

Integration Guide: innoVi – XProtect



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1 Overview

Integration of Milestone's XProtect with Agent Vi's innoVi offers a video analytics solution / service whereby events of interest are detected through real-time analysis of multiple video sources and sent to Milestone XProtect Smart Client

1.1. About this Guide

This guide outlines how to deploy and configure the integration of Agent Vi innoVi and Milestone XProtect

1.2. Enabling Procedure

To enable innoVi with XProtect:

- 1. Go to innoVi account, Settings tab
- 2. Click the event Action tab
- 3. The following window is displayed:

Cameras Events H	lealth Rules Investigation Users Settings						
General Event Action	Health Schedules						
Event Audio New event audio notification							
Alarm Automation Soft	ware						
Alarm Automation Software:	None						
Event to email Send event notification via email							



4. Set Alarm Automation Software to Milestone. The following window is displayed:



- 5. Note a unique token is displayed
- 6. Click the link "Download innoVi MIP Plugin Installer" and download the installer file to your desktop
- 7. Make sure the 'Enable' check box is checked
- 8. Click the Apply button
- 9. A green colored message is displayed: "Milestone Integration Updated"

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1.3. Mapping Cameras

1. To map an innoVi camera to the same device as it appears in XProtect, first retrieve the camera GUID (Globally Unique Identifier) in Milestone:

1.3.1. Professional+

- 1. Open configuration.xml file located in ProgramData/Milestone/Milestone Surveillance/configuration.xml on Milestone server
- 2. Search for the camera name in the configuration.xml
- 3. The camera GUID is shown beneath the camera name:



1.3.2. Corporate

1. Retrieve the camera GUID in Milestone:

The camera GUID is available in the Management Client. To find the GUID, select the XProtect Recording Server where the camera has been added, and then select the camera. Click the "Info" tab, press and hold Ctrl on your keyboard, and then click the camera's video preview





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- 2. Go to the innoVi camera's Settings tab
- 3. Enter the External ID using the camera GUID for this camera in XProtect

Dashboard	Events	Rules	Healt	h S	ettings	
Camera Info	mation					
Enabled						
Device Type:			innoVi Ed	ge		
Device:			innoVi Ed	ge 200 (21	JA6411X8	3V)
MAC Address:			EC:8E:85:7	73:C6:46 (0	Channel #	3)
ID:			3957			
External ID:		<	C544B6E	D5-B8E9-4	462 - 8727	-ACC8072475
Vi-Agent Version:			1.0.0 b1.4	794		
Sensor Type:			CCD		*	
Protocol:			RTSP		¥	
URL:			rtsp://***	*@		Streaming/Channels/101?transportmode
Analytics Set	tings					
Minimal Time Betv	veen Events:		15	sec		
Ignore Activity	/ Mask (Mask a	area must be o	drawn)			



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2. Event Integration Using MIP

Read this section if you want to view events in Milestone XProtect.

The integration of innoVi and XProtect, based on the Milestone Integration Platform (MIP), offers these benefits:

- Simple to configure. It takes just a few steps to be able to receive events for any number of cameras and any number of analytics rules per camera
- You can view past events, navigate to a video recording of a specific event, and view analytics tracking for that event

2.1. Overview of the Integration Process

- Install innoVi MIP Plugin
- Initialize innoVi's analytics integration in XProtect Management Client
- For the most common use-case of triggering analytics events and viewing alarms in Smart Client, refer to <u>Configure Default Agent Vi Analytics Event & Alarm</u> and <u>Configuring and</u> <u>Viewing in Milestone Smart Client</u>

2.2. Installing the innoVi MIP Plugin

Install the innoVi MIP Plugin on *all* PCs hosting:

- Milestone XProtect Event Server
- Milestone Management Application
- Milestone XProtect Smart Client

If an earlier version of the MIP Plugin is already installed, install the new version on top of it (i.e., upgrade).

> To install the innoVi MIP Plugin:

- 1. Close all Milestone's client applications such as Smart Client and the Management Client
- 2. Run the innoVi MIP Plugin installer file

Note: when the following window is displayed, do not change the default Destination Folder:





- > After installing the innoVi MIP Plugin:
- 1. On the Event Server PC, restart the **Milestone XProtect Event Server** Service (from Windows Services panel)
- 2. Start Milestone's client applications as required

2.3. Synchronizing Milestone Server

Verify the Milestone server is time synchronized as follows:

In the "Date and Time" Window, click "Change Settings"

📸 Date and Time 🛛 🗙
Date and Time Additional Clocks Internet Time
This computer is set to automatically synchronize with 'time.windows.com'.
This computer is set to automatically synchronize on a scheduled basis.
Change settings
What is Internet time synchronization?
OK Cancel Apply



Ensure synchronization checkbox is marked:

📸 Internet Time Settings	×					
Configure Internet time settings:						
☑ Synchronize with an Internet time server						
Server: time.windows.com 💌 Update now						
This computer is set to automatically synchronize on a scheduled basis.						
OK Cancel						



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2.4. Initializing innoVi in Milestone Management Client

- > To initialize the integration:
- 1. Open the Milestone Management Client
- 2. In the tree, expand MIP Plug-ins \rightarrow innoVi
- 3. Right-click innoVi server and choose Add New...



- 4. In the opened form (see below), specify:
 - innoVi server URL (as shown)
 - Account Key (copied from innoVi account, Settings tab)
 - Token (copied from innoVi account, Settings tab)

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innoVi Information	
Name:	innoVi-server 1
Server URL:	https://eu-innovi.agentvi.com
Account Key:	c80423d3-1518-4e5c-a5d8-e4a5db978958
Token:	3cc8d80354358875aa8da8af807d95b5c8c9cfad44f2bdc

- 5. Verify Analytics Events are enabled:
 - Open the **Options** dialog from the **Tools** menu and click the **Analytics Events** tab
 - Check Enabled under Analytics events:

Options	X
Bookmark User Settings Evidence Lock Audio Messages Access Control Settings Analytics Event Analytics events Imabled Pot: 9090 Security Events allowed from: Imable Imable <td>its Customer <></td>	its Customer <>
Help OK	Cancel

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2.5. Configure Default innoVi Event & Alarm

The default configuration described in this section allows for every event sent from innoVi to be reported as an alarm in Milestone's Smart Client.

The Event/Alarm triggering flows like this:

innoVi Detection Rule \rightarrow innoVi Analytics Event \rightarrow XProtect Analytics Event \rightarrow XProtect Alarm

2.5.1. Define innoVi's Analytics Event

- > To define an innoVi analytics event:
 - From the Management Client tree, navigate to Rules and Events (XPCO) or Events and Output → Analytics Events (XPE)
 - 2. Right-click it and choose Add New as shown below:

Site Navigation			→ ₽ X	Ana		
Management Client Profiles						
Matrix						
Rules and Events						
Rules						
Generic Events Add New Ctrl+N						
🖨 🐗 Security	$\overline{\mathbf{a}}$	Pefrech	55			
🖓 Roles	L	Nerresit		1		
🔜 🤶 Basic Users			-			
🖶 🕥 System Dashboard						
Current Tasks						
System Monitor Thresholds						
🛛 🔒 Evidence Lock						
Configuration Re	eport	s	-			





3. In the opened form (shown below), specify the event Name as innoVi Event:

Analytics Events 🚽 🕂	Properties	▼ 꾸
Analytics Events	Name: innoVi Event	
		Test Event
	Description:	
1		

 	10		
 ~.			•••
p	por	porta	portan

In Step 3 above, name the new entry exactly as specified: innoVi Event

2.5.2. Define an Associated Alarm

Choose the Alarm Data Settings node (under the Alarms tree) and switch to the Alarm List Configuration tab

- 1. Verify that the recommended attributes are included: **Time**, **Source**, **Tag** and **Message**. Add any of the attributes if missing
- 2. Right-click Alarm Definitions under Alarms and click Add New...
- 3. In the **Triggering event** field, choose **Analytics Events** in the upper list and **innoVi Event** in the lower list as shown below
- 4. In the **Sources** field, click **Select**; in the Select Sources screen that opens, open the **Servers** tab, choose **All cameras** and **Add** it to the Selected list
- 5. Save the Alarm Definition by clicking OK

Alam definition		
Enable:		
Name:	innoVi Alam	
Instructions:		*
		Ŧ
Trigger		
Triggering event:	Analytics Events innoVi Event	 ▼
Sources:	All Cameras	Select

2.5.3. Restart the Milestone XProtect Event Server service

Following completion of the above steps, restart the Milestone XProtect Event Server service for the configuration to take effect

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2.6. Configuring and Viewing in Milestone Smart Client

1. Open the Milestone Smart Client

2. Define a view:

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- a. Choose a Live view panel on the left-hand side of the application window
- **b.** Click the **Setup** button on the right-hand side of the application window:



- c. Define a new View: first define a new group; right-click the newly created group name and define a new view, for example, $(1 + 2^*)$; it is unimportant which one is chosen so long as it is broad enough to contain the alarms list.
- **d.** From **System Overview** drag the **Alarm List** item to the broad part of your newly created view
- e. Note that you can change the order of the Alarm List columns It is recommended to move the Tag column to the right so that its value becomes visible, since it contains an event description
- f. In System Overview, expand the cameras list and drag the relevant cameras to the remaining views
- 3. When switching to the Live View tab:
 - a. All generated events appear in the list
- 4. When switching to the **Playback** tab:
 - a. The camera view switches to the relevant event time when you click on an event
 - b. The event plays back when you click the Play button in the Time Navigation window on the left
- 5. In the Alarms list, note the Tag column containing the analytics event description (e.g., 'Vehicle moving in an area'). If the Tag column is unavailable, right-click the table header bar to add it. If you are still unable to add it in conjunction to XPCO, refer to Alarm Data Settings in XProtect Management Client described <u>above</u>.

Alar	rms <i>No filter</i> ❤						
	Time 🔺	State	State Name	Message	Source	Tag	ID
2	10:59:56 AM 9/12/2017	1	New	innoVi Event	AXIS Q1615 Fixed Network Camera	Person moving in an area	42053
	10:59:15 AM 9/12/2017	1	New	innoVi Event	AXIS Q1615 Fixed Network Camera	Vehicle moving in an area	42052
	10:58:43 AM 9/12/2017	1	New	innoVi Event	AXIS Q1615 Fixed Network Camera	Vehicle moving in an area	42051
2	10:58:12 AM 9/12/2017	1	New	innoVi Event	AXIS Q1615 Fixed Network Camera	Vehicle moving in an area	42050
	10:57:39 AM 9/12/2017	1	New	innoVi Event	AXIS Q1615 Fixed Network Camera	Vehicle moving in an area	42049
	10:57:04 AM 9/12/2017	1	New	innoVi Event	AXIS Q1615 Fixed Network Camera	Vehicle moving in an area	42048
2	10:56:30 AM 9/12/2017	1	New	innoVi Event	AXIS Q1615 Fixed Network Camera	Person moving in an area	42047
	10:55:59 AM 9/12/2017	1	New	innoVi Event	AXIS Q1615 Fixed Network Camera	Vehicle moving in an area	42046
2	10:55:25 AM 9/12/2017	1	New	innoVi Event	AXIS Q1615 Fixed Network Camera	Vehicle moving in an area	42045
24	10:54:48 AM 9/12/2017	1	New	innoVi Event	AXIS Q1615 Fixed Network Camera	Vehicle moving in an area	42044

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2.7.	Troubleshooting	innoVi MIP	Plugin	Integration
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Problem	Corrective Action		
The user does not see innoVi under the MIP plugins node in Milestone XProtect Management Client	Verify the innoVi MIP plugin is installed		
The user does not see Alarm definitions under the Alarm node in Milestone XProtect Management Client	Verify the service of Milestone Event Server is running		
There are no analytics alarms in Smart Client	 Verify the Vi-Server parameters in XProtect Management Client are correctly defined Restart the Milestone Event Server if it was not restarted after defining Vi-Server properties Verify innoVi Event is defined and a matching alarm. Note it is case sensitive. It must be correctly connected to the alarm definition 		
In Smart Client there is no metadata (or the metadata is partial) when playing back recorded video	 Click the Play button again in case it was not clicked the first time 		
In Smart Client there are no alarms in Alarm List , the header is red, and it displays a message regarding user privileges	 Verify the user connected to the Smart Client has sufficient user privileges: In XProtect Management Client, check the properties of the user under Advanced Configuration > Users 		
All the above actions did not help; you are still unable to view analytics events in Milestone. Follow the instructions under the Corrective Action column to the right, to obtain Milestone MIP log files.	 Enable viewing hidden files and folders on Milestone's machine Open Milestone XProtect Smart Client installation directory. By default, it is installed at C:\Program Files\Milestone\XProtect Smart Client or at C:\Program Files (x86)\Milestone\XProtect Smart Client for 32 bit Smart Client versions Open the client.exe.config file Uncomment the commented elements in <logger name="MIPLogger"></logger> (Delete " < ! " and "> " at the beginning and the end of the line) 		



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Problem	Corrective Action		
	Reproduce the issue		
	Copy the C:\ProgramData\Milestone directory		
	into a <i>zip</i> archive and send it to your support		
	team		
Smart Client:	Open the XProtect Management Client		
There's no possibility of adding a Tag column to	Choose the Alarm Data Settings on the right		
the Alarm List	Choose the Alarm List Configuration tab		
	Add Tag to the Selected Columns list		
	Save the new setting		
Smart Client:	May occur because the Enhanced Security		
An error occurs when opening the Smart Client	Configuration for the current user is turned on		
on Windows Server 2008	• To turn it off, open the Security Information in		
	the Server Manager and set the Enhanced		
	Security Configuration to be Off for the		
	relevant user type		
The recorded video is not synchronized with	Verify Milestone PC clock is synchronized with		
object metadata overlays	the cloud		

3. Contact Agent Vi Support

Review the innoVi Resources page at agentvi.com/innoVi-resources

If you don't find the answer you are looking for, there are multiple ways to contact the Agent Vi Support Department:

- Use the "Contact Support" option from within innoVi (top right menu) ٠
- Use the innoVi support form on Agent Vi's website: • https://www.agentvi.com/support/innovi-request/
- Email innoVi-support@agentvi.com •



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