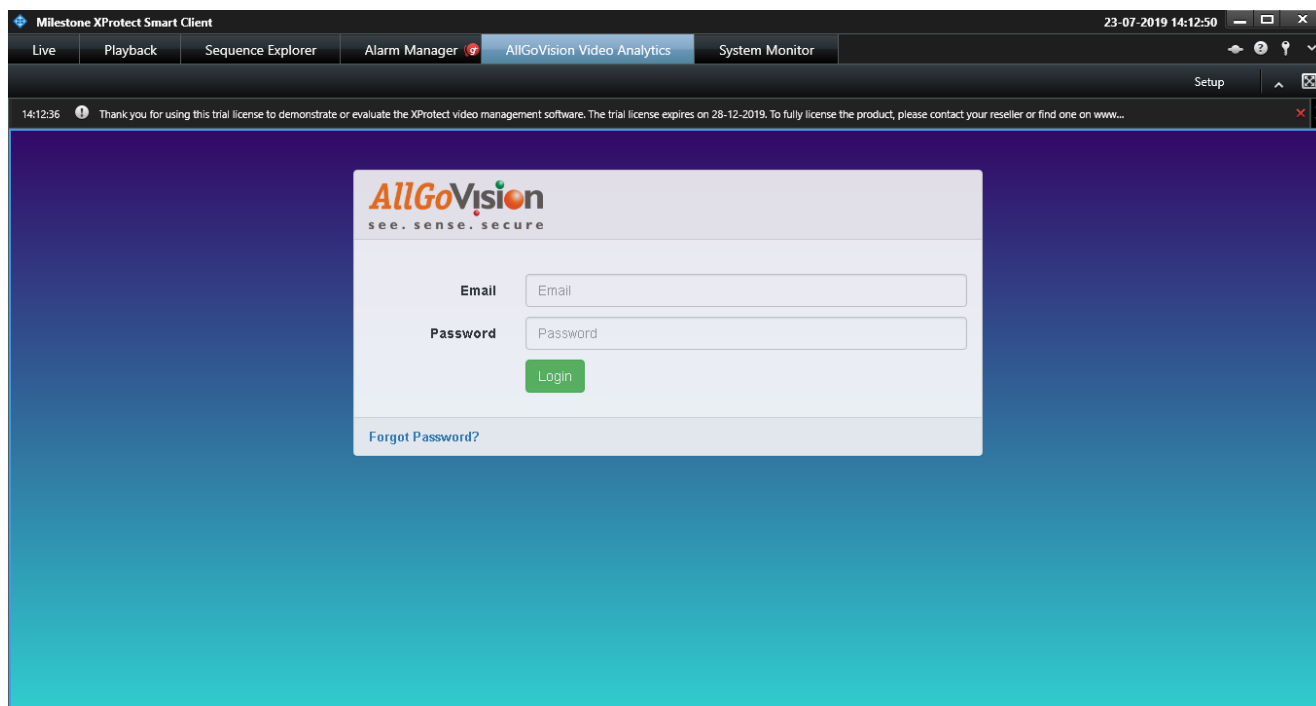
1  <?xml version="1.0" encoding="utf-8" ?>
2  <details>
3    <detail name="AGVBaseUrl">
4      https://192.168.10.12:9080/config
5    </detail>
6  </details>
  
```

extensib length: 156 lines: 6 Ln: 4 Col: 42 Sel: 0|0 Windows (CR LF) UTF-8 INS

- Whenever user update the "config.xml", delete "AllGoVisionLastUrl.txt" if it is there in "C:\Program Files\Milestone\XProtect Smart Client" folder.



- Start the Milestone smart client, Click on tab "AllGoVision Video Analytics" enter the credentials



## Milestone Meta Data Support

Please find below the link to download the tutorial video for how to setup the Metadata setup

<https://drive.google.com/open?id=1AHM5pLRVdn1UQBUVT6RfAhhg0V51YObx>

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.

| Time                 | Priority Level | State Level | State Name | Message  | Source   | Owner | ID    |
|----------------------|----------------|-------------|------------|----------|----------|-------|-------|
| 7:16:24 PM 9/11/2013 | 1              | 1           | TRESPASS   | TRESPASS | Camera 4 | allgo | 13094 |
| 7:16:23 PM 9/11/2013 | 1              | 1           | TRESPASS   | TRESPASS | Camera 4 | allgo | 13093 |
| 7:14:15 PM 9/11/2013 | 1              | 1           | TRESPASS   | TRESPASS | Camera 4 | allgo | 13092 |
| 7:12:39 PM 9/11/2013 | 1              | 1           | TRESPASS   | TRESPASS | Camera 4 | allgo | 13091 |
| 7:12:35 PM 9/11/2013 | 1              | 1           | TRESPASS   | TRESPASS | Camera 4 | allgo | 13090 |
| 7:08:14 PM 9/11/2013 | 1              | 1           | TRESPASS   | TRESPASS | Camera 4 | allgo | 13089 |
| 7:06:24 PM 9/11/2013 | 1              | 1           | TRESPASS   | TRESPASS | Camera 4 | allgo | 13088 |
| 7:05:24 PM 9/11/2013 | 1              | 1           | TRESPASS   | TRESPASS | Camera 4 | allgo | 13087 |

The screenshot shows the Milestone XProtect Smart Client interface. The top bar includes tabs for Live, Playback, Sequence Explorer, Alarm Manager (selected), and System Monitor. The main window displays a video feed of a white car with a license plate KA51D3047. To the right, the Alarm Details panel shows the following information:

|                     |                                                      |
|---------------------|------------------------------------------------------|
| Time Stamp:         | 05-02-2019 14:17                                     |
| Camera:             | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 |
| Vehicle Type/Model: | NA                                                   |
| Category:           | UNKNOWN_LIST                                         |
| Entry/Exit:         | Entry                                                |

Below the video feed, a table lists recent alarms:

| Time                | Priority Level | State Name | Message                       | Source                                               | Owner        |
|---------------------|----------------|------------|-------------------------------|------------------------------------------------------|--------------|
| 14:17:50 05-02-2019 | 1              |            | FACE_NOT_RECOGNIZED (NA,NA)   | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 14:17:19 05-02-2019 | 1              |            | (KL57FW9306.NA,UNKNOWN_LIST,I | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |
| 14:17:13 05-02-2019 | 1              |            | (KA51D3047.NA,UNKNOWN_LIST,Er | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |
| 14:17:11 05-02-2019 | 1              |            | (KA01ML8844.NA,UNKNOWN_LIST,I | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |
| 14:17:10 05-02-2019 | 1              |            | (KA02AA6055.NA,UNKNOWN_LIST,E | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |
| 14:17:08 05-02-2019 | 1              |            | (AS01MD1950.NA,UNKNOWN_LIST,I | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |
| 14:17:04 05-02-2019 | 1              |            | (KA41B9204.NA,UNKNOWN_LIST,Er | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |
| 14:17:03 05-02-2019 | 1              |            | (KA51P2975.NA,UNKNOWN_LIST,Er | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |
| 14:17:02 05-02-2019 | 1              |            | (TN37AZ8365.NA,UNKNOWN_LIST,E | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |
| 14:15:19 05-02-2019 | 1              |            | TRIPWIRE                      | AXIS PTZ 192.168.10.50                               | Visionserver |
| 14:14:03 05-02-2019 | 1              |            | TRIPWIRE                      | AXIS PTZ 192.168.10.50                               | Visionserver |

The screenshot shows the Milestone XProtect Smart Client interface. The top bar includes tabs for Live, Playback, Sequence Explorer, Alarm Manager (selected), and System Monitor. The main window displays a video feed of a person's face. To the right, the Alarm Details panel shows the following information:

|           |                                       |
|-----------|---------------------------------------|
| Name:     | Shalini                               |
| Age:      | NA                                    |
| Gender:   | NA                                    |
| Category: |                                       |
| Time:     | 05-02-2019 14:18                      |
| Camera:   | g Wisenet Cameras (192.168.10.47) - C |

Below the video feed, a table lists recent alarms:

| Time                | Priority Level | State Name | Message                          | Source                                               | Owner        |
|---------------------|----------------|------------|----------------------------------|------------------------------------------------------|--------------|
| 14:18:32 05-02-2019 | 1              |            | FACE_NOT_RECOGNIZED (NA,NA)      | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 14:18:28 05-02-2019 | 1              |            | FACE_NOT_RECOGNIZED (NA,NA)      | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 14:18:20 05-02-2019 | 1              |            | FACE_NOT_RECOGNIZED (NA,NA)      | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 14:18:09 05-02-2019 | 1              |            | FACE_RECOGNITION (30, Shalini, I | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 14:17:59 05-02-2019 | 1              |            | FACE_NOT_RECOGNIZED (NA,NA)      | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 14:17:56 05-02-2019 | 1              |            | FACE_NOT_RECOGNIZED (NA,NA)      | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 14:17:50 05-02-2019 | 1              |            | FACE_NOT_RECOGNIZED (NA,NA)      | Samsung Wisenet Cameras (192.168.10.47) - Camera 1   | Visionserver |
| 14:17:19 05-02-2019 | 1              |            | (KL57FW9306.NA,UNKNOWN_LIST,I    | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |
| 14:17:13 05-02-2019 | 1              |            | (KA51D3047.NA,UNKNOWN_LIST,Er    | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |
| 14:17:11 05-02-2019 | 1              |            | (KA01ML8844.NA,UNKNOWN_LIST,I    | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |
| 14:17:10 05-02-2019 | 1              |            | (KA02AA6055.NA,UNKNOWN_LIST,E    | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |
| 14:17:08 05-02-2019 | 1              |            | (AS01MD1950.NA,UNKNOWN_LIST,I    | DirectShow Virtual Video Server (0.0.0.1) - Camera 1 | Visionserver |

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:

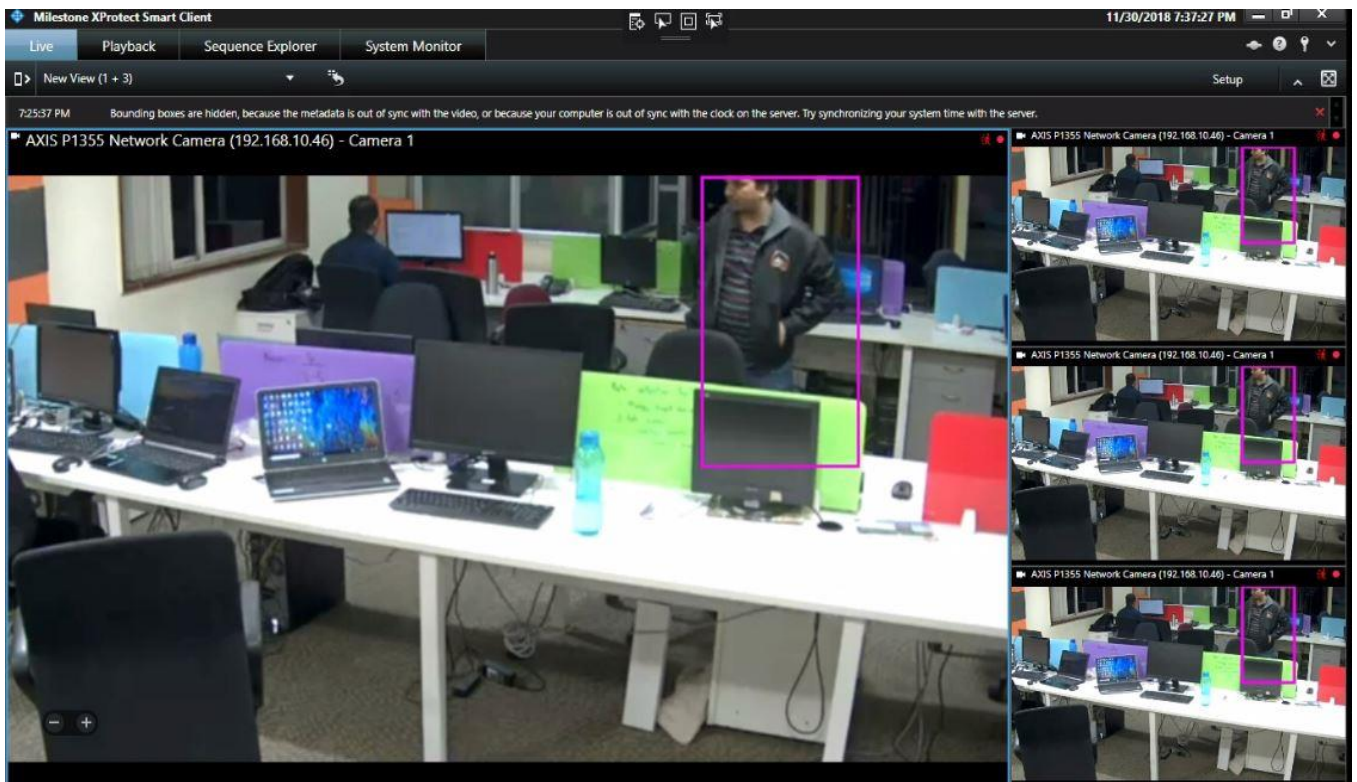
If Smart Client is 32 bit application:

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

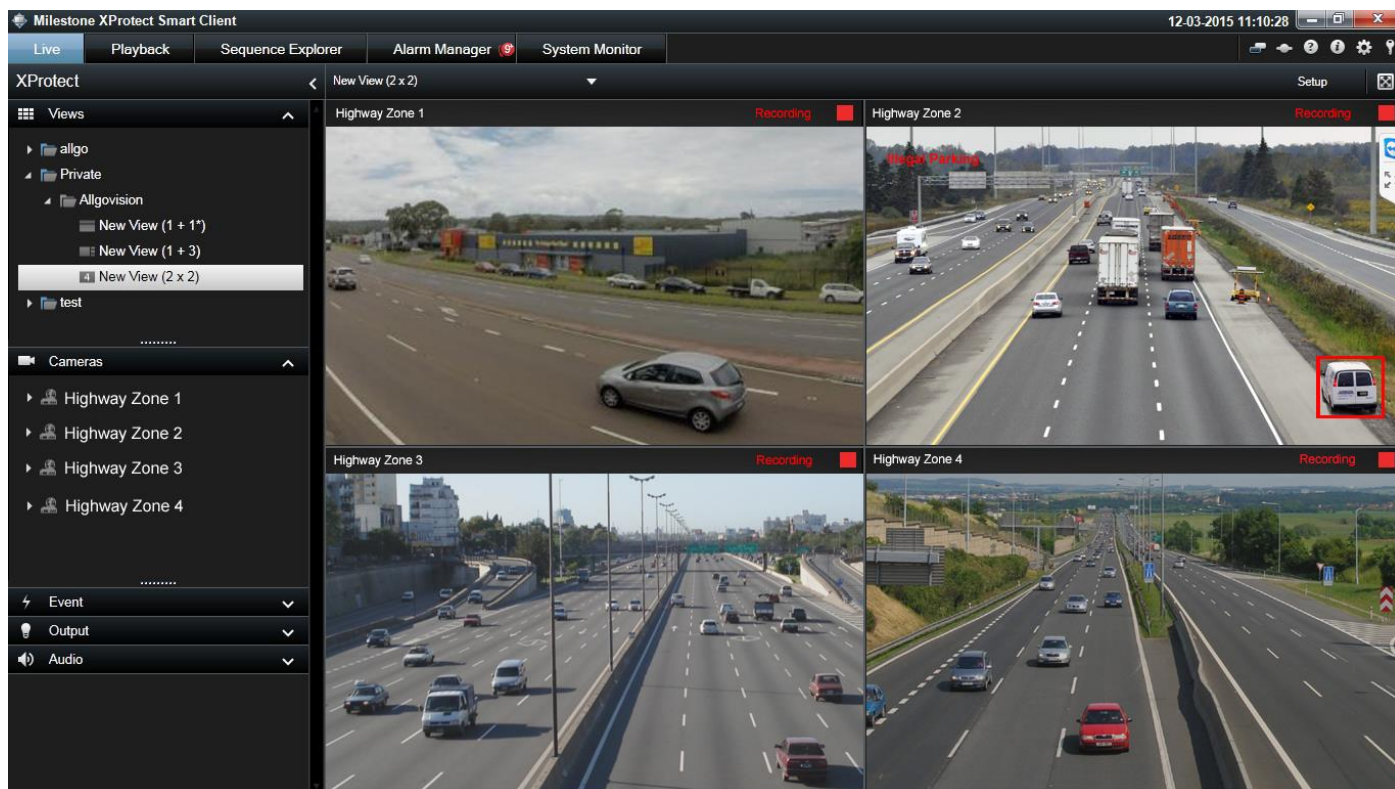
If Smart Client is 64 bit application:

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

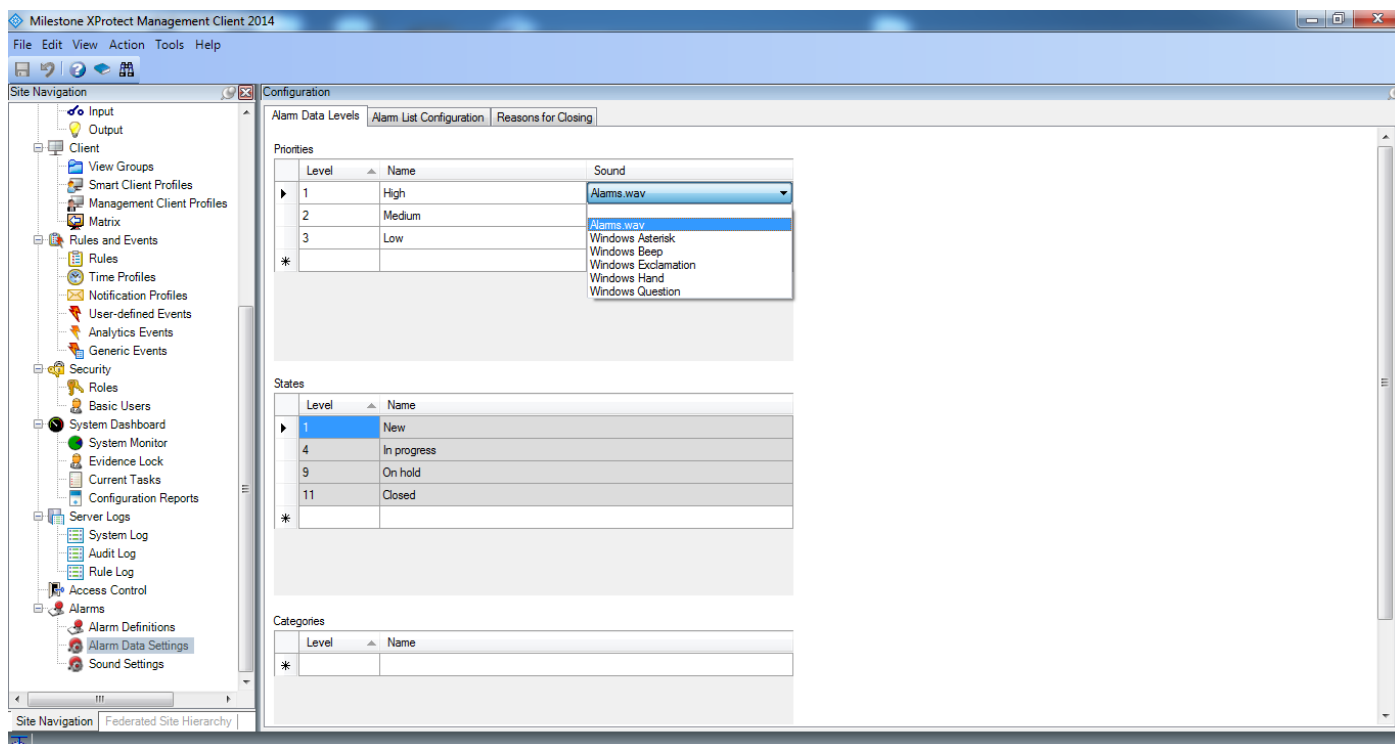
The alarms are shown on the Live Video



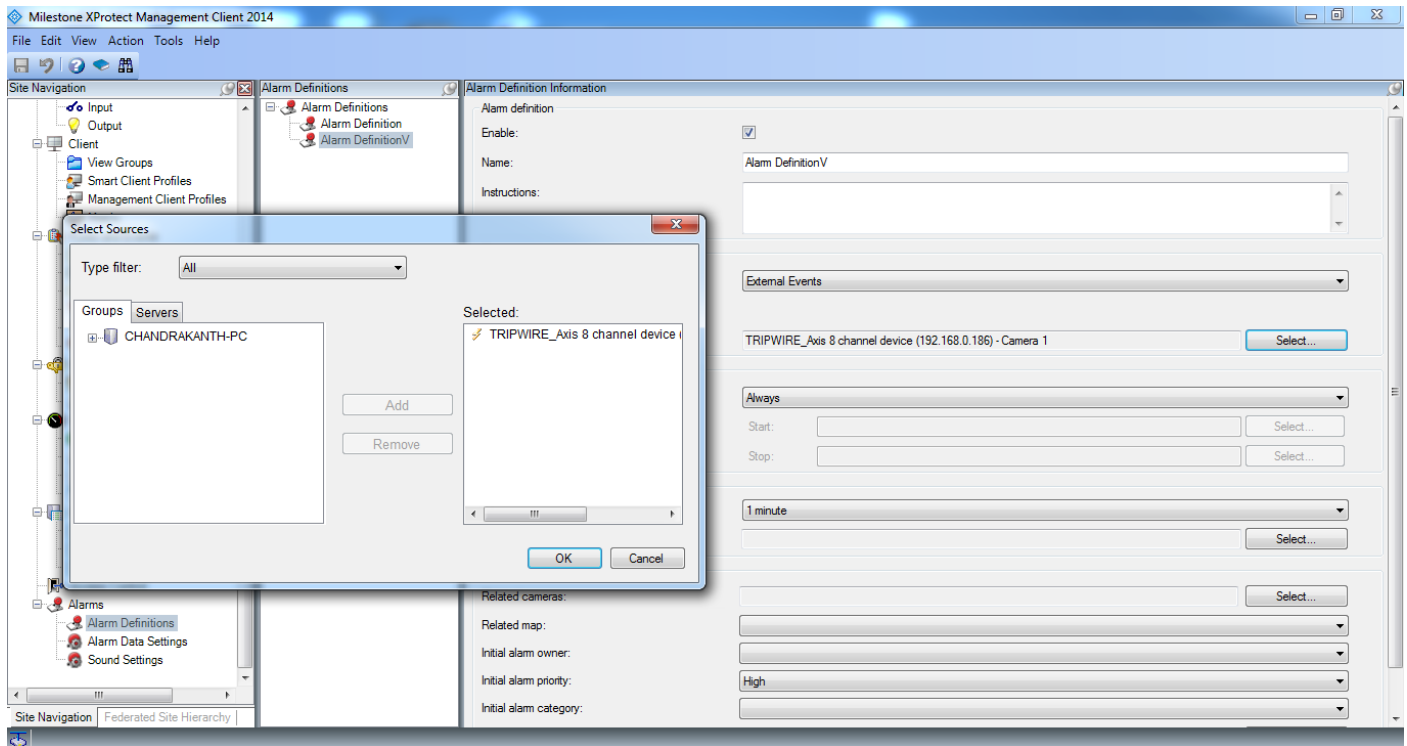
**Metadata output in Smart Client Live View**



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

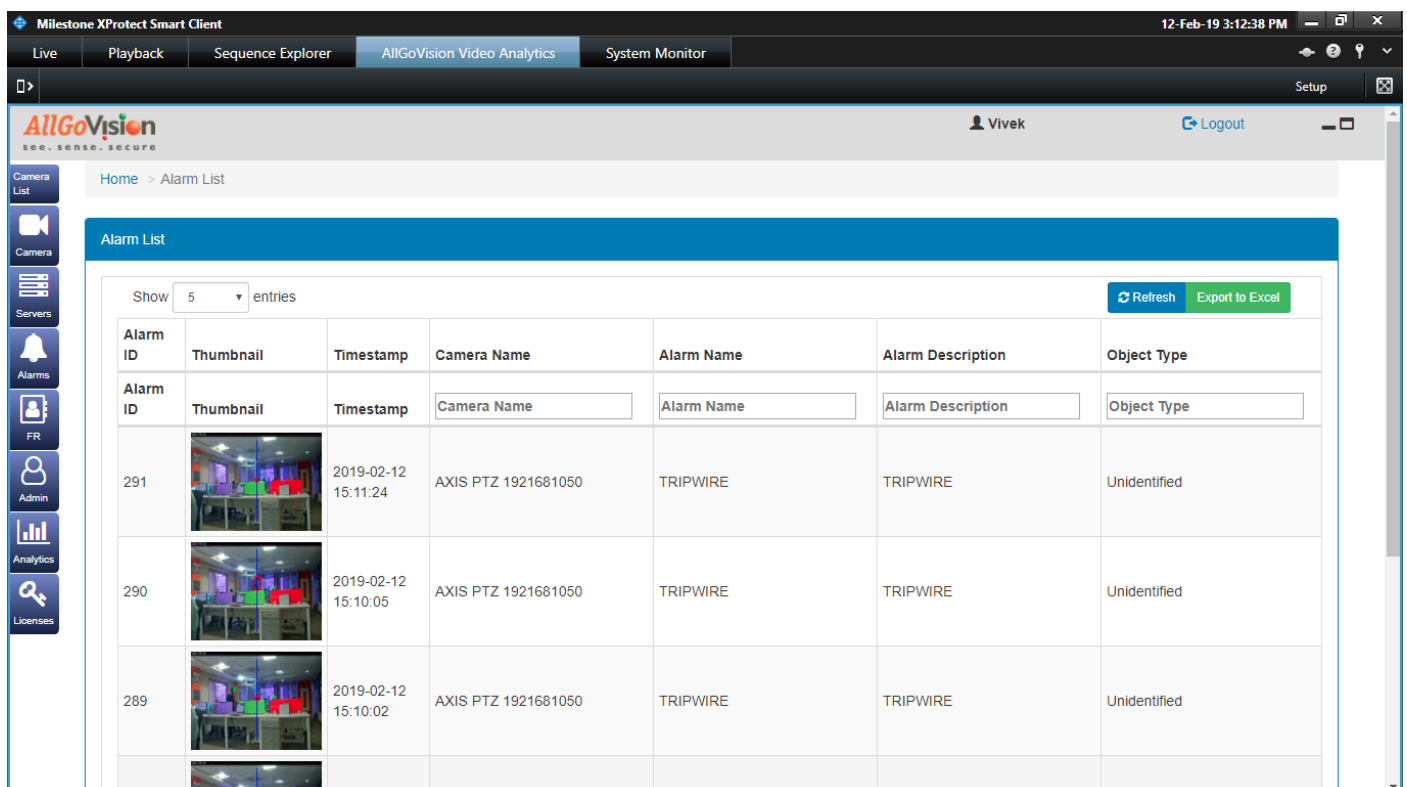


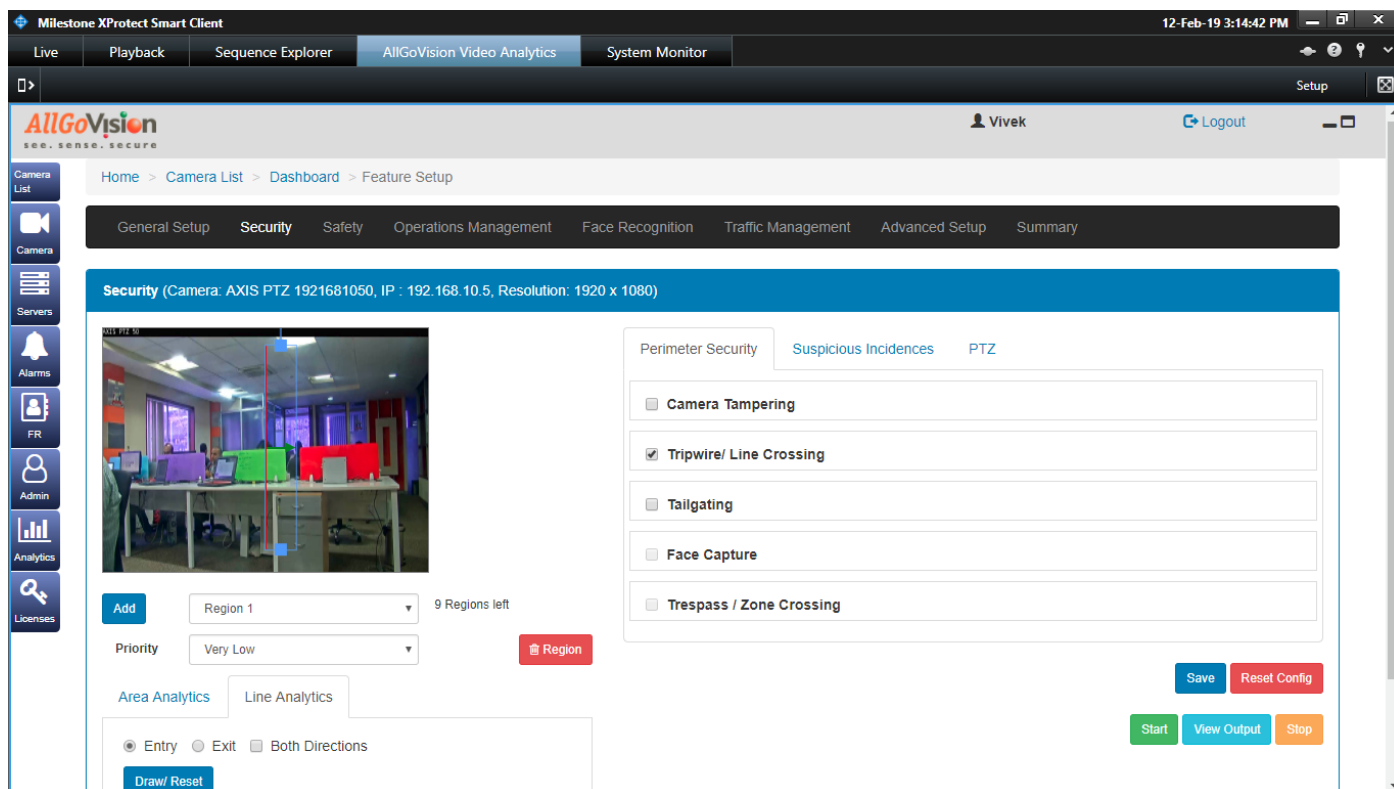
Then go to **Alarms > Alarm Definitions**, select **External Events**, and select the **event name** from the list of External Events, set **time** for alarm sound and alarm **priority**.



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.





## Project References

| Industry/<br>Verticals | Project Name                            | Region<br>of Deployment | Number of<br>cameras | Year of<br>Completion |
|------------------------|-----------------------------------------|-------------------------|----------------------|-----------------------|
| <b>Airports</b>        | Cochin International Airport Ltd (CIAL) | Cochin                  | 520                  | 2018                  |
|                        | Delhi Aerocity                          | Delhi                   | 103                  | 2015                  |
|                        | Raipur Airport                          | Raipur                  | 14                   | 2018                  |
| <b>Critical Infra</b>  | RBI                                     | Delhi                   | 560                  | 2017                  |
|                        | Mexican Presidentia                     | Latin America           | 40                   | 2018                  |

## AllGoVision Features compatible with Milestone XProtect

### AGV-VA | AllGoVision Video Analytics Software

|                   |                                           |                   |                                       |
|-------------------|-------------------------------------------|-------------------|---------------------------------------|
| AGV-VA-PKG-INTR-B | <b>INTRUSION DETECTION - BASIC</b>        | AGV-VA-PKG-CNTG-P | <b>PEOPLE COUNTING</b>                |
| AGV-VA-TRPW       | Tripwire*                                 | AGV-VA-PPLC       | People Counting*                      |
| AGV-VA-TRSP       | Trespass*                                 | AGV-VA-RPAN       | Reporting & Analysis                  |
| AGV-VA-TMPR       | Camera Tampering*                         | AGV-VA-PKG-MGMT-Q | <b>QUEUE MANAGEMENT</b>               |
| AGV-VA-PKG-INTR-A | <b>INTRUSION DETECTION – AUTO PTZ</b>     | AGV-VA-QUMT       | Queue Management                      |
| AGV-VA-PTZC       | Continuous Auto PTZ                       | AGV-VA-PKG-MGMT-T | <b>INTELLIGENT TRAFFIC MANAGEMENT</b> |
| AGV-VA-PTZH       | PTZ Handoff                               | AGV-VA-VHLC       | Vehicle Counting*                     |
| AGV-VA-PTZP       | PTZ Pre-set Position Analytics            | AGV-VA-WWDT       | Wrong Way Detection*                  |
| AGV-VA-PKG-SUSP-O | <b>SUSPICIOUS INCIDENT - OBJECT</b>       | AGV-VA-IPDT       | Illegal Parking Detection*            |
| AGV-VA-LODT       | Left Object Detection*                    | AGV-VA-SPDT       | Speeding Detection                    |
| AGV-VA-MODT       | Missing Object Detection*                 | AGV-VA-CNDT       | Congestion Detection                  |
| AGV-VA-PKG-SUSP-P | <b>SUSPICIOUS INCIDENT – OBJECT</b>       | AGV-VA-RLVD       | Red Light Violation Detection         |
| AGV-VA-TGDT       | Tailgating Detection*<br>(Person/Vehicle) | AGV-VA-PKG-MGMT-P | <b>PARKING MANAGEMENT</b>             |
| AGV-VA-LTDT       | Loitering Detection*                      | AGV-VA-PRMT       | Parking Management (Availability)     |
|                   |                                           | AGV-VA-PKG-LPDR-A | <b>LICENSE PLATE RECOGNITION</b>      |
|                   |                                           | AGV-VA-LPDT       | License Plate Detection               |
|                   |                                           | AGV-VA-LPRC       | License Plate Recognition             |
| AGV-VA-PKG-ADVS-C | <b>CROWD MANAGEMENT</b>                   |                   |                                       |
| AGV-VA-CRDT       | Crowding Detection*                       | AGV-VA-PKG-FACE-D | <b>FACE DETECTION</b>                 |
| AGV-VA-CCNT       | Crowd Counting*                           | AGV-VA-FCDT       | Face Detection / Face Capture         |
| AGV-VA-CFDT       | Crowd Flow Detection*                     | AGV-VA-PKG-FACE-R | <b>FACE RECOGNITION</b>               |
| AGV-VA-PKG-ADVS-S | <b>ADVANCED SAFETY – SMOKE</b>            | AGV-VA-FCRC       | Face Recognition / Verification       |
| AGV-VA-VSDT       | Video Smoke Detection                     |                   |                                       |
| AGV-VA-PKG-ADVS-F | <b>ADVANCED SAFETY – FIRE</b>             | AGV-VA-PKG-SRCH-A | <b>SEARCH &amp; ANALYSIS</b>          |
| AGV-VA-VFDT       | Video Fire Detection                      | AGV-VA-MDAS       | Smart Subject Search                  |
| AGV-VA-PKG-ADVS-P | <b>ADVANCED SAFETY – PERSON</b>           |                   |                                       |
| AGV-VA-SFDT       | Slip & Fall Detection                     |                   |                                       |

For details on any feature, please contact AllGoVision

\* : The features are available on the edge.

**Note:** The Product, Package & Feature Ids are given in Orange coloured codes

