### **VMS Integration Document**

### **Graymatics Video Analytics | Milestone VMS**

Version 1.0

**Release Date: September 2021** 



#### Contents

#### **Table of Contents**

Contents	1
COPYRIGHT INFORMATION	2
INTRODUCTION	3
SYSTEM REQUIREMENT	3
INTEGRATION WITH MILESTONE	4
Graymatics Dashboard client Features	4
Configuration needed in Graymatics Dashboard	5
EXTERNAL EVENT CONFIGURATION IN MILESTONE	7
Milestone Meta Data Support	12
Metadata output in Smart Client Live View	21

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#### INTRODUCTION

Graymatics is a Video Analytics software product for actionable intelligence in security installations. The Analytics are including CitySurveillance, Building Surveillance, Business Intelligence, Loss Prevention, Consumer Behavior Analysis, Monitoring Traffic Flow, Parking Management and more 100 AI use cases.

The Graymatics 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, Graymatics easily and tightly integrates with many VMS including Milestone. This document provides details on Graymatics integration with Milestone XProtect.

#### SYSTEM REQUIREMENT

CATEGORY	REQUIREMENT
Operating System	Ubuntu 18.04 Server: Ubuntu 18.04 LTS server
Network	Ethernet, 1 Gbit or higher recommended.
Hardware Requirement	x86 Platform, 64 bit, AVX2 support 6 <sup>th</sup> Gen or higher
Server requirement	Core i7 (6 Cores), 3 GHz, 32 GB RAM for up to 15 channels Xeon 6 core, 3 GHz, 32 GB RAM for up to 15 channels Xeon 12 core, 3 GHz, 64 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 all DL based features <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 , People Counting, Traffic features and LPR.
Stand Alone versioncamera support (Works with/withoutVMS)	Any other camera requires URL to connect camera and get video feed. Models from Axis, Pelco, Bosch, Sony, Honeywell, Hikvision, Dahua, Panasonic,Brickcom, Indigovision, Cisco, Samsung, Acti, Vivotek, FLIR, Digital Watchdog, and others (ONVIF Cameras). Any Camera with RTSP stream URL. Supports MJPEG, H.264, MPEG4 Supports ONVIF camera,
VMS Software	Milestone (Express/Expert/Professional/Enterprise/Corporate)

Graymatics analytics has the following system hardware and software requirements.

#### INTEGRATION WITH MILESTONE

> Graymatics application is installed in the Ubuntu Server with GPU.

GRAYMATICS

- > Graymatics can take the Video feed directly from Camera.
- > Graymatics send alarms to Smart Client application.



**Graymatics Dashboard client Features** 

- 1. Graymatics Management client connects to Milestone and gets video feed
- 2. The analytic rules are set in Graymatics dashboard and started as service
- 3. The alarms are sent to Event server of Milestone
- 4. Graymatics sends events to Milestone as well
- 5. Graymatics sends metadata to Milestone so that it can be seen in Live view

#### **Configuration needed in Graymatics Dashboard**

Addition of Cameras in the Dashboard.

To Add a Camera just enter the RTSP URL of the camera and click on add camera.

Input feed URL:						
/home/videos/town.avi		intrusion •	~	add camera	start analytics	
camera	algo	view			remove	

#### Starting the Analytics

Input feed URL: /home/videos/town.avi		intrusion 🗸	add camera	start analytics		
	camera			algo	view	remov
/home/videos/town.avi			intrusion		Ο	X

To start the analytics click on Start Analytics

#### Deleting the Analytics

camera		algo	view	remove
/home/videos/town.avi	intrusion		Ο	X

To delete analytics, click on remove icon.

#### Selecting the Camera Stream to Display Live

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/home/videos/town.avi	intrusion		Ο	X

#### Click on View icon to open the analytic view of the camera. On Clicking below view will appear.

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Tue, 14 Dec 2021 04:54:38 GMT	1639457673_14
Tue, 14 Dec 2021 04:54:34 GMT	1639457673_13
Tue, 14 Dec 2021 04:54:33 GMT	1639457673_1

#### **EXTERNAL EVENT CONFIGURATION IN MILESTONE**

Graymatics 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

Graymatics sends external events as "AlarmName\_CamerName". For example, if camera name is Highway1 and Loitering application is running in Graymatics, whenever Graymatics 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 Graymatics, 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.

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- 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

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

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#### **Milestone Meta Data Support**

Graymatics 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.



2. Alarms sent by Graymatics can be seen in Live Video of Milestone Smart client Graymatics provides live view of alarms via Universal driver. The streams from the dashboard can be accessed via RTSP stream over Universal driver in client. In order to do that we need to add the universal driver as shown in the below steps:

Open the Management client and select the recording server.

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- Cameras					Stop				~	
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- 👻 Metadata	Add Address	Port	Hardware model	State						
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#### Check hardware and camera port and click next

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Servers	Hardware and cameras are enabled per default. M The hardware and its devices will be assigned au	anually enable additional devices to be used. to-generated names. Alternatively, enter names manually.	milestone	^	
Cameras		De la constantina			
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Rules	Microphone port 1:	Universal 1 channel driver (192.168.1.102) - Microphone 1			
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#### Select group and click finish

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Select     Select     Mobile Servers     Select     Altern	t a default group for all devices types. natively, select device group individually for	r each device.		nilestone		^	
Devices Default	camera group:	Davicae	Add to Group				
Microphones Camer	ra Group 1 📔 👩	Cameras	/ Not to Group			~	
Speakers     Default	microphone group:	Universal 1 channel driver (192.168.1.102)	Default Group	~			
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### Once added click on universal channel 1 and mention the stream url

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Save changes after the url is entered.

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If the setting is right and the port/ip is forwarded, the stream will be valid and the driver will work perfectly.



#### Click on Option to configure option

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#### Goto Analytic events and check the Enabled box and click OK

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#### Metadata output in Smart Client Live View

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

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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.

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Site Navigation GR Alarm Definitions	Alarm Definition Information		9
Alarm Definitions	Alam definition		
Client Aarm Definition	Enable:		
Part View Groups	Name:	Alarm DefinitionV	
- 😥 Smart Client Profiles	Instauctions:		
Management Client Profiles	Instructions.		
Select Sources	×		*
Type filter: All		(	
		External Events	
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	TRIPWIRE_Axis 8 channel device I	TRIPWIRE_Axis 8 channel device (192.168.0.186) - Camera 1	Select
		A	
Add		Aways	
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R Alarms	Related cameras:		Select
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For more details on external event creation and setting rules, refer Milestone XProtect Administrator's Manual.

# THANK YOU