

# **INSITES**<sup>™</sup>

This document contains the walk-through instructions to integrate your Milestone XProtect Video Management Software cameras to Insite AI Verification. This integration sends video clips triggered from Milestone XProtect 2023 R1 cameras to Evolon Insites for AI verification and classification of Persons and Vehicles.

Evolon Insites is an innovative cloud platform that's ideal for outdoor perimeter security, Evolon Insites leverages computer vision, AI, and video analytics to provide real-time threat detection, situational awareness, insightful forensic searches, and long-term event video archiving.



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#### INSTALLATION OF THE MILESTONE XPROTECT – INSITES PLUGIN

1. Run Installer - Evolon Insites for Milestone XProtect 1.x executable.

#### 2. Choose Everything

🛃 Evolon Insites for Milestone XProtect Setup		×
Choose Setup Type Choose the setup type that best suits your needs		を <b>evolon</b> INSITES
	XProtect Plugin Install Evolon Insites plugin for XProtect Smart Cliv XProtect Management Client	ent and
	Custom Allows users to choose which program features wi and where they will be installed. Recommended fo users.	ll be installed r advanced
<b>T</b> <b>T</b> <b>T</b>	Everything           Install Evolon Insites plugin for XProtect, and install Evolon           Install Evolon Insites Service (once per Milestone installation)	
Advanced Installer		
	<back next=""></back>	Cancel

- 3. Select Next
  - a. Once it runs it will prompt you for the login credentials for Milestone XProtect
    - i. Once prompted, use Windows Auth or Basic Auth

Evolon Insites: Milestone Login			
Milestone XProtect Login for Evolon Insites			
Milestone Server:	localhost		
Login Type:	Windows User     Milestone Basic User     Force Secure Login		
Username:	1		
Password:			
Cancel	Login		

b. Enter Credentials

- 4. Evolon Insite Virtual Metadata Device Modal
  - a. Note the assigned port 52123
  - b. Default Channels is 16, increase or decrease as needed
    - i. Once you have entered the number of channels, click select.

Evolon Insites: Metadata Provider		
Evolon Insites Virtual Metadata Device		
Hardware Address:	001122334466	
	Create New Hardware Address	
Port	52123 🔹	
Username:	root	
Password:	******	
Number of Cameras:	3 🔹 Select	
Cancel	Save Settings	

 Next installation modal will scan your Milestone XProtect Software for cameras. Here is where you can select which cameras you want to use Insites for verification. The installer will auto assign the metadata channels to your selected cameras.

Evolon In:	ites: Metadata Provider		×
Evolo	Evolon Insites: Metadata Provider		
r K	Select Cameras for Evolor	n Insites	
à.	Select cameras for Evolon Insites integration:		
n N N	Camera Group 1     AXIS Q6155-E PTZ Dome Network     AXIS Q1656-LE Box Camera (192.1)     AXIS Q1961-TE Thermal Camera (192.1)     AXIS Q19	Camera (192.168.1.17 58.1.33) - Camera 1 58.1.33) - Camera 5 58.1.33) - Camera 4 58.1.33) - Camera 3 58.1.33) - Camera 3 58.1.33) - Camera 6 58.1.33) - Camera 7 58.1.33) - Camera 7 58.1.33) - Camera 8 192.168.1.173) - Camera 8	4
	<	2	•
To remove existing Insites Metadata from a camera, remove the metadata channel from the camera's Client tab in the Milestone Management Client			
	Cancel	Save Camera Selection	

- iii. Once selected, click Save Camera Selection.
- iv. Click Save Settings

- v. In the XProtect Metadata Device Modal, click setup XProtect Insites Metadata
  - 1. This step creates the metadata channels and applies them to your selected cameras.
  - 2. Once complete and updated, click close. Note that you will need to restart the Windows Service Milestone XProtect Recording Service.



5. Click Finish

This step is complete. Next step is - Adding the Insites - Milestone XProtect Integration to Insites Portal

#### ADDING THE INSITES – MILESTONE XPROTECT INTEGRATION TO INSITES PORTAL

1. Down towards the bottom on the LH navigation in Milestone XProtect Management Client will be a new plugin item called Evolon Technology, under it is Insites.



- 2. Click on Insites
- 3. In the modal to the right of your site navigation tree, Insites is listed, right click and click add new.
- 4. In the Add Evolon Insite Modal
  - a. Give your site a name, this name will be used and configured in the Insites Portal.
  - b. Click Get Registration Key

Add Evolon Insites	×
Site Name	
Evolon QA Insites-Mi	lestone
Get Registration Key	Registration Key
Open Evolon Insites Portal	PLEASE REGISTER ON EVOLON INSITES PORTAL
	OK Cancel

- c. Copy this 5 digit code and login to you Insites Account.
  - i. Note you have 15 minutes to complete this task.
- 5. Navigate to https://insites.evolon.net in your Browser, click on the Gear next to Insites Logo.
  - a. Click on Register Device
  - b. Select the Customer that you want to register the Milestone XProtect System to or:
    - i. Select or create a new site that you want to register the Milestone XProtect System under.
  - c. Paste the Code and click Register.

Create Customer	Enter Code Received
Create Site	to register your device
Create User	Select V
Register Device	Site ' Select   ✔
SMTP Creation	Registration Code
Create SMTP Site (NVR, DVR)	
Create SMTP Camera	Register
Bulk SMTP Camera Creation	

- 6. You will receive a "device successfully registered" pop up banner.
- 7. Navigate back to Milestone XProtect Management Client
- 8. Click Ok
- 9. In the Next Modal you can add a description and/or change the location of the clips staging. This is the Info Tab. This is a temporary location for clip buffering when being sent to Insites for Al Verification.
  - a. Note: The API Key Field is not needed for any user or site configurations, it is informational only.

- 10. Click on the Events Tab
  - a. Click Person Detected and Vehicle Detected
    - i. Type Insites Person in the Person field
    - ii. Type Insites Vehicle in the Vehicle field
    - iii. Click Include overlay for Found Objects.
  - b. These will be the names that Milestone XProtect uses for Event Names.

Insites 🗸 🖓	Evolon Insites Information
Vinsites	୍ତ୍ର evolon
	Event Names
	Object Classified (general)
	2 Person Detected
	Insites Person
	✓ Vehicle Detected
	Insites Vehicle
	☑ Include overlay For Found Objects
	Generate Event For Every Frame

11. Make sure to save once these edits are complete.

This step is complete, next step – Setting up a Milestone XProtect Events with Person and Vehicle Analytic Event

#### SETTING UP A MILESTONE XPROTECT EVENTS WITH PERSON AND VEHICLE ANALYTIC EVENT

1. In the Milestone XProtect Management Client, navigate to the Analytics Events under the Rules and Events in your Site Navigation Pane.



- 2. Right Click and add New
- 3. Name Insites Person
- 4. Save
- 5. Right Click and add another New
- 6. Name Insites Vehicle
- 7. Save

These will be used with setting up your Alarm Definitions later in this walk-through.

We recommend that you keep the syntax/name the same across the setup and configuration.

This step is complete, next step - Setting up a Milestone XProtect Rule to configure Evolon Metadata Recording

#### SETTING UP A MILESTONE XPROTECT RULE TO CONFIGURE EVOLON METADATA RECORDING

- 1. Navigate to the Rules in the XProtect Management Client
- 2. Create a new rule and name it Evolon Metadata Record
- 3. Give it a brief description.
  - a. Perform an action in a time intervals always
  - b. Start recording immediately on Metadata; Evolon Insites (this group is automatically created from the initial plugin installation)
  - c. Perform an Action when time interval ends, stop recording immediately
- 4. Finish and save.
- 5. Your rule should look like this.

× Ru	iles 👻 🕂	Rule Information
	Rules Rules Default Goto Preset when PTZ is don Default Pay Audio on Request Rule Default Record on Bookmark Rule Default Record on Motion Rule Default Record on Motion Rule Default Record on Motion Rule Default Start Audio Feed Rule Default Start Feed Rule Default Start Headata Feed Rule Evolon Metadata Record	Name: Evolon Metadata Record Description: Record Evolon Metadata Channels ✓ Active Definition: Perform an action in a time interval always start recording immediately on Evolon Insites Perform an action when time interval ends stop recording immediately

- 6. You may want to inspect your motion triggering rule and make the following adjustments.
  - a. Start Recording 3 seconds before on the device on which event occurred.
  - b. Perform stop action on Motion Stopped from (selected cameras)
  - c. Stop recording 18 seconds after
- 7. These settings can be to your liking but for our walk through, these are the settings we used.

9 D.J.,	Dula laformation
Ittels     Ittels       Image: Brutes     Default Goto Preset when PTZ is don       Image: Default Goto Preset when PTZ is don     Ittels       Image: Default Record on Modition Rule     Default Record on Modition Rule       Image: Default Record on Modition Rule     Default Record on Modition Rule       Image: Default Record on Modition Rule     Default Record on Modition Rule       Image: Default Record on Modition Rule     Default Record on Modition Rule       Image: Default Start Addition Feed Rule     Default Start Metadata Feed Rule       Image: Default Start Metadata Feed Rule     Default Start Metadata Feed Rule       Image: Default Record     Ped Taijaging       Image: RecordAlways     RecordAlways	Name:         Default Record on Motion Rule         Description:         ✓ Active         Definition:         Perform an action on Motion Started from Camera Group 1. Thermal stat recording 3 seconds before on the device on which event occurred         Perform stop action on Motion Stopped from Camera Group 1. Thermal stat recording 18 seconds after

This step is complete, next step – **Configuring / Verifying Cameras with Metadata Channels** 



### CONFIGURING / VERIFYING CAMERAS WITH METADATA CHANNELS

Configuring Cameras with Metadata Channels (This process is now completed in the plugin installation process) if you did not select this in the initial setup, follow this steps)

Note: If Metadata channels are already configured in the client tab, proceed to step 4.

1. Navigate to and Click on Recording Servers, click on the recording server which you will be using and click on your camera that you will be using Evolon Insites for object verification.

Filter
🖃 🗂 Recording Servers
E E DESKTOP-ICUAKSQ
🛱 🛲 AXIS Q1656-LE Box Camera (192.168.1.33)
💦 AXIS Q1656-LE Box Camera (192.168.1.33) - Camera 1 🛛 🚽 🛶 🛶 🛶
🖮 🛲 AXIS Q1961-TE Thermal Camera (192.168.1.173)
🗄 🞰 AXIS Q6155-E PTZ Dome Network Camera (192.168.1.174)

2. Next click on Client in the lower left-hand side of the properties dialog box.



3. In the Properties dialog box, Client Settings. Ensure that the Evolon Insites Metadata Channels is assigned.

Properties	<b>▼</b> ₽
Client settings	
Related microphone:	
AXIS Q1656-LE Box Camera (192.168.1.33) - Microphone 1	Clear
Related speaker:	
AXIS Q1656-LE Box Camera (192.168.1.33) - Speaker 1	Clear
Related metadata:	
Evolon Insites - Metadata 1	Clear
	-
Contract	
anotau	
Live multicast	
🗊 Into % Settings 🔝 Streams 👅 Record 🛠 Motion 🔛 Fisheye Lens  Events 💷 Client 🚟 Privacy masking 🗞 Evolon Insites	

- 4. Click on the Evolon Insites Tab and complete the configuration items.
  - a. Ensure the Site is your newly created site.
    - i. Note: If blank, make sure to select your site created or the camera will not send clips.



- b. Camera Type Color or Thermal
  - i. Note: This determines the AI model / Algorithm that is used in Evolon Insites
- c. Trigger Event, in our example we are using Motion Detected (this is Motion Detection from Milestone XProtect)
- d. End after 10 seconds. 10 seconds is default.
- e. Set your confidence thresholds.
  - i. Note: We recommend 50% for both Vehicle and Person are used in our example.
- f. Save.



Once these steps are complete, you will not see your cameras Evolon Insites until a clip is sent based on your trigger.

Once a clip is sent to Evolon Insites to be verified, you can observe the Milestone XProtect Server Logs for the exchange of data between Milestone XProtect and Evolon Insites.

Note: it is recommended to restart the Milestone XProtect Events Service which will also restart the Evolon Insites Service.

System I	ogs Audit logs Rule-triggered logs		
6/6	6/2023 12:05 PM - 6/7/2023 12:05 PM \vee	Log level      Category     Source type      Source name     Event type	~
Log level	Local time	Message text	Category
Info	6/7/2023 12:04:50 PM	Successfully analyzed clip from AXIS Q1656-LE Box Camera (192.168.1.33) - Camera 1	Plug-ins
Info	6/7/2023 12:04:42 PM	Successfully analyzed clip from AXIS Q6155-E PTZ Dome Network Camera (192.168.1.174) - Camera 1	Plug-ins
Info	6/7/2023 12:04:42 PM	Sending clip from AXIS Q1656-LE Box Camera (192.168.1.33) - Camera 1 to cloud analysis service	Plug-ins
Info	6/7/2023 12:04:37 PM	Sending clip from AXIS Q6155-E PTZ Dome Network Camera (192.168.1.174) - Camera 1 to cloud analysis service	Plug-ins
Info	6/7/2023 12:02:14 PM	Successfully analyzed clip from AXIS Q1656-LE Box Camera (192.168.1.33) - Camera 1	Plug-ins
Info	6/7/2023 12:02:06 PM	Sending clip from AXIS Q1656-LE Box Camera (192.168.1.33) - Camera 1 to cloud analysis service	Plug-ins

You will see sending clip from and successfully analyzing entries.

When you log into Evolon Insites, you will now see the site and cameras in the left-hand tree from this Integration.

Welcome, JamieB		
Dallas Office	~	
Evolon QA Insites-Milestone	~	
AXIS Q1656-LE Box Camera (192.168.1.33) - Camera		
LTS DVR Dallas	~	
NRH Lab Cameras	*	

Select the camera and click on forensic search.



Click Filter and you will see clips with the object identified. Click on one of the clips to play and you will see the bounding box around the verified object.



**Note:** The blue shaded box is the mask that is created in Milestone XProtect Management Server Client, Motion Tab for your cameras. This is the exclusion motion mask.

les			•
Motion detection			
obon preview	Hardware acceleration:		
Use left and right mouse buttons to select/clear	Automatic		
	O Off		
			-
	Manual sensiovity	,	
	Threadhold		111
	<	>	
	Keyframes only (MPEG-4H.264/H.265)		
	Process image every (meec):	500	
	Detection resolution:	12%	
	Generate motion data for smart search		
	Use exclude regions		
		-	
	16x 16 ~	Show grid	
	Clear	Show regions	
The second	Pen size:		
The set of	Small	Large	
The second se			
	7		
	-		

As events from your other integrated cameras occur, these will begin to populate in Evolon Insites.





Note: if you are experiencing issues with the site and cameras not appearing in Evolon Insites, we recommend that you restart Milestone XProtect and Evolon Insites Services in Windows Services.

Steps Complete.

In the next steps, we will show you how to setup Alarm definitions in Milestone XProtect to have these events populate into the Milestone XProtect Smart Client



## SETTING UP A MILESTONE XPROTECT ALARM DEFINITIONS WITH PERSON AND VEHICLE

#### **ANALYTIC EVENT**

1. In the Milestone XProtect Management Client, navigate to the bottom of the Site Navigation Tree to Alarm Definitions.



2. Select Alarm Definitions, in the Alarm Definitions, right click and new.

Alarm Definitions			•		
🖃 🧏 Alarm Definitions	Alarm definition				
Alarm Definition	Enable:				
	Name:	Name: Alarm Definition			
	Instructions:		^		
	Trigger				
	Triggering event:				
	inggoing orona.				
			~		
	Sources:		Select		
	Activation period				
	Time profile:	Aways	~		
	O Event based:	Start:	Select		
		Stop:	Select		
	Man				
	An alarm only appears on the sn Alarm manager view:	mait map if at least one source of the alarm is a camera, an input device, or a microphone. Smart map  Maa			
	Related map:		*		
	Time limit	1 minutes			
	Events triggered:		Select		
	Other				
	Related cameras:		Select		
	Initial alarm owner:		~		
	Initial alarm priority:	1: Hgh	~		
	Alarm category:		~		
	Events triggered by alarm:		Select		
	Auto-close alarm:				
	Alarm assignable to Administrators:				

- a. Name Insites Person
- b. Trigger select Analytics Events
- c. In the next selection box, select Insites Person
- d. Sources select the camera or cameras that are configured with Insites.
- e. Time Profile use your selected time profile. In our walk through we are using Always.



- f. Initial Alarm Priority, we are using 1: High in our walk through.
- g. All other items can be left at default or changed to your needs.
- h. Save.
- 3. Do the same steps but for Insites Vehicle.

#### Your configuration should look similar to this.

Alarm Definition Information		<b>→</b> 4		
Alarm definition				
Enable:				
Name:	Aiam Definition			
Instructions:		^ ~		
Trigger				
Triggering event:	Analytics Events	~		
	Insites Person			
Sources:	AXIS Q1656-LE Box Camera (192.168.1.33) - Camera 1	Select		
Activation period				
Time profile:	Always	~		
O Event based:	Start:	Select		
	Stop:	Select		
Мар				
Alam manager view:	○ Smart map			
	• Мар			
Related map:		~		
Operator action required				
Time limit:	1 minute	~		
Events triggered:		Select		
Other				
Related cameras:		Select		
Initial alarm owner:		~		
Initial alarm priority:	1: Hgh	~		
Alarm category:		~		
Events triggered by alarm:		Select		
Auto-close alarm:				
Alarm assignable to Administrators:				

Once the definitions are set, you will now see events in the Milestone XProtect Smart Client Alarm Manager Tab with Insites Person or Vehicle in the Message and your Source will be the camera that is being verified by Insites.



# **EVOLON TECHNICAL SUPPORT**

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