



Tattile Vega plugin for Milestone XProtect Smart Client

Original Instructions for Installation

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1 About this Document

1.1 Scope of this Document

This document is intended to provide the user information about installation and use of Vega Plugin for Milestone XProtect Smart Client, as well as guidelines for the connection between Tattile cameras and the system.

1.2 Who this Document Is For

Summarizes the groups this document is aimed at, also specifying the pieces of information of main interest in order to better understand the described product.

Readership group	Description	Aim
End User	Operator	Supply all information on: <ul style="list-style-type: none">• Product usage
System integrator	IT administrator responsible for product integration and configuration.	Supply all information on: <ul style="list-style-type: none">• Product installation• Product characteristics• Product usage

Table 1 - Who this document is for

1.3 Typographic Conventions

Summarizes typographic conventions and/or styles used in this document.

Convention	Meaning
✓ Prerequisite	Preceding condition required before an action.
► Action	Single action.
1. Step	One of a sequence of actions.
– Sub step	Additional steps of an action or a step.
Intermediate outcome	Result of a step.
➔ Outcome	Result of an action or a sequence of actions.
2. List	List of elements.
– Sub list	Additional elements of a list.
Save	Buttons, windows, tabs; software modules.
[CTRL]	Keyboard strikes
true	Inserted or selected value.
"Finished OK"	Program messages.

Table 2 - Typographic conventions

⚠ DANGER! Type and source of danger! (indicates a hazardous situation, that if not avoided, will result in death or serious injury)!

Possible consequences (optional).

- ▷ Preventive measure.

NOTICE! Type and source of danger! (used to address practices not related to physical injury)!

Possible consequences (optional).

- ▷ Preventive measure.



Useful suggestion or additional information.

- ▷ Preventive measure.

2 Introduction to Tattile Vega Plugin

2.1 Scope and Use of the Product

Tattile Vega Plugin is the plugin for Milestone XProtect Smart Client, designed to full integrate the Tattile Vega camera with Milestone VMS. Its main features are:

1. Retrieve and show the events archived in the Milestone VMS. Basically, the Tattile Vega camera send to Server Milestone two event types:
 - **LPR/ANPR** events: triggered by the process LPR/ANPR that generate metadata related to Licence Plate Number and vehicle's characteristics.
 - **Diagnostic** events: triggered by diagnostic process that generate metadata related to status of the camera's sensor.
2. Filter events of type: LPR and Diagnostic.
3. Manage Camera Check Lists.

The network architecture used to integrate Tattile camera in Milestone VMS is composed by:

4. Tattile vega camera
5. Public/Private Network
6. Milestone Xprotect Management Client
7. Milestone XProtect Smart Client

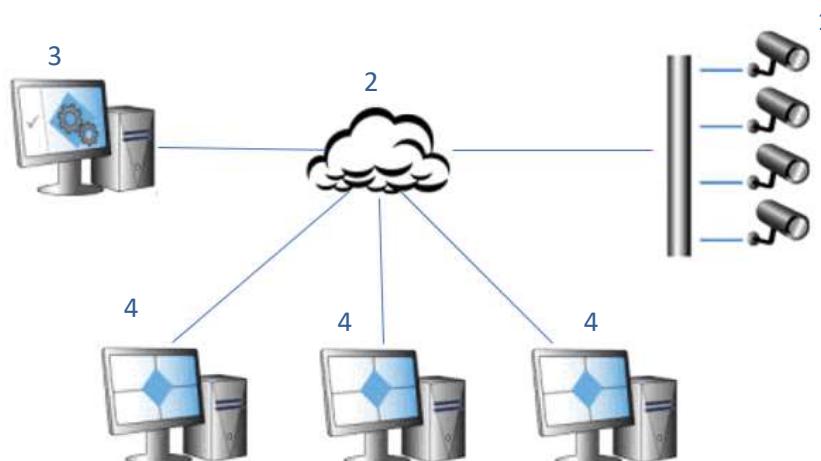


Figure 1– Network Architecture

2.2 Graphical User Interface

After the login, main page presents two additional tabs:

- History
- Diagnostic

List of events

Filters

The screenshot shows a software interface with a dark theme. At the top, there's a navigation bar with tabs: Live, Playback, Search, Events Manager, Property, WebBased Plugin, Diagnostic, History, Excel Alarms, and System Monitor. The History tab is currently selected. Below the navigation bar is a table titled 'List of events' with columns: Camera ID, Camera Name, Date/Time, Vehicle Brand, Vehicle Class, Vehicle Model, Speed, Image OCR, Image Context, Time Stamp, and Go Home. There are eight rows of data in the table, each showing a thumbnail image of a vehicle. To the right of the table is a sidebar titled 'Filters' containing several dropdown menus and checkboxes for filtering results based on vehicle type, color, license plate, and other parameters.

Figure 2 - Graphical user interface

2.3 History Plugin

History Plugin allow the user to show all ANPR metadata generated by the process ANPR internal to Tattile Camera. The LPR/ANPR metadata are related to the licence plate number, vehicle's characteristics, images OCR and Context.

The History Plugin is shown below:

This screenshot is identical to Figure 2, showing the 'History' tab selected in the navigation bar. It displays the same 'List of events' table and 'Filters' sidebar. The table contains eight entries of vehicle data with corresponding thumbnails, and the sidebar provides various filtering options for the search results.

Figure 3 - History tab

The table lists the available elements of the device list table and the corresponding context information.

Element	Description
 Date	Filter elements by date/time
License plate number	License plate number
Camera Name	Device name
Date/Time	Event Time
Date/Time UTC	Time in GMT
Vehicle Brand	Vehicle brand, if BCC is active in Tattile camera
Vehicle Class	Vehicle class
Vehicle Color	Vehicle Colour, if BCC is active in Tattile camera
Vehicle Model	Vehicle model, if BCC + M is active in Tattile camera
Latitude	Geographic coordinate, if GPS is active in Tattile camera
Longitude	Geographic coordinate, if GPS is active in Tattile camera
Country	License plate country
Region	License plate region
Plate Color	License plate colour
Speed	Vehicle speed
Image OCR	Image representative of the event
Image Context	Colour image of the event, only from camera with colour sensor
Time stamp	Event timestamp
OCR event	OCR event description (OCR read; OCR Not Read; No plate)

Table 3 - List of fields of History table

The Filter area allows to select between different fields:

Element	Description
Camera Name	Device name
Vehicle Classes	Vehicle Class
Vehicle Brand	Vehicle Brand, if BCC is active in Tattile camera
Vehicle Model	Vehicle Model, if BCC + M is active in Tattile camera
License plate number	License plate number
OCR event	OCR event description (OCR read; OCR Not Read; No plate)
Region	License plate region
Country	License plate country
Plate Color	License plate Colour
Vehicle Color	Vehicle Colour, if BCC is active in Tattile camera
Checklist	Lists of license plate

Table 4 - Filters list of History table

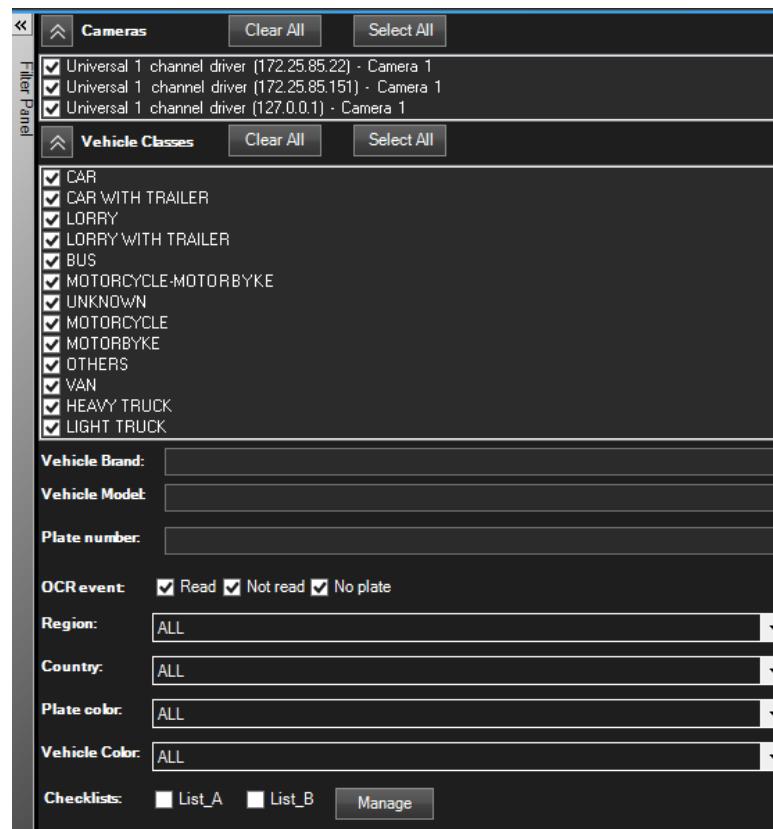


Figure 4 - History filter panel

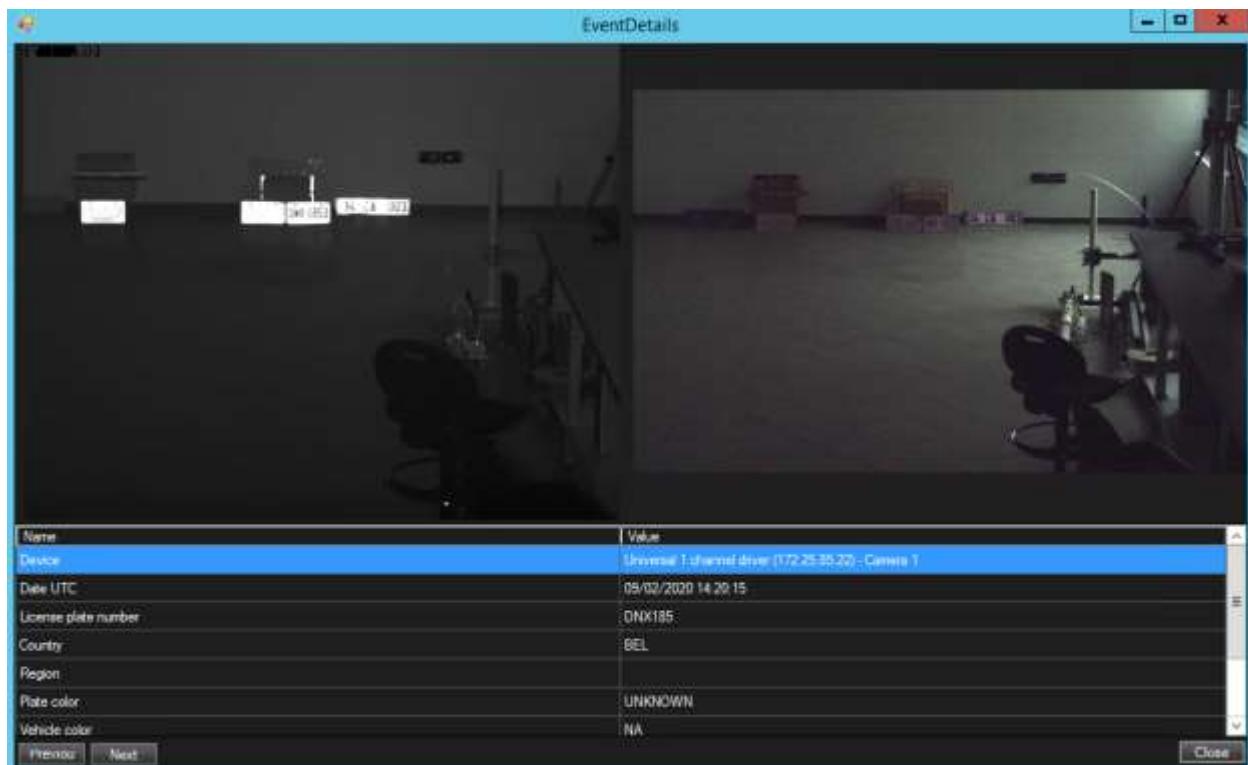


Figure 5 - Double click event details

2.3.1 Checklist management

License plate list management represents another feature of the Tattile Vega plugin, which can be accessed through the button “Manage”.



Figure 6 - Checklist manage button

Refer to Vega Manual for further information.

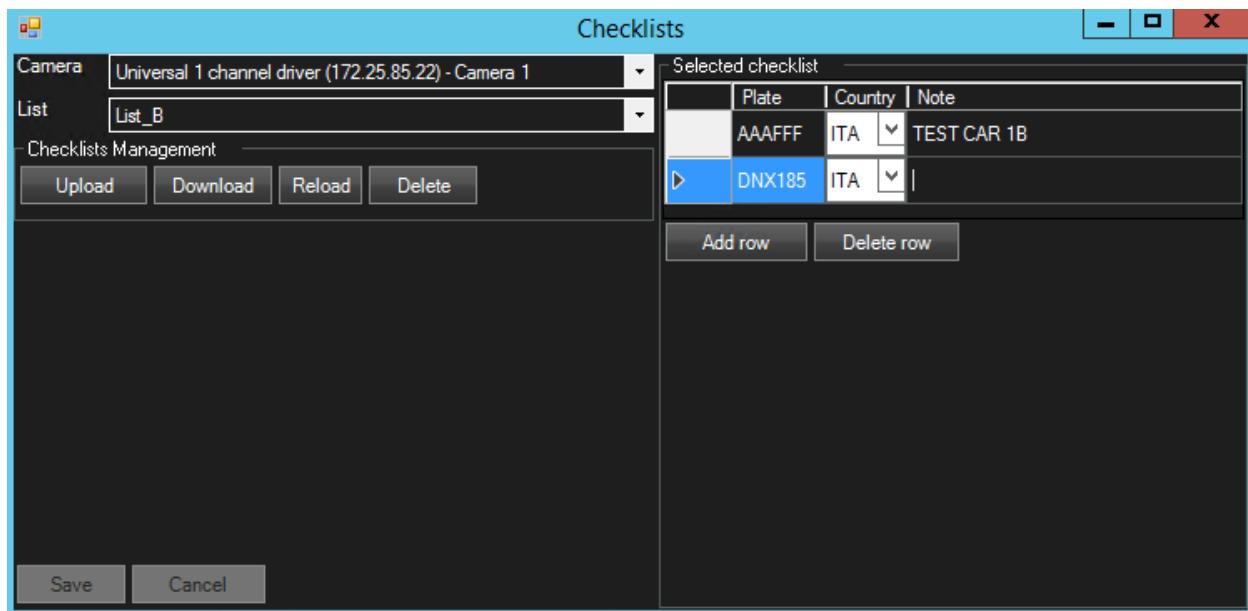


Figure 7 - Checklist management dialog

Left side of the dialog page relates to checklists management, while on the right it is possible to operate on the license plates stored in the selected list.

Checklist management

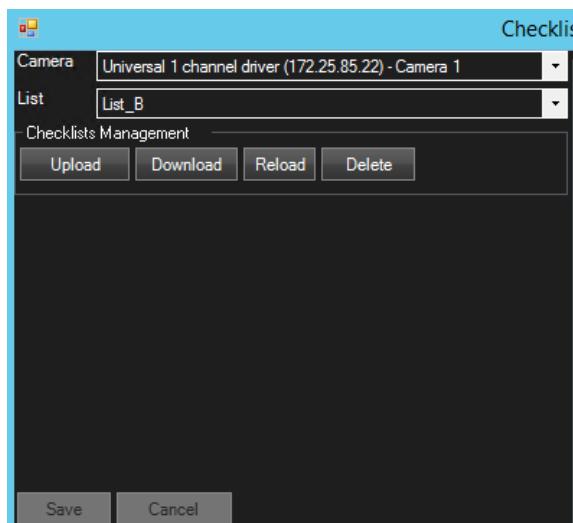


Figure 8 - checklists management

Function	Description
Camera	List of available Tattile cameras
List	List available stored on selected Tattile camera
Upload	Select from the local PC a list and upload to the camera, this operation overrides the selected list.
Download	Download as txt file the selected list.
Reload	Reload the list of license plate in the right side
Delete	Delete the selected list

Table 5 - Checklist management features

List management

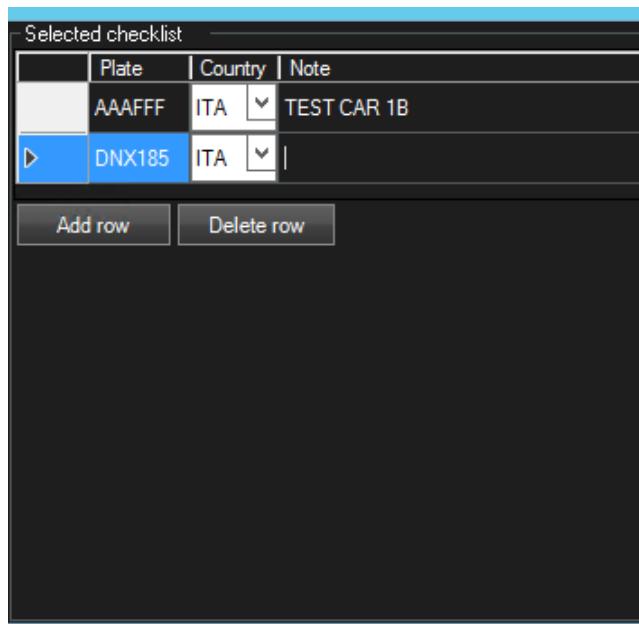


Figure 9 - license plate management

Function	Description
Plate	License plate number
Country	Country ISO alpha-3 formats
Note	Additional notes.
Add Row	Add a row in the list above.
Delete Row	Delete the selected row

Table 6 - List management features

2.3.2 Showing MatchList_A/B alarms in Alarm Manager

When Vega camera recognize vehicle which licence plate number match with ones in “Checklist A” or “Checklist B”, a corresponding alarm “MatchList_A” or “MatchList_B” will be show in the Alarm Manager plugin, as shown below:

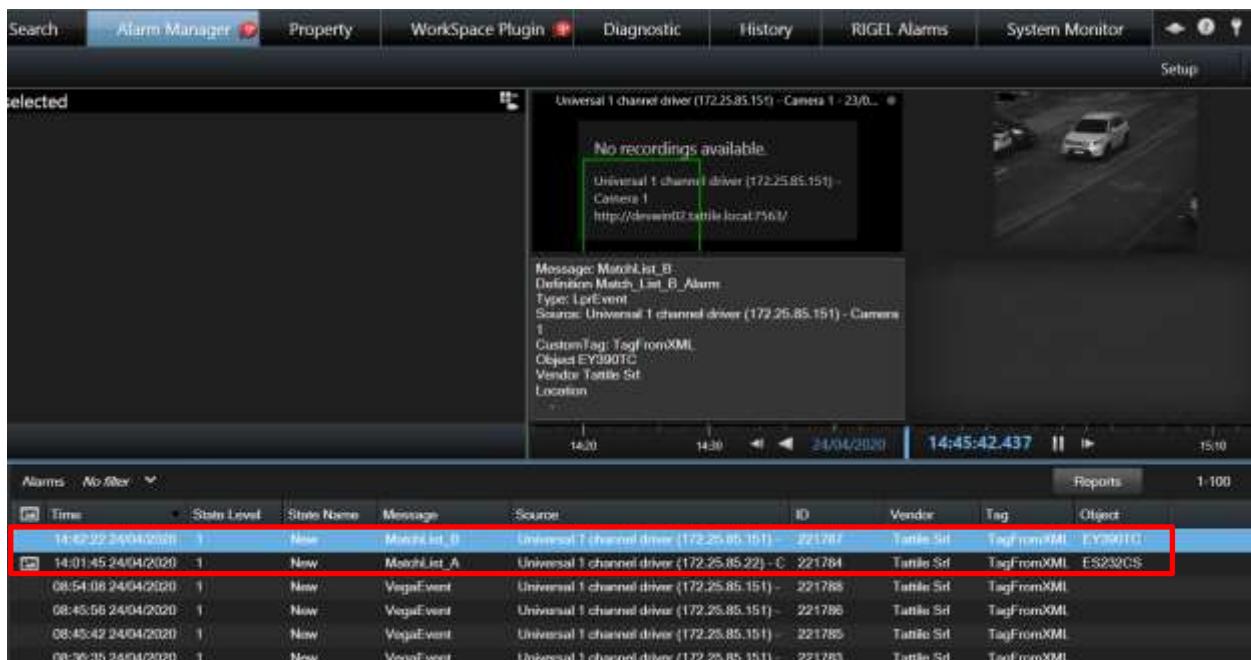


Figure 10-Alarm Manager

Alarm manager Plugin is a plugin Provided in XProtect Smart client. The main data reported in the plugin are described by the table below:

Element	Description
Time	Event Date and time
Message	Event Name
Source	Name of the camera
Vendor	Vendor oh the camera
Tag	Format of event received
Object	Contains metadata that for the events: “MatchList_A” or “MatchList_B”, are initialized by the licence plate number that match with “Checklist A” or “Checklist B” loaded in Camera.

2.4 Diagnostic Plugin

Diagnostic Plugin show all Diagnostic metadata, generated by the diagnostic process, related to status of the camera's sensor.

The Diagnostic Plugin is shown below:

From	To	Hidden Column												
Camera Name	Status	Date/Time	Latitude	Crypto	Gps	Humidity	Temperature	Plate Reader	Process	Secure Digital	Tatext			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			
Universal 1 cha..	DIAG_WARNING	13/10/2019 19:...	+0.0000000	OK	WARNING	OK	OK	OK	OK	OK	OK			

Figure 11 - Diagnostic tab

Information about the device list table is reported in Table 8.

Element	Description
From	Filter elements by date/time
To	Filter elements by date/time
Camera Name	Device name.
Date/Time	Event Time
Date/Time UTC	Time in GMT
Latitude	Geographic coordinate, if GPS is active in Tattile camera
Longitude	Geographic coordinate, if GPS is active in Tattile camera
Status	Device status, as consequence of the other parameters
Consumption	Current consumption status
Context camera	Colour sensor status, only from camera with colour sensor
Crypto	Images encryption keys status
External Illuminator	External Illuminator status
GPS	GPS status, if GPS is active in Tattile camera
Humidity	Status associated to Humidity condition.
Temperature	Status associated to Temperature condition.
OCR camera	Status associated to camera acquisition.
Plate Reader	Status associated to OCR configuration.
Tilt	Status associated to inclination camera.
Time Sync	Status associated to Time synchronization.
Detector	Detector Status, used to advanced diagnostic.
Process	Status associated to Processes in execution, used to advanced diagnostic.
Tatext	TatExt status, used to advanced diagnostic.

Table 7 - List of fields of Diagnostic table

3 Installing the plugin

3.1 System Requirements

Milestone XProtect Smart client and MIPSdk must be installed.

3.2 Installing the Plugin

Following steps are required in order to properly install Vega Plugin software tool:

1. Launch the executable file to start the installation wizard.

The **Select Setup Language** dialog is displayed.

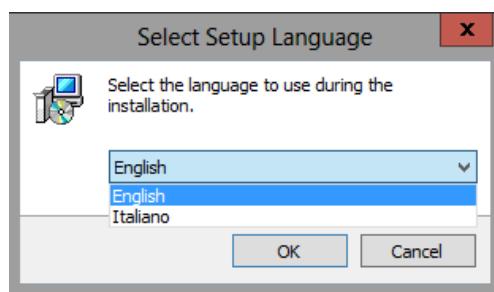


Figure 12 - Choose language

2. From the drop-down menu select the desired language and click **OK**.

The **Select Destination Location** window is displayed.

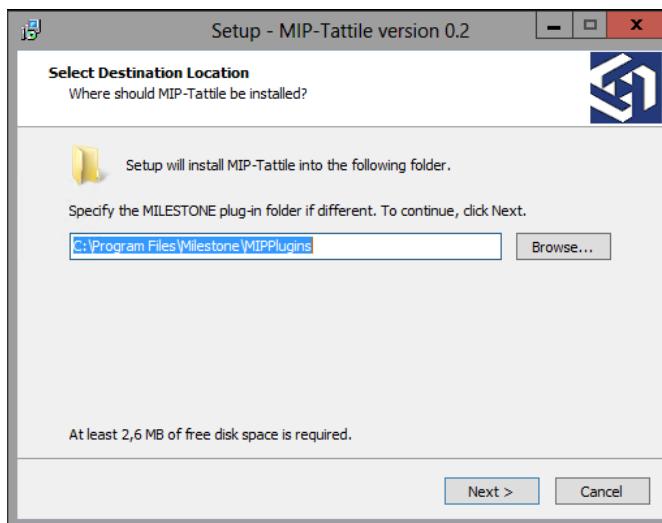


Figure 13 - Choose storage folder

3. Click the **Browse** button to select the installation folder:

- For 64-bit version of smart client, the path is set by default to:

C:\Program Files\Milestone\MIPPlugins

- For 32-bit version of smart client, replace the suggested path with:

C:\ Program Files (x86)\Milestone\MIPPlugins

4. Click **Next** to continue.

If the folder contains older version of the plugin, the following message will be shown. Click “Yes” button to proceed by installation.

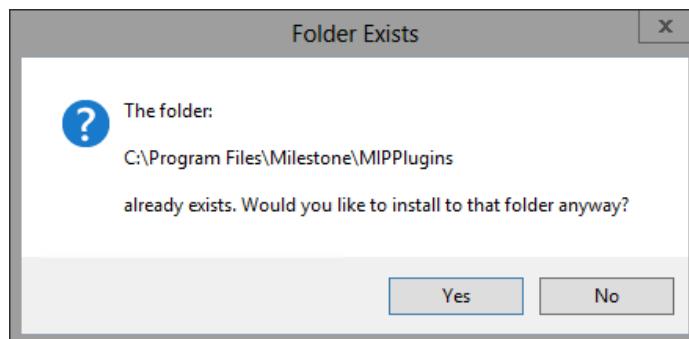


Figure 14 - Confirm override folder

The **Select Components** window is displayed.

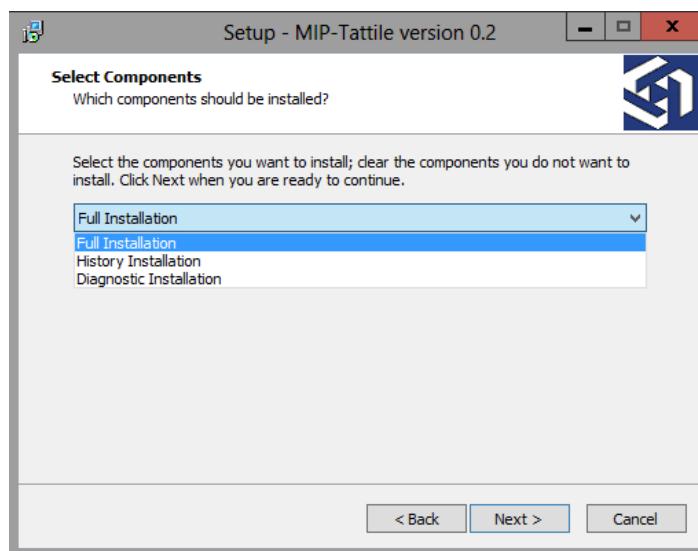


Figure 15 - Select components

5. The setup installs two plugins: “Diagnostic” and “History”.

- To install both plugins, select: “**Full Installation**”
- To install only “History” plugin, select “**History Installation**”
- To install only “Diagnostic” plugin, select “**Diagnostic Installation**”

After selecting the plugin to be installed, click “Next” button to continue.

The **ready to Install** window is displayed.

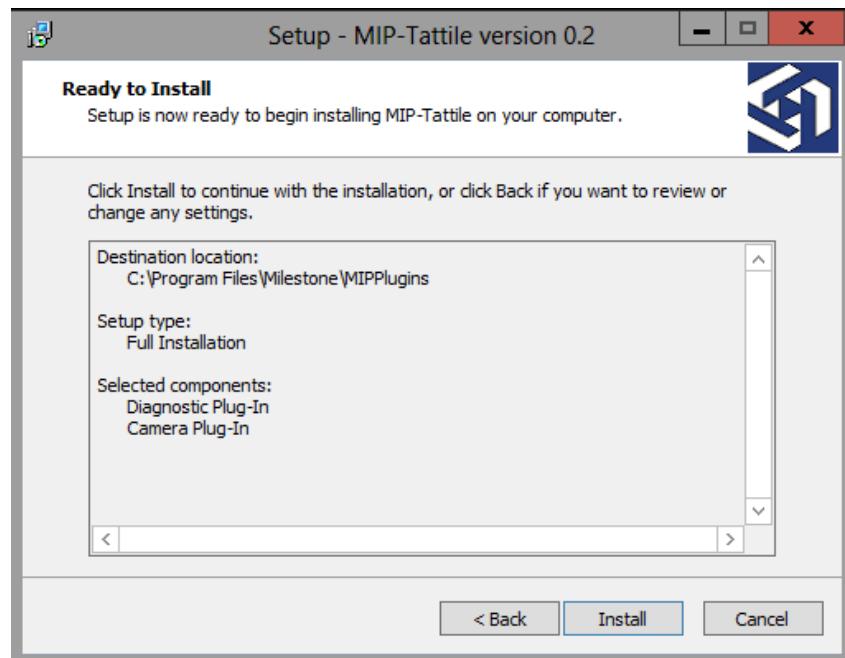


Figure 16 - Setup recap

6. Click **Install** to continue.

A progress bar shows the installation progress.

The final window is displayed.

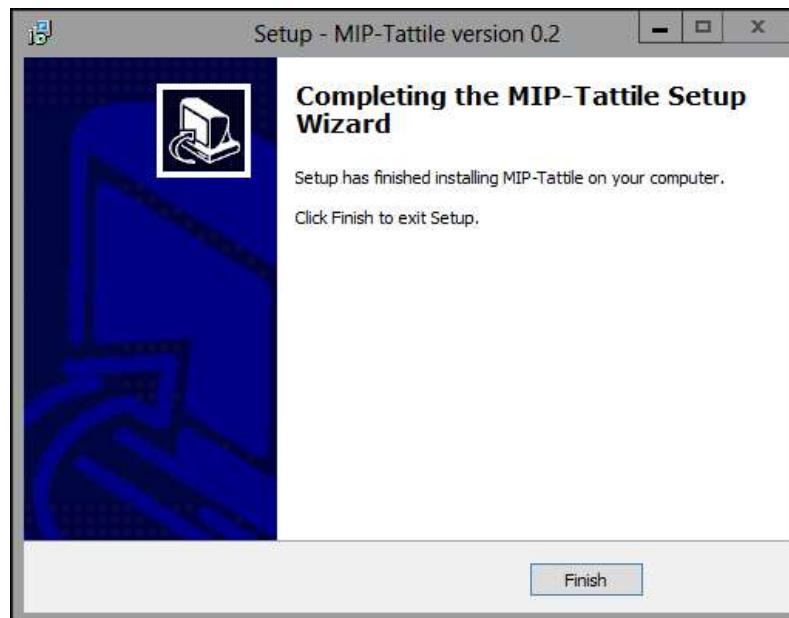


Figure 17 - Setup completed

7. Click **Finish** to end the setup and launch the application.

→ Tattile Plugin is correctly installed on your PC.

3.3 Plugin License

When install the plugin for the first time, need to license the plugin.

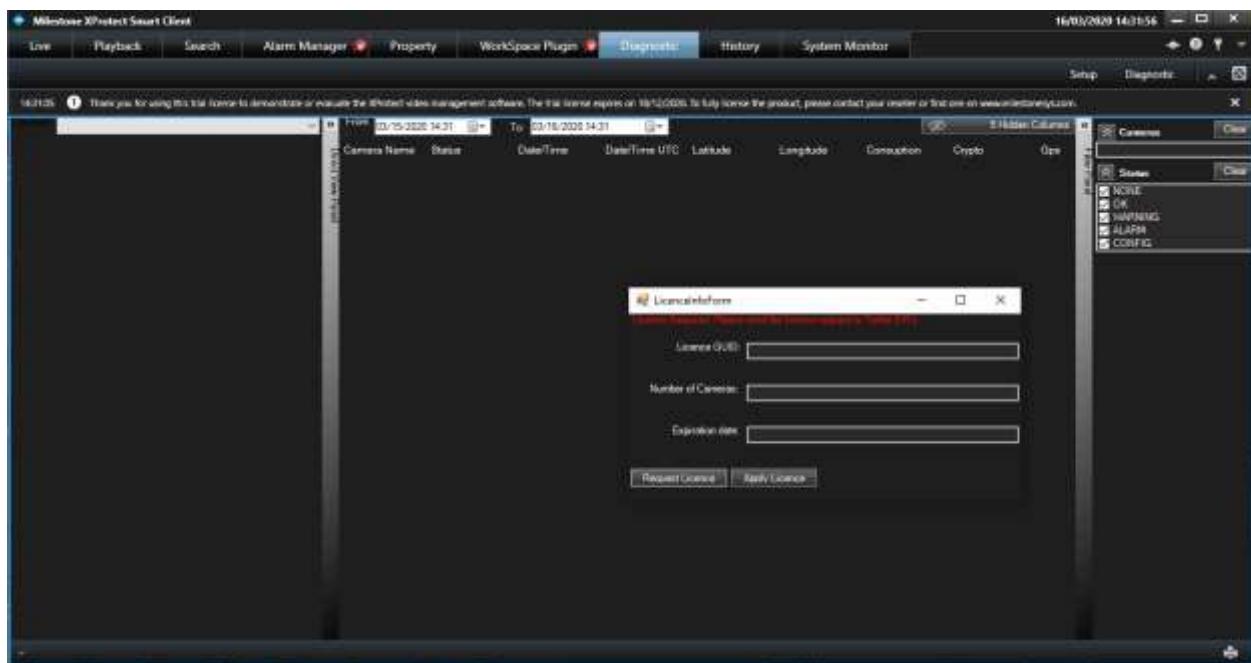


Figure 18- plugin view

A dialogue window will open to manage the license request and when to receive the license to apply it.

The license is supply by Tattile, for request write to FAE_Tattile@tattile.com.

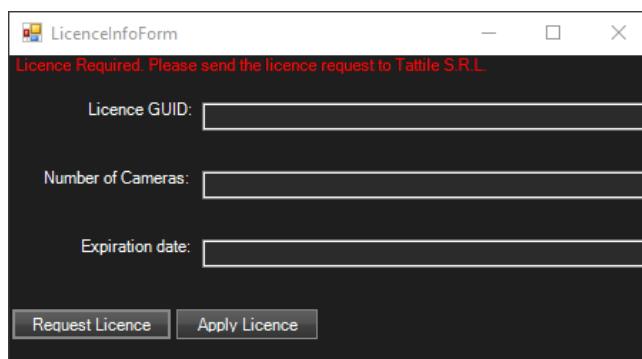


Figure 19 - License dialog

To make a request of License, press button “Request License”, will generate a file “LicenseRequest.dat”, send this file to Tattile support to receive the right License file.

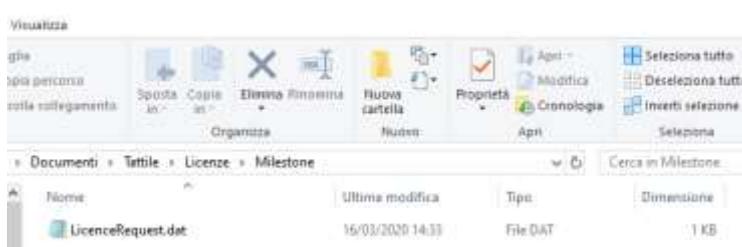


Figure 20 - License request file

When receiving the license “License.dat”, press the button “Apply Licence”, a browse file dialogue will open to select the license file.

When choosing the right file, a confirm box is prompted.

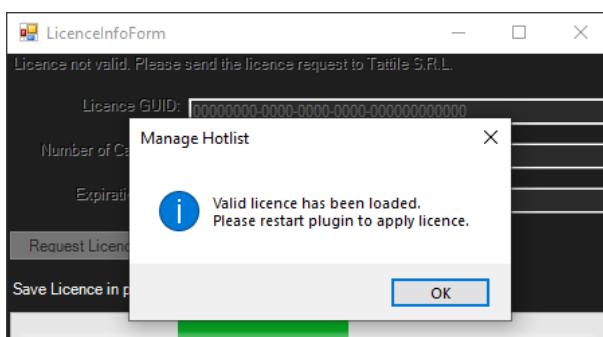


Figure 21 - license confirm

It's possible to see the status of license through the about button of the plugin.

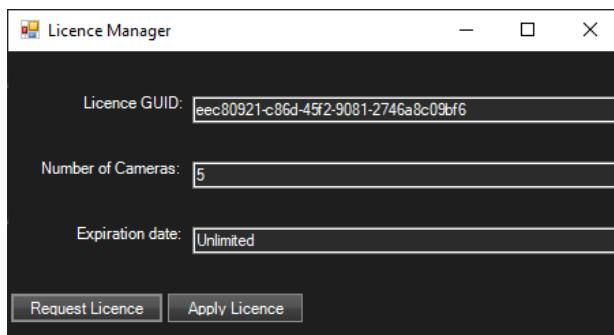


Figure 22 - about license dialog

4 Using the Plugin

4.1 Filtering the lists

The plugin allows for the selection of different filters:

8. Start date/time and end date/time.

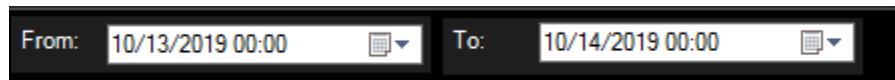
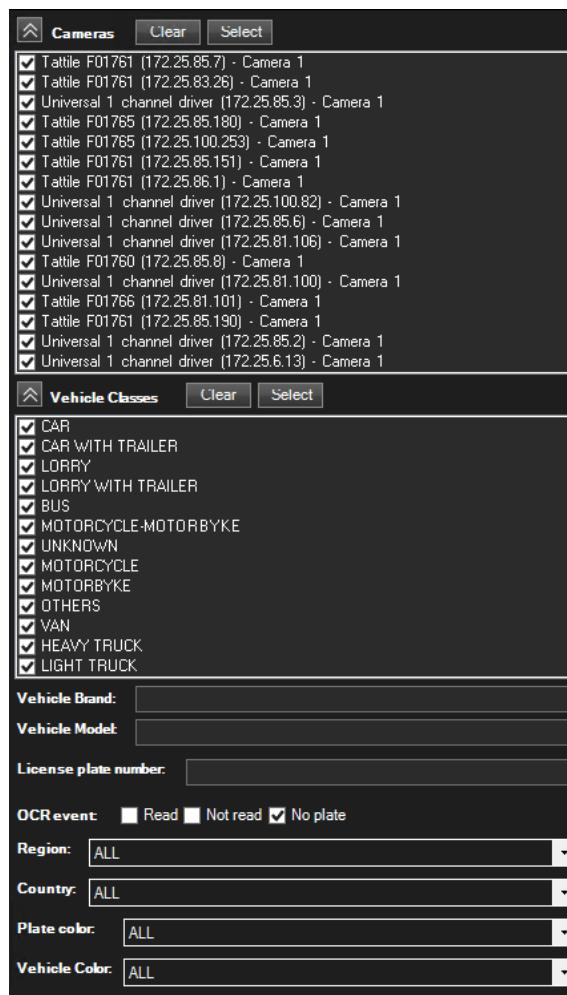


Figure 23 - Field to select date and time

9. Select the events of one or more cameras.

10. Specify text for the fields of events.



Cameras	
<input checked="" type="checkbox"/>	Tattile F01761 (172.25.85.7) - Camera 1
<input checked="" type="checkbox"/>	Tattile F01761 (172.25.83.26) - Camera 1
<input checked="" type="checkbox"/>	Universal 1 channel driver (172.25.85.3) - Camera 1
<input checked="" type="checkbox"/>	Tattile F01785 (172.25.100.253) - Camera 1
<input checked="" type="checkbox"/>	Tattile F01761 (172.25.85.151) - Camera 1
<input checked="" type="checkbox"/>	Tattile F01761 (172.25.86.1) - Camera 1
<input checked="" type="checkbox"/>	Universal 1 channel driver (172.25.100.82) - Camera 1
<input checked="" type="checkbox"/>	Universal 1 channel driver (172.25.85.6) - Camera 1
<input checked="" type="checkbox"/>	Universal 1 channel driver (172.25.81.106) - Camera 1
<input checked="" type="checkbox"/>	Tattile F01760 (172.25.85.8) - Camera 1
<input checked="" type="checkbox"/>	Universal 1 channel driver (172.25.81.100) - Camera 1
<input checked="" type="checkbox"/>	Tattile F01766 (172.25.81.101) - Camera 1
<input checked="" type="checkbox"/>	Tattile F01761 (172.25.85.190) - Camera 1
<input checked="" type="checkbox"/>	Universal 1 channel driver (172.25.85.2) - Camera 1
<input checked="" type="checkbox"/>	Universal 1 channel driver (172.25.61.3) - Camera 1

Vehicle Classes	
<input checked="" type="checkbox"/>	CAR
<input checked="" type="checkbox"/>	CAR WITH TRAILER
<input checked="" type="checkbox"/>	LORRY
<input checked="" type="checkbox"/>	LORRY WITH TRAILER
<input checked="" type="checkbox"/>	BUS
<input checked="" type="checkbox"/>	MOTORCYCLE-MOTORBYKE
<input checked="" type="checkbox"/>	UNKNOWN
<input checked="" type="checkbox"/>	MOTORCYCLE
<input checked="" type="checkbox"/>	MOTORBYKE
<input checked="" type="checkbox"/>	OTHERS
<input checked="" type="checkbox"/>	VAN
<input checked="" type="checkbox"/>	HEAVY TRUCK
<input checked="" type="checkbox"/>	LIGHT TRUCK

Vehicle Brand:	<input type="text"/>
Vehicle Model:	<input type="text"/>
License plate number:	<input type="text"/>
OCR event:	<input type="checkbox"/> Read <input type="checkbox"/> Not read <input checked="" type="checkbox"/> No plate
Region:	<input type="text" value="ALL"/>
Country:	<input type="text" value="ALL"/>
Plate color:	<input type="text" value="ALL"/>
Vehicle Color:	<input type="text" value="ALL"/>

Figure 24 - list of fields to filter results

4.2 Add Column to list

This function allows the user to select the column visible in the list.

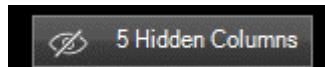


Figure 25 - button to choose columns

11. By clicking on the button, a dialog window opens, showing all the possible filters to be chosen.

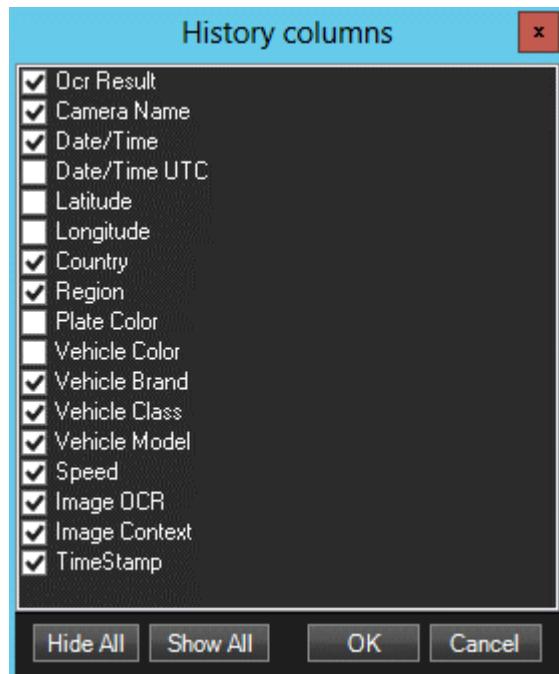


Figure 26 - list of columns

Button	Description
Hide All	All filters are added, thus avoiding event visualization.
Show All	All filters are selected, so that all the fields are shown
OK	Save the selection and close the window.
Cancel	Delete the changes and close the window.

Table 8 - List of button column window

4.3 Double click row (only for History)

This function allows the user to open a window with all the details of events.

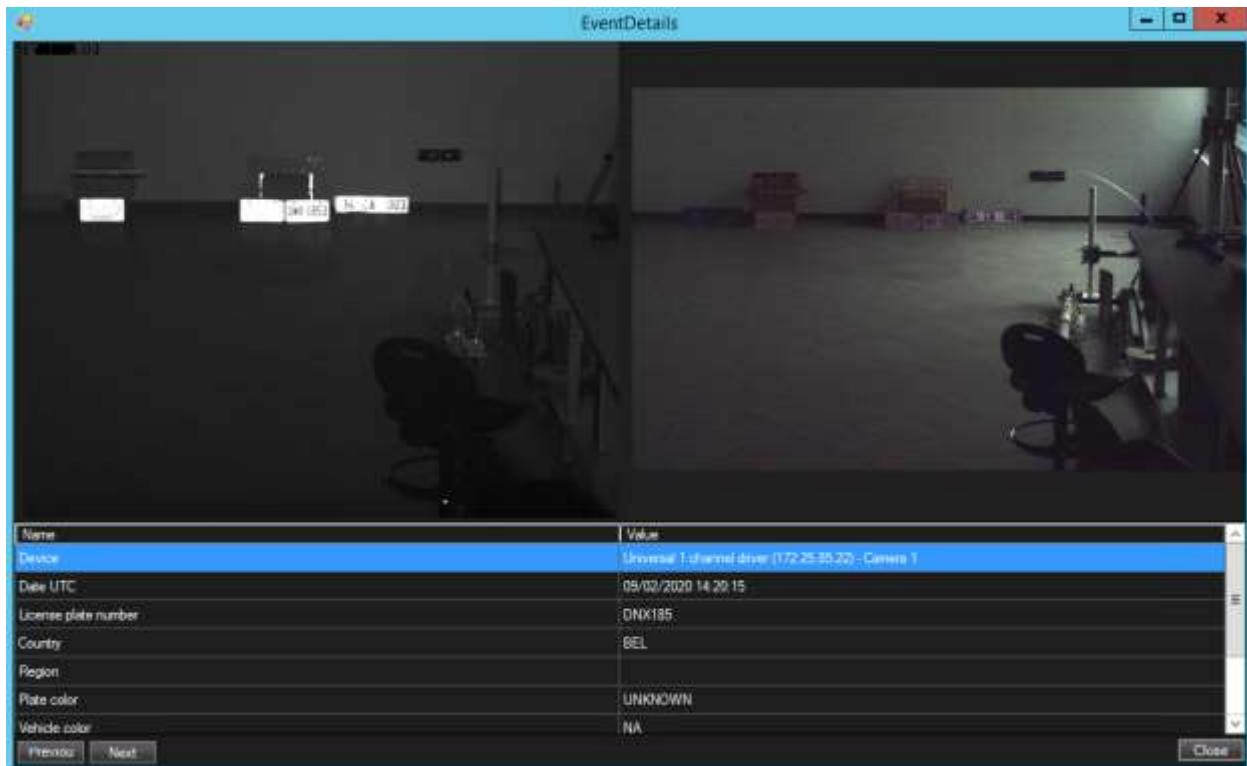


Figure 27 - History detail window

Button	Description
Previous	Navigate to the previous event.
Next	Navigate to the next event.
Close	Close the window.

Table 9 - List of button details window

5 Configuring camera to send metadata

Information about how to connect and setup camera and server are reported in **Vega User Manual**.

The purpose of this section is to state the procedure required to configure the camera in order to send events to **Milestone XProtect Management Client**.

The functionality is available from firmware version 12.45 released in October 2019.

5.1 Configuring Vega Camera to send LPR metadata

In order to configure Vega camera to send LPR metadata is necessary follow the next steps:

1. Open the Vega Web Page
2. In the main page select “Event/Action”



Figure 28-Main page Vega camera

3. In the matrix “Event/Action” select the elements:

- TCP Message on OCR Read
- TCP Message on OCR Not Read
- TCP Message on No Plate

Plate Reader		System											
		Actions / Events	Send Image FTP	Save DB FTP	Pulse Out	Com485 Message	TCP Message	Template Message	Send Image FTP 2	Save DB FTP 2	TCP Message 2	SD Saving	Save DB SD
Ocr Read													
Ocr Not Read													
Ocr No Plate													
Match On List A													
No Match On List A													
Match On List B													
No Match On List B													
Start Trigger													
Stop Trigger													
System Diagnostic													
Changed Input													

Figure 29 - Vega camera Event Action web page

In the page of TCP Message configuration set the following fields:

Element	Description
Enable	Enable the message
Message format	Type of message, select MILESTONE_PLUGIN for Tattile Vega Plugin.
Server Name / IP	The IP Address of Milestone XProtect Management Client
Server Port	The TCP/IP port, set to 9090
Event Name	The name of event registered in XProtect Management Client
Conditional execution	Set condition to send the event, set Always

Table 10 - List of elements TCP Message on OCR Read web page


VEGA - Automatic Number Plate Reader
 

Plate Reader

System

TCP Message on Ocr Read

Enable	<input type="button" value="YES ▾"/>
Message format	<input type="button" value="MILESTONE_PLUGIN ▾"/>
Jpeg Quality	<input type="text" value="75"/>
Crop Image(*)	<input type="button" value="PLATE ▾"/>
Plot Box	<input type="button" value="NO ▾"/>
Context Jpeg Quality	<input type="text" value="75"/>
Resize Ctx Image	<input type="button" value="DISABLED ▾"/>
Ctx Plot Box	<input type="button" value="NO ▾"/>
Pixelate Region(*)	<input type="button" value="NO ▾"/>
Text Position	<input type="button" value="TOP_LEFT ▾"/>
Text Dimension	<input type="button" value="1X ▾"/>
Text Options	<input type="button" value="NONE ▾"/>
Text Value	<input type="text" value="%PLATE%DATE%TIME"/> HELP
Server name/IP	<input type="text" value="172.25.6.12"/>
Server Port	<input type="text" value="9090"/>
Event Name	<input type="text" value="VegaEvent"/>
Conditional execution	<input type="button" value="ALWAYS ▾"/>
Buffering on SD	<input type="button" value="NO ▾"/>

(*) only for OCR Read or Not Read, pixelate ctx image region

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www.tattile.com

Figure 30 - Tattile camera OCR Read web page

5.2 Configuring Vega Camera to send Diagnostic metadata

In order to configure Vega camera to send Diagnostic metadata is necessary follow the next steps:

1. Open the Vega Web Page
2. In the main page select "Event/Action"



Figure 31-Main page Vega camera

3. In the matrix "Event/Action" select the element: TCP Message/System Diagnostic

Plate Reader		System											
	Action / Events	Send Image FTP	Save DB FTP	Pulse Out	Com485 Message	TCP Message	Template Message	Send Image FTP 2	Save DB FTP 2	TCP Message 2	SD Saving	Save DB SD	
Ocr Read	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Ocr Not Read	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ocr No Plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Match On List A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
No Match On List A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Match On List B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
No Match On List B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Start Trigger			<input type="checkbox"/>										
Stop Trigger			<input type="checkbox"/>										
System Diagnostic		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
Changed Input		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>			

Figure 32- Vega camera Event Action web page

4. In the page of TCP Message configuration set the following fields:

Element	Description
Enable	Enable the message
Message format	Type of message, select MILESTONE_PLUGIN for Tattile Vega Plugin.
Server Name / IP	The IP Address of Milestone XProtect Management Client
Server Port	The TCP/IP port, set to 9090
Event Name	The name of event registered in XProtect Management Client
Conditional execution	Set condition to send the event, set Always

Table 11 - List of elements TCP Message on OCR Read web page

TCP Message on System Diagnostic

Plate Reader	System
	Enable: YES Message format: MILESTONE_PLUGIN Server name/IP: 172.25.6.12 Server Port: 9090 Event Name: VegaEvent Conditional execution: ALWAYS Buffering on SD: NO

(*): only for OCR Read or Not Read, pixelate ctx image region

Reset | Apply

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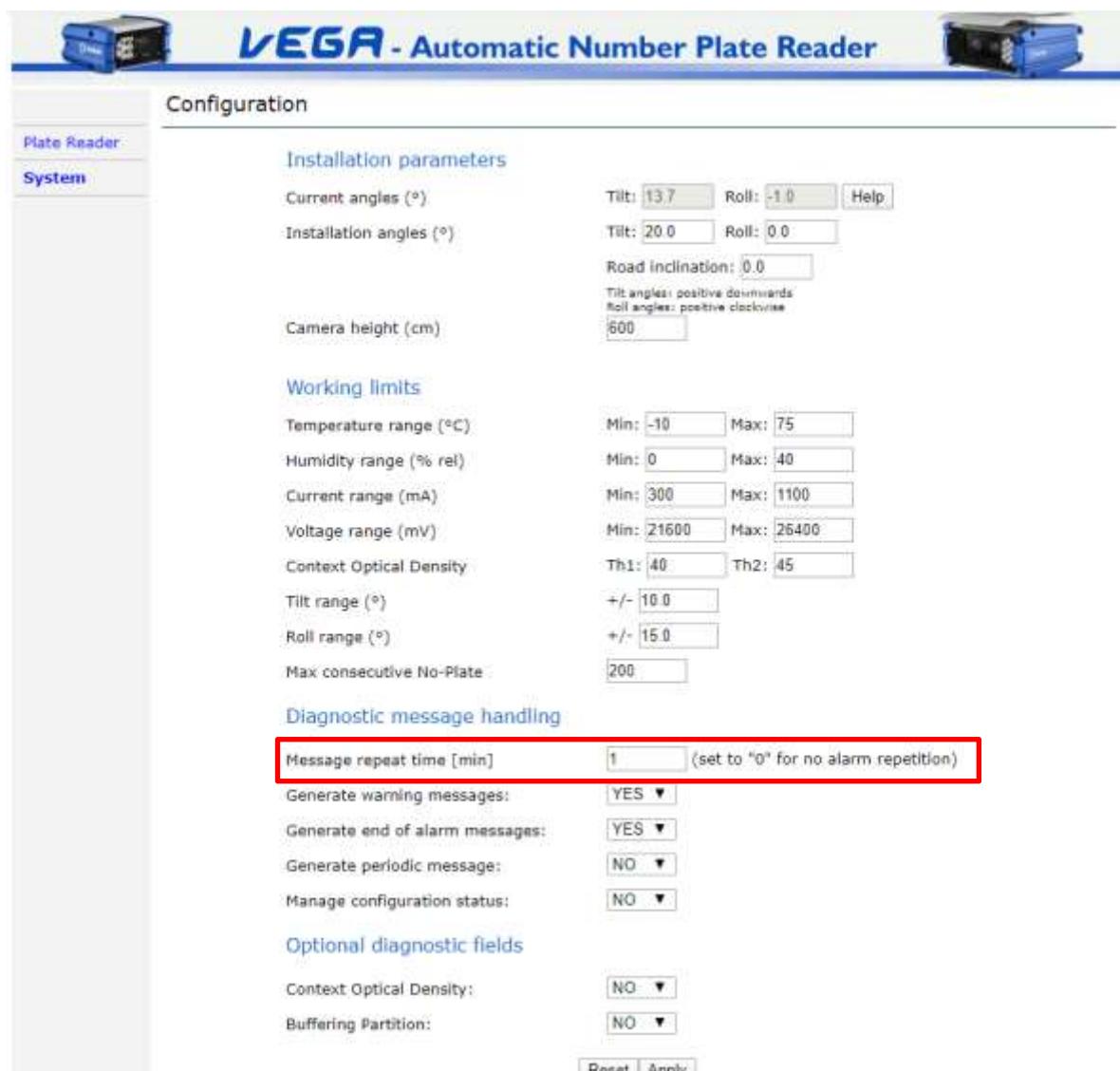
Figure 33-Vega camera System Diagnostic web page

5. In order to send Diagnostic metadata each interval time, for example each one minute, navigate to System Vega web page and click Configuration:



Figure 34-System Vega web page

6. The Diagnostic page, enable the user to set a lot of parameters, in which the field “Message repeat time [min]” allow to set the interval time to send diagnostic messages:



VEGA - Automatic Number Plate Reader

Configuration

Plate Reader

System

Installation parameters

Current angles (°) Tilt: 13.7 Roll: -1.0 Help
 Installation angles (°) Tilt: 20.0 Roll: 0.0
 Road inclination: 0.0
 Tilt angle: positive downwards
 Roll angle: positive clockwise
 Camera height (cm) 600

Working limits

Temperature range (°C) Min: -10 Max: 75
 Humidity range (% rel) Min: 0 Max: 40
 Current range (mA) Min: 300 Max: 1100
 Voltage range (mV) Min: 21600 Max: 26400
 Context Optical Density Th1: 40 Th2: 45
 Tilt range (°) +/- 10.0
 Roll range (°) +/- 15.0
 Max consecutive No-Plate 200

Diagnostic message handling

Message repeat time [min] **1** (set to "0" for no alarm repetition)

Generate warning messages: YES
 Generate end of alarm messages: YES
 Generate periodic message: NO
 Manage configuration status: NO

Optional diagnostic fields

Context Optical Density: NO
 Buffering Partition: NO

Reset Apply

Figure 35-Diagnostic Vega web page

5.3 Configuring Vega Camera to send MatchList_A/B metadata

In order to configure Vega camera to send MatchList_A or MatchList_B metadata, when is recognized a licence plate number that match with Checklist A or Checklist B respectively, is necessary follow the next steps:

1. Open the Vega Web Page
2. In the main page select “Event/Action”



Figure 36-Main page Vega camera

3. In the matrix “Event/Action” select the elements:
 - Template Message/Match On List A
 - Template Message/Match On List B

Plate Reader		Actions / Events	Send Image FTP	Save DB FTP	Pulse Out	Com485 Message	TCP Message	Template Message	Send Image FTP 2	Save DB FTP 2	TCP Message 2	SD Saving	Save DB SD
System													
Ocr Read		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Ocr Not Read		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ocr No Plate		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Match On List A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
No Match On List A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Match On List B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No Match On List B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Start Trigger				<input type="checkbox"/>									
Stop Trigger				<input type="checkbox"/>									
System Diagnostic			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>							
Changed Input			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			

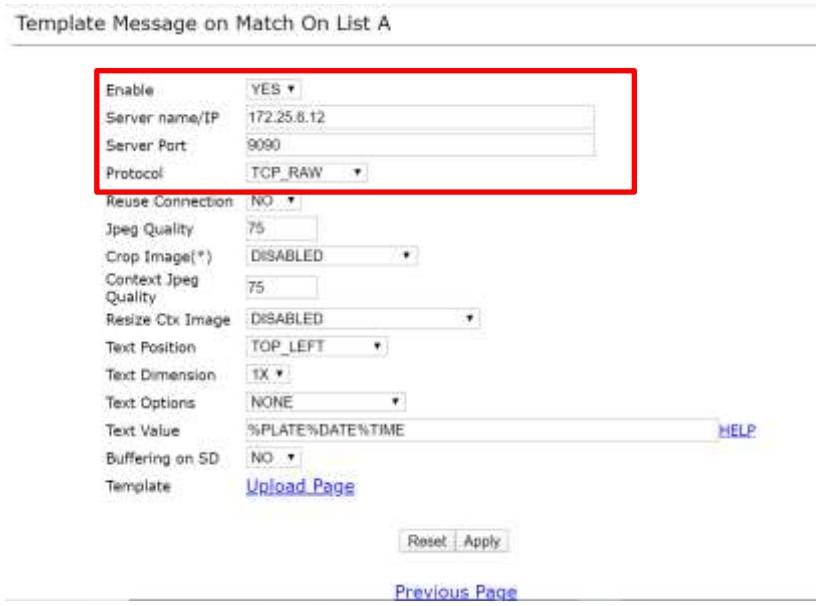
Figure 37- Vega camera Event Action web page

The main fields to be set in the Template Message page are the following:

Element	Description
Enable	Enable the message
Server Name / IP	The IP Address of Milestone XProtect Management Client
Server Port	The TCP/IP port, set to 9090
Protocol	TCP_RAW

Table 12 - List of elements TCP Message on OCR Read web page

Template Message on Match On List A



Enable: YES
 Server name/IP: 172.25.8.12
 Server Port: 9090
 Protocol: TCP_RAW

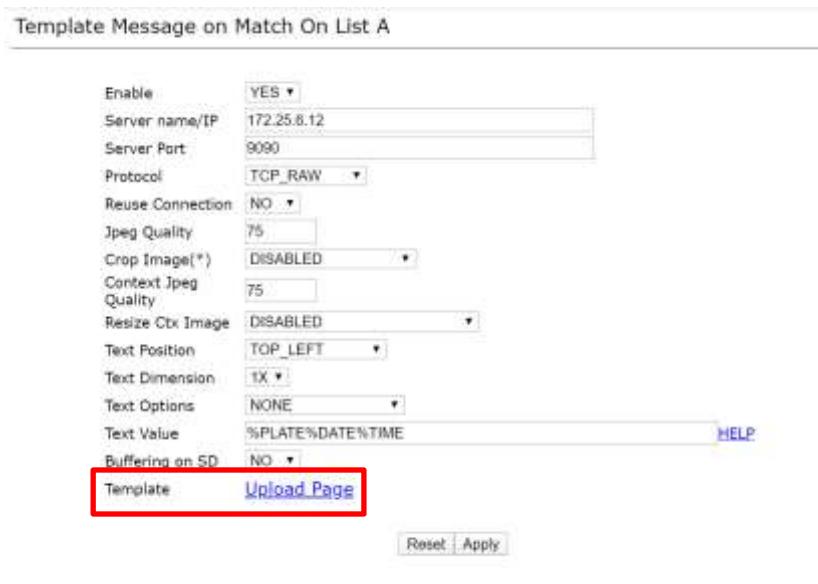
Jpeg Quality: 75
 Crop Image(*): DISABLED
 Context Jpeg Quality: 75
 Resize Ctx Image: DISABLED
 Text Position: TOP_LEFT
 Text Dimension: 1X
 Text Options: NONE
 Text Value: %PLATE%DATE%TIME
 Buffering on SD: NO
 Template: [Upload Page](#)

Reset | Apply

Figure 38-Template Message on Match On List A

- If the template for metadata MatchList_A or MatchList_B is not present, upload it by clicking the "Upload Page" hyperlink:

Template Message on Match On List A



Enable: YES
 Server name/IP: 172.25.8.12
 Server Port: 9090
 Protocol: TCP_RAW
 Reuse Connection: NO
 Jpeg Quality: 75
 Crop Image(*): DISABLED
 Context Jpeg Quality: 75
 Resize Ctx Image: DISABLED
 Text Position: TOP_LEFT
 Text Dimension: 1X
 Text Options: NONE
 Text Value: %PLATE%DATE%TIME
 Buffering on SD: NO
 Template: [Upload Page](#)

Reset | Apply

Figure 39-Template Message on Match On List A

- Upload the template “MatchList_A” or “MatchList_B”, by clicking “Browse...” button

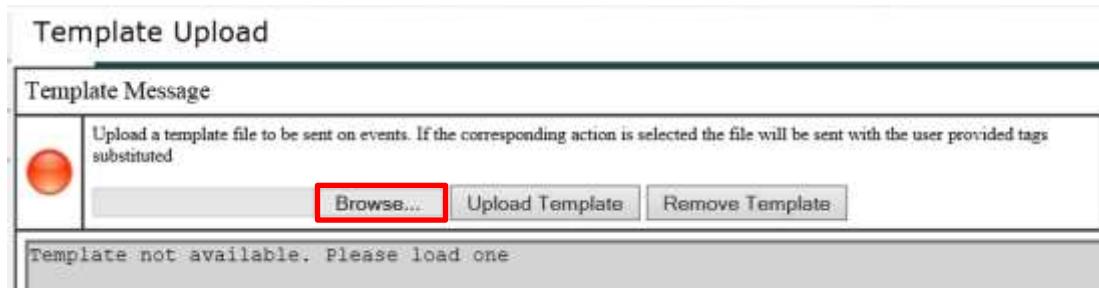


Figure 40-Template Upload web page

- Select the template: “Template_Milestone_MatchListA” or “Template_Milestone_MatchListB” And click “Open” button:

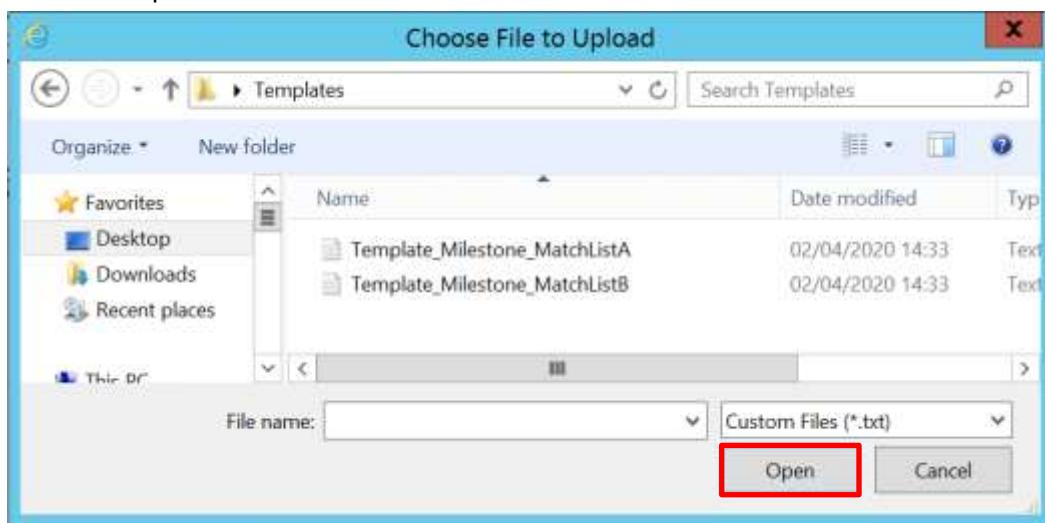


Figure 41-Choose File to upload

- The template is selected but not yet loaded to camera. To be update the template click “Upload Template” button:

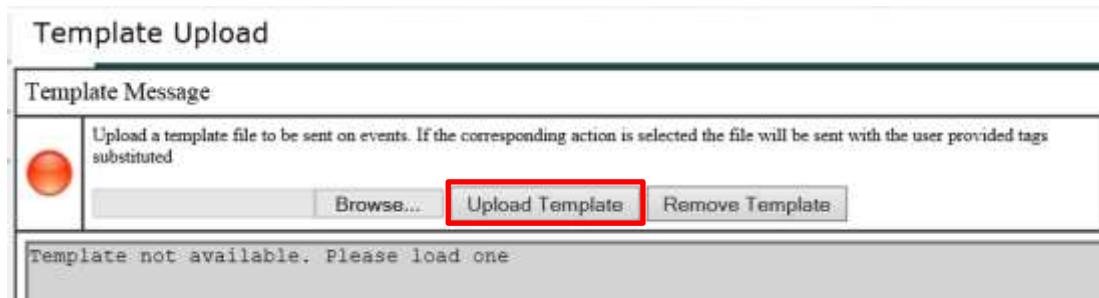


Figure 42-Template Upload web page

8. The message below, advise that the template is now available:

Template is now available

[Previous Page](#)

Figure 43-Advise message page

9. The green led advise the user that the template loaded is valid:

Template Upload

Template Message		
<input type="button" value="Browse..."/> <input type="button" value="Upload Template"/> <input type="button" value="Remove Template"/>	HELP	
<pre><?xml version="1.0" encoding="utf-8"?> <AnalyticsEvent xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:milestone-systems"> <EventHeader> <ID>00000000-0000-0000-0000-000000000000</ID> <Timestamp>\$[YEAR]-\$[MONTH]-\$[DAY]T\$[HOUR]:\$[MIN]:\$[SEC]Z</Timestamp> <Type>IgReEvent</Type> <Message>MatchList_A</Message> <CustomTags>TagFromXML</CustomTags> <Source> <!-- Insert camera IP --> <Name>172.25.85.22</Name> </Source> </EventHeader> <Description>Match on List A</Description> <Location>--</Location> <!-- Overlay data. --> <ObjectLists> <Object> <Name>LicencePlate</Name></pre>		

Figure 44-Template Upload web page

5.3.1 Template MatchList_A

The template MatchList_A is the following:

```

<?xml version="1.0" encoding="utf-8"?>
<AnalyticsEvent xmlns:i="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:milestone-systems">
  <EventHeader>
    <ID>00000000-0000-0000-000000000000</ID>
    <Timestamp>${YEAR}-${MONTH}-${DAY}T${HOUR}:${MIN}:${SEC}Z</Timestamp>
    <Type>LprEvent</Type>
    <Message>MatchList_A</Message>
    <CustomTag>TagFromXML</CustomTag>
    <Source>
      <!-- Insert camera IP -->
      <Name>172.25.85.22</Name>
    </Source>
  </EventHeader>
  <Description>Match on List A</Description>
  <Location>-</Location>

  <!-- Overlay data. -->
  <ObjectList>
    <Object>
      <Name>LicencePlate</Name>
      <Value>${PLATE_STRING}</Value>
      <AlarmTrigger>true</AlarmTrigger>
    </Object>
  </ObjectList>

  <SnapshotList>
    <Snapshot>
      <TimeOffset>0</TimeOffset>
      <Image>${IMAGE_OCR}</Image>
    </Snapshot>
  </SnapshotList>

  <Vendor>
    <Name>Tattile SRL</Name>
    <CustomData>
      <![CDATA[
        <IMAGE_CTX>${IMAGE_CTX}</IMAGE_CTX>
        <EVENT_DESC>${EVENT_DESC}</EVENT_DESC>
        <DATE>${DATE}</DATE>
        <TIME>${TIME}</TIME>
        <UTC_DATE>${UTC_DATE}</UTC_DATE>
        <UTC_TIME>${UTC_TIME}</UTC_TIME>
        <PLATE_STRING>${PLATE_STRING}</PLATE_STRING>
        <PLATE_COUNTRY>${PLATE_COUNTRY}</PLATE_COUNTRY>
        <PLATE_REGION>${PLATE_REGION}</PLATE_REGION>
        <SPEED>${SPEED}</SPEED>
        <CLASS_STRING>${CLASS_STRING}</CLASS_STRING>
        <SITE_ADDRESS>${SITE_ADDRESS}</SITE_ADDRESS>
        <LATITUDE_STRING>${LATITUDE_STRING}</LATITUDE_STRING>
        <LONGITUDE_STRING>${LONGITUDE_STRING}</LONGITUDE_STRING>
        <PLATE_COLOR_STRING>${PLATE_COLOR_STRING}</PLATE_COLOR_STRING>
        <VEHICLE_COLOR_STRING>${VEHICLE_COLOR_STRING}</VEHICLE_COLOR_STRING>
        <VEHICLE_BRAND_STRING>${VEHICLE_BRAND_STRING}</VEHICLE_BRAND_STRING>
        <VEHICLE_MODEL_STRING>${VEHICLE_MODEL_STRING}</VEHICLE_MODEL_STRING>
        <DIAG_STATUS>${DIAG_STATUS}</DIAG_STATUS>
        <DIAG_STRING>${DIAG_STRING}</DIAG_STRING>
      ]]>
    </CustomData>
  </Vendor>
</AnalyticsEvent>

```

5.3.2 Template MatchList_B

The template MatchList_B is the following:

```

<?xml version="1.0" encoding="utf-8"?>
<AnalyticsEvent xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:milestone-
systems">
    <EventHeader>
        <ID>00000000-0000-0000-0000-000000000000</ID>
        <Timestamp>${YEAR}-${MONTH}-${DAY}T${HOUR}:${MIN}:${SEC}Z</Timestamp>
        <Type>LprEvent</Type>
        <Message>MatchList_B</Message>
        <CustomTag>TagFromXML</CustomTag>
        <Source>
            <!-- Insert camera IP -->
            <Name>172.25.85.22</Name>
        </Source>
    </EventHeader>
    <Description>Match on List B</Description>
    <Location>-</Location>

    <!-- Overlay data. -->
    <ObjectList>
        <Object>
            <Name>LicencePlate</Name>
            <Value>${PLATE_STRING}</Value>
            <AlarmTrigger>true</AlarmTrigger>
        </Object>
    </ObjectList>

    <SnapshotList>
        <Snapshot>
            <TimeOffset>0</TimeOffset>
            <Image>${IMAGE_OCR}</Image>
        </Snapshot>
    </SnapshotList>

    <Vendor>
        <Name>Tattile SRL</Name>
        <CustomData>
            <![CDATA[
                <IMAGE_CTX>${IMAGE_CTX}</IMAGE_CTX>
                <EVENT_DESC>${EVENT_DESC}</EVENT_DESC>
                <DATE>${DATE}</DATE>
                <TIME>${TIME}</TIME>
                <UTC_DATE>${UTC_DATE}</UTC_DATE>
                <UTC_TIME>${UTC_TIME}</UTC_TIME>
                <PLATE_STRING>${PLATE_STRING}</PLATE_STRING>
                <PLATE_COUNTRY>${PLATE_COUNTRY}</PLATE_COUNTRY>
                <PLATE_REGION>${PLATE_REGION}</PLATE_REGION>
                <SPEED>${SPEED}</SPEED>
                <CLASS_STRING>${CLASS_STRING}</CLASS_STRING>
                <SITE_ADDRESS>${SITE_ADDRESS}</SITE_ADDRESS>
                <LATITUDE_STRING>${LATITUDE_STRING}</LATITUDE_STRING>
                <LONGITUDE_STRING>${LONGITUDE_STRING}</LONGITUDE_STRING>
                <PLATE_COLOR_STRING>${PLATE_COLOR_STRING}</PLATE_COLOR_STRING>
                <VEHICLE_COLOR_STRING>${VEHICLE_COLOR_STRING}</VEHICLE_COLOR_STRING>
                <VEHICLE_BRAND_STRING>${VEHICLE_BRAND_STRING}</VEHICLE_BRAND_STRING>
                <VEHICLE_MODEL_STRING>${VEHICLE_MODEL_STRING}</VEHICLE_MODEL_STRING>
                <DIAG_STATUS>${DIAG_STATUS}</DIAG_STATUS>
                <DIAG_STRING>${DIAG_STRING}</DIAG_STRING>
            ]]>
        </CustomData>
    </Vendor>
</AnalyticsEvent>

```

6 Configuring XProtect Management Client

Open the XProtect Management Client and authenticate to the system.

6.1 Adding Vega cameras to Milestone VMS

Create a hardware object linked to a generic “Universal Driver” (channel 1):

- In the window “Site Navigation”, click the label “Servers” and select the label “Recording Servers”.
- Right-click to the name of the server choose and select the menu item “Add Hardware”

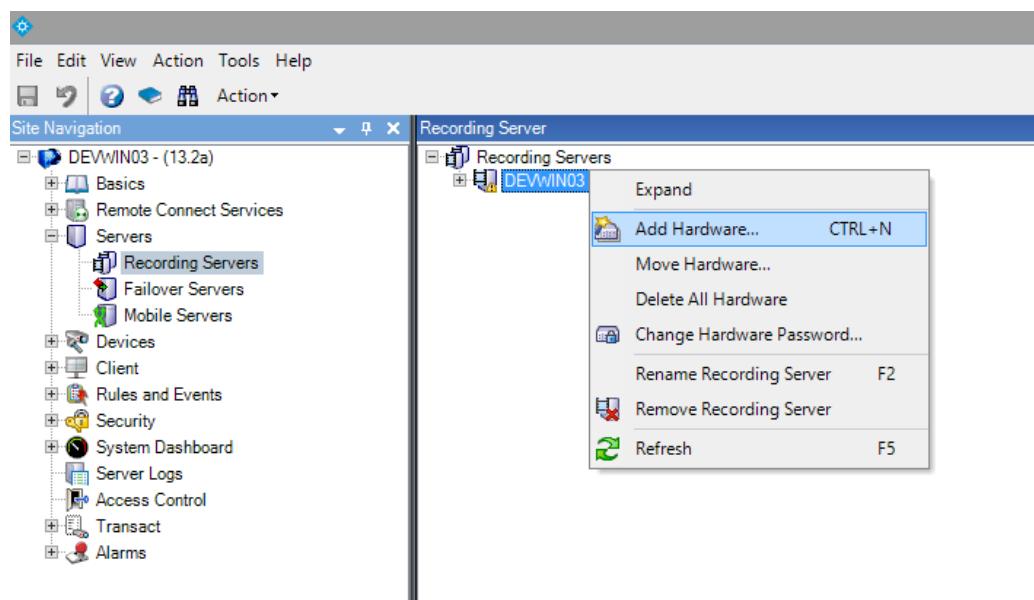


Figure 45 - Milestone XProtect Management “Recording Server”

Now the system shows a wizard to configure a new hardware, follow step by step the instructions:

- Select the hardware detection method “manual”

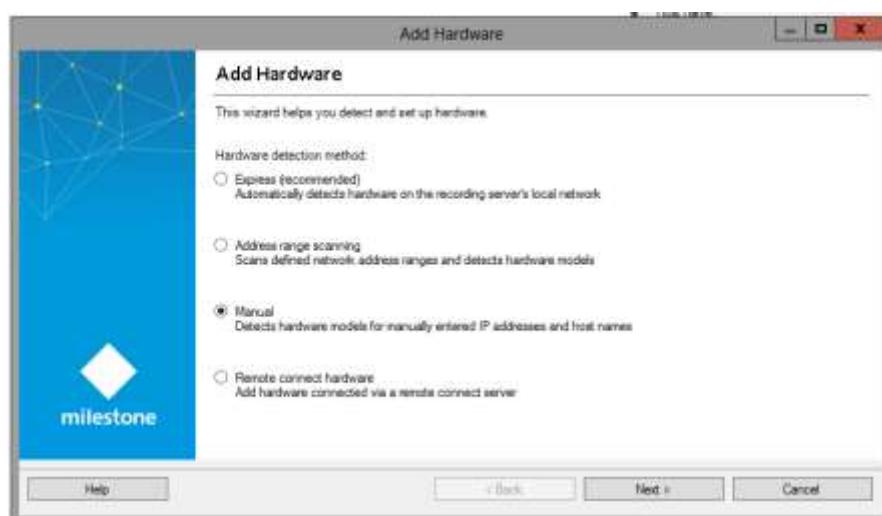


Figure 46 - Milestone XProtect Management Wizard detection step

- In the authentication step, keep the following setting and click on "Next":

Element	Description
User Name	"admin"
Password	"admin"

Table 13 - Authentication

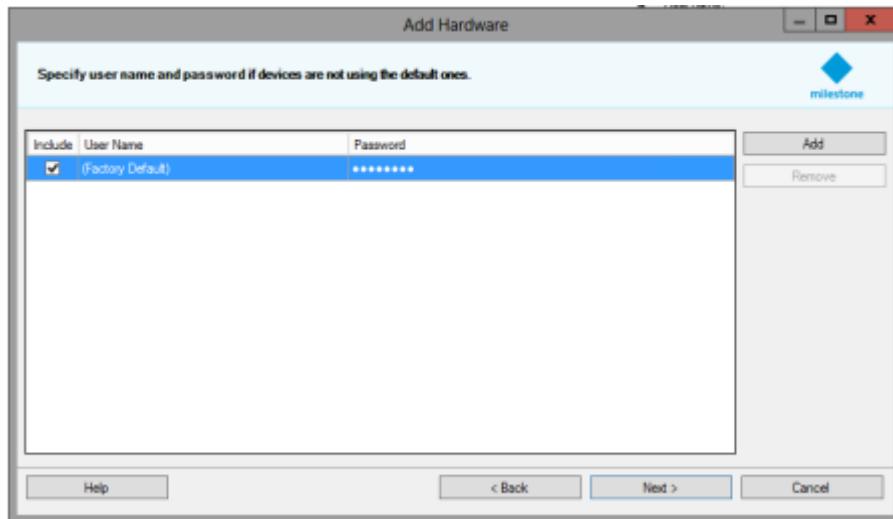


Figure 47 - Milestone XProtect Management Wizard authentication step

- In the driver step, keep default settings and click on "Next":

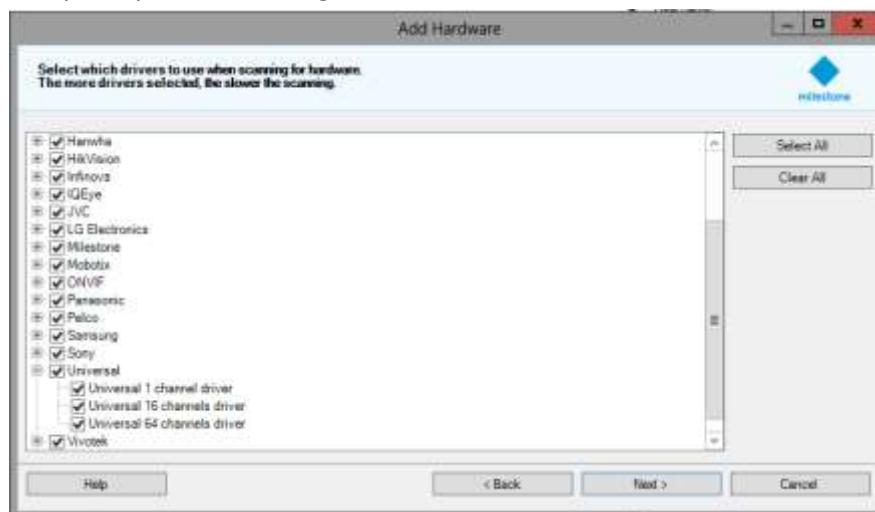


Figure 48 - Milestone XProtect Management Wizard driver step

- In the information step, set the following data and click next to try the connection:

Element	Description
Address	IP Address of Tattile camera
Port	Set to 80.
Hardware model	Set to "Universal 1 channel driver"

Table 14 - driver fields

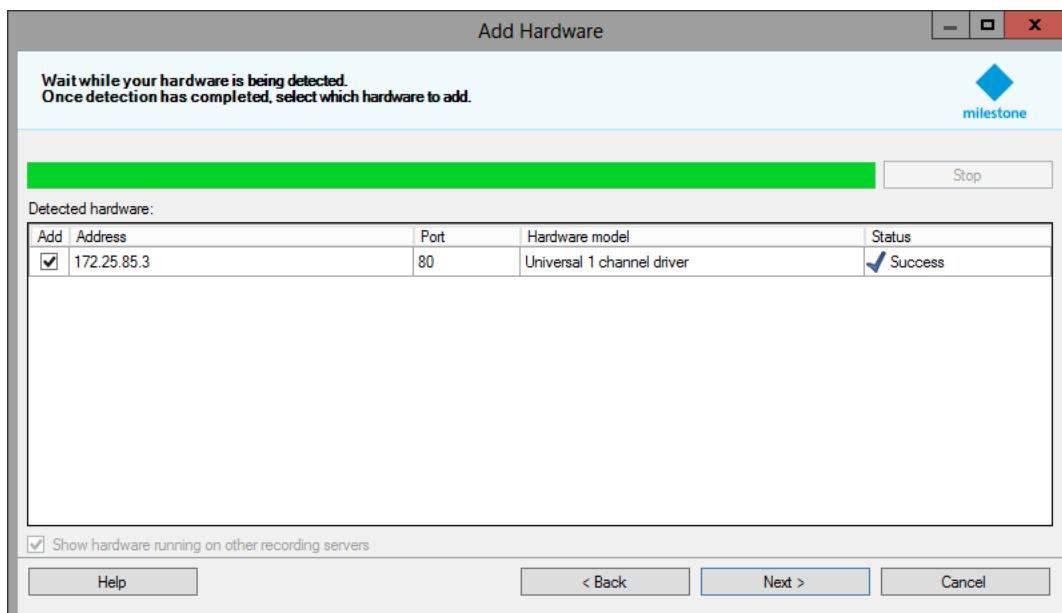


Figure 49 - Milestone XProtect Management Wizard information step

- In the template step, select the “[Hardware model]([Address])” in the Hardware name

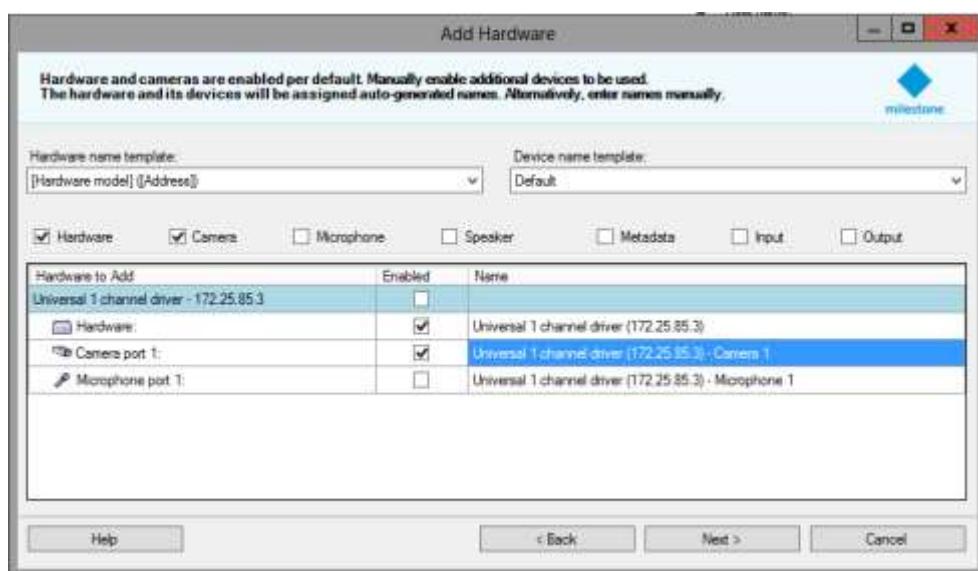


Figure 50 - Milestone XProtect Management Wizard template step

- In the group step, select the group for the camera “Default camera group”

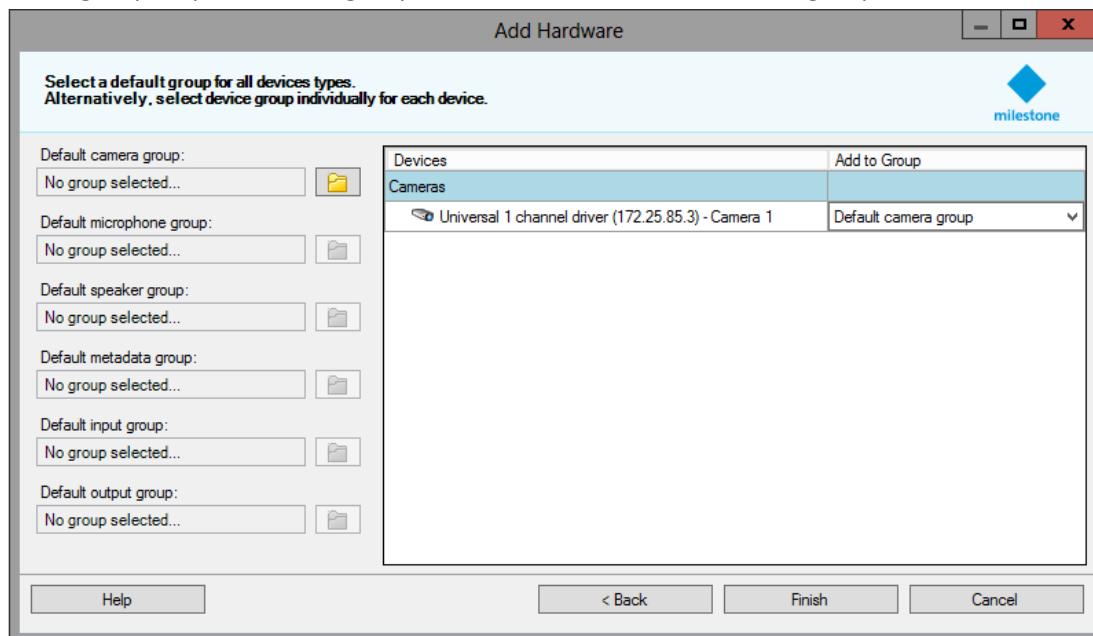


Figure 51 - Milestone XProtect Management Wizard group step

At the end of the wizard, the camera is visible in the list of recording servers.

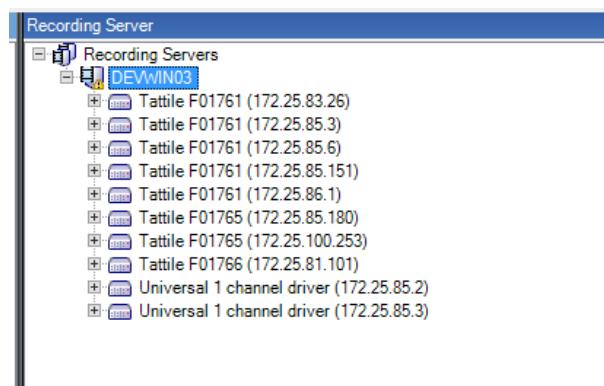


Figure 52 - Recording server List

6.2 Configuring Milestone Analytics Events

Tattile's Vega plugin is based on Milestone Analytics Event consequently, is necessary enable Analytics Events in Milestone XProtect Management Client, following the next steps:

10. Select the menu "Tools" and the label "Options".

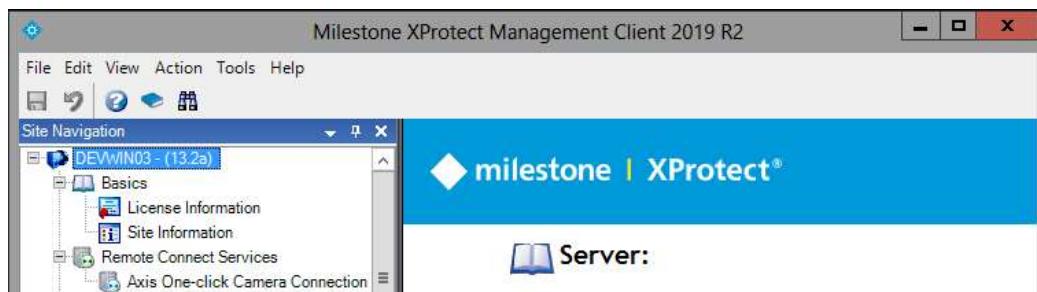


Figure 53 - Milestone XProtect Management Client menu

11. Select the tab "Analytics Events" and set the following fields:

Element	Description
Enable	Enable the server upon receipt of the Analytics events
Port	Set the port to 9090. This is the same port that must be set in the camera configuration, see chapter 5.

Table 15 - List of elements Analytics Events on option window

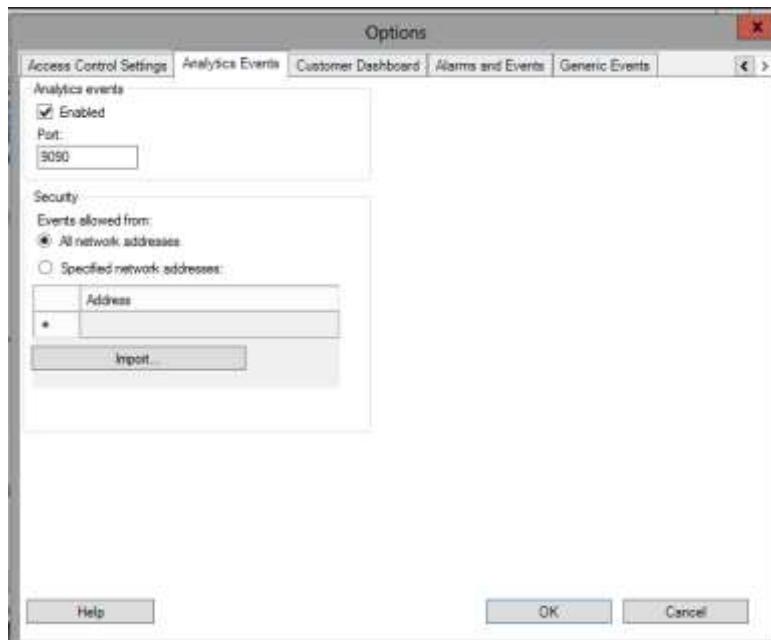


Figure 54 - Milestone XProtect Management Option window

6.3 Adding VegaEvent

LPR and **Diagnostic** metadata sent by Vega Camera, are both “**Analytics Event**” of type “**VegaEvent**”.

In order to receive in XProtect Management Client the “VegaEvent”, is necessary create a new “Analytics Events” named “VegaEvent” following the next steps:

- In the window “Site Navigation”, click the label “Rules and Events” and right click to the sub-element “Analytics Events”, choose “Add New” menu item.
- In the window “Properties” insert the name “VegaEvent” and save.

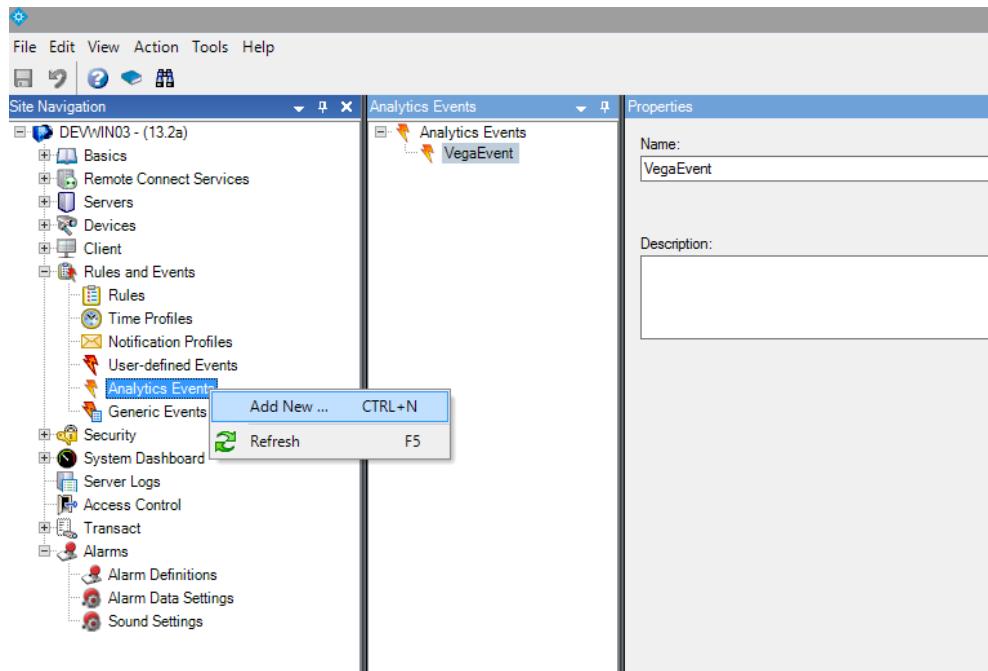


Figure 55 - Milestone XProtect Management “Analytics Events”

6.4 Adding Vega alarm

In order to send **LPR** and **Diagnostic** metadata from the server XProtect Management Client (in which are archived) to the client XProtect Smart Client, is necessary adding an alarm named “Vega alarm” in the XProtect Management Client as described below:

- In the window “Site Navigation”, click the label “Alarms” and right click to the sub-element “Alarm Definition”, choose “Add New” menu item.

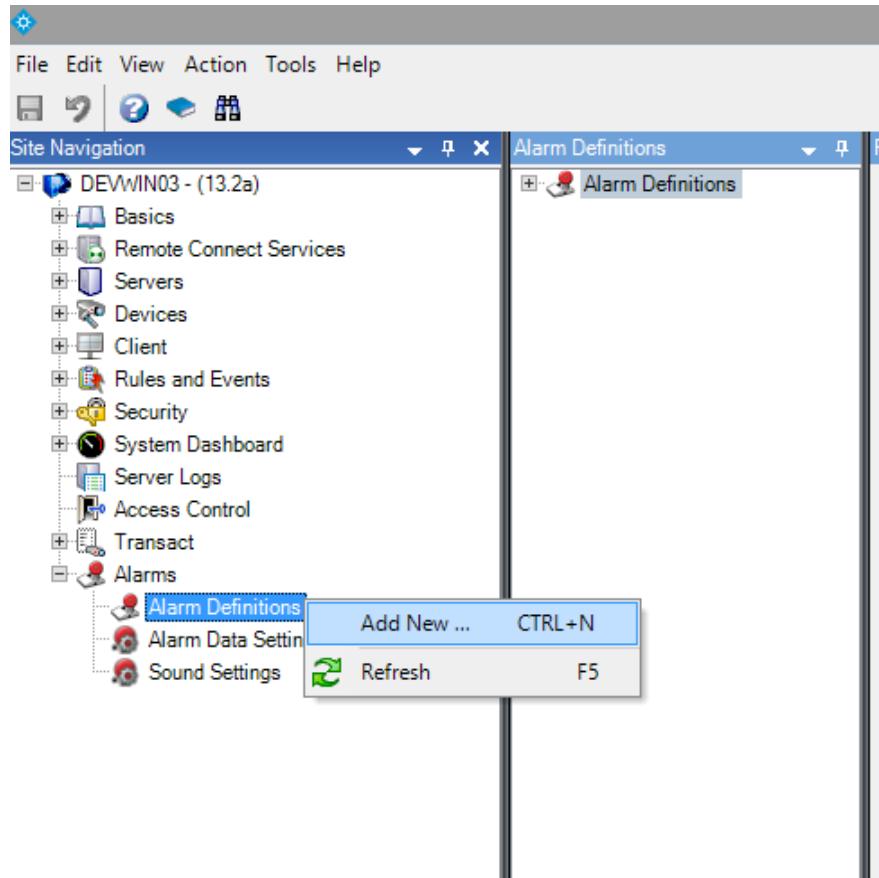


Figure 56 - Milestone XProtect Management “Alarms”

- Compile the new alarm:

Element	Description
Enable	Checked
Name	Set “Vega alarm”
Triggering event	Choose “Analytics Events” and “Vega Events”
Source	Choose “Universal 1 channel driver”, see chapter 6.1
Activation period	Choose “Time profile” and “always”
Operator action required	Choose “1 minute” for “Time Init”
Related Camera	Choose “Universal 1 channel driver”, see chapter 6.1
Initial alarm priority	Choose “High”
Alarm assignable by Administrators	Enable

Table 16 - Alarm fields

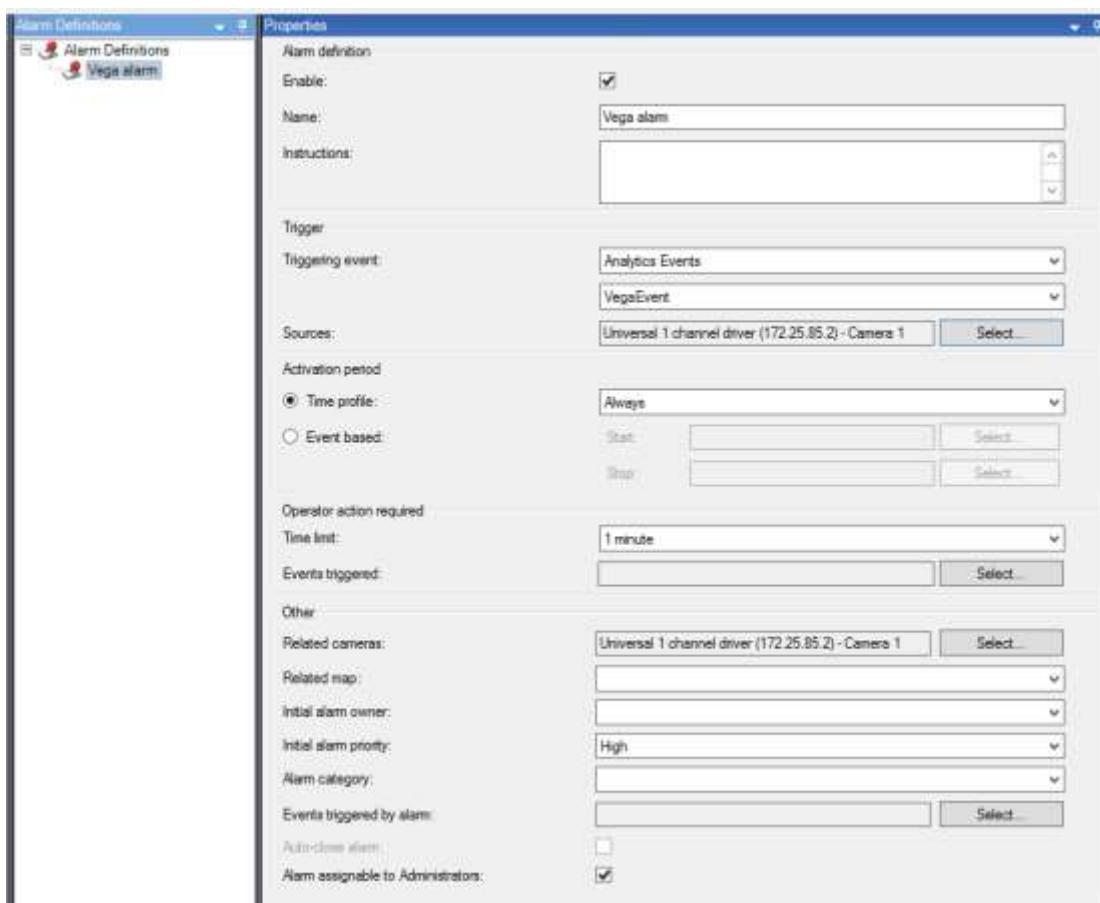


Figure 57 - Milestone XProtect Management Add Alarm window

Figure 23: Milestone XProtect Management Add Alarm window

- In the window “Site Navigation”, click the label “Alarms” and select the sub-element “Alarm Data Settings” and set the properties like show in the picture below:

Priorities

	Level	Name	Sound	Repeat sound
▶	1	High		<input type="checkbox"/>
	2	Medium		<input type="checkbox"/>
	3	Low		<input type="checkbox"/>
*				<input type="checkbox"/>

States

	Level	Name
	1	New
	4	In progress
	9	On hold
	11	Closed
▶*		

Figure 58 - Milestone XProtect Management Alarm Data Settings

- Move to the tab “Alarm List Configuration” and set the properties like show in the picture below:

Figure 59 - Milestone XProtect Management Alarm List Configuration

- Move to the tab “Reasons for Closing” and disable the reasons.

	Reason
*	

Figure 60 - Milestone XProtect Management Reason for Closing

6.5 Adding MatchList_A/B Event

In order to receive in XProtect Management Client the events **MatchList_A** and **MatchList_B**, is necessary create in XPortect Management Client two "Analytics Events" named respectively **MatchList_A** and **MatchList_B**, following the next steps:

1. In the window "Site Navigation", click the label "Rules and Events" and right click to the sub-element "Analytics Events", choose "Add New" menu item.
2. In the window "Properties" insert the events named:
 - "**MatchList_A**" and save.
 - "**MatchList_B**" and save.

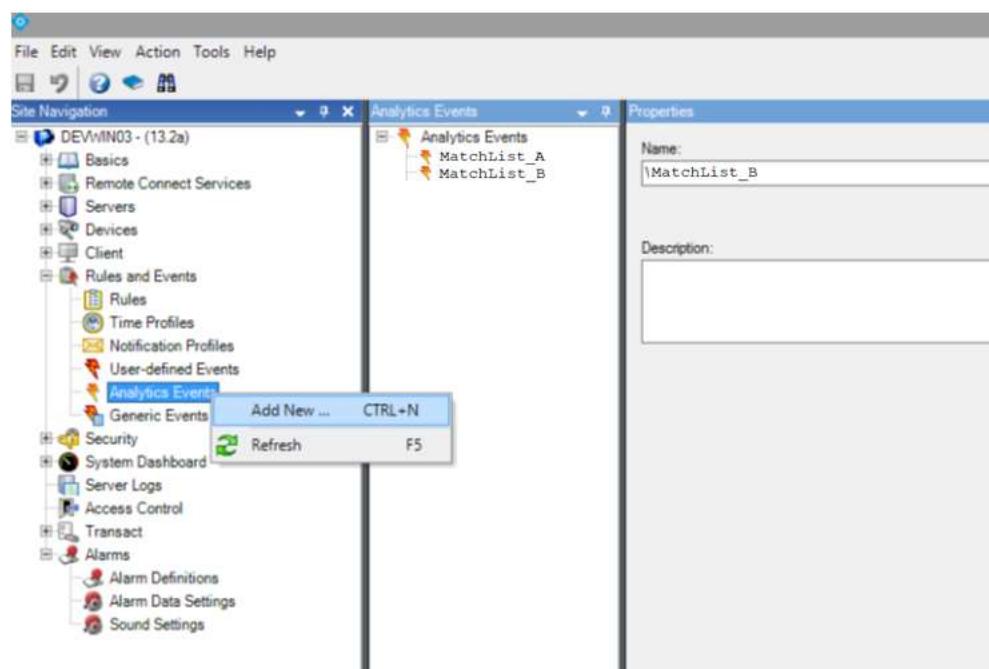


Figure 61 - Milestone XProtect Management "Analytics Events"

6.6 Adding MatchList_A/B alarm

In order to send **MatchList_A** and **MatchList_B** metadata from the server XProtect Management Client (in which are archived) to the client XProtect Smart Client, is necessary adding two alarm named “Match_List_A_Alarm” and “Match_List_B_Alarm” in the XProtect Management Client as described below:

1. In the window “Site Navigation”, click the label “Alarms” and right click to the sub-element “Alarm Definition”, choose “Add New” menu item.

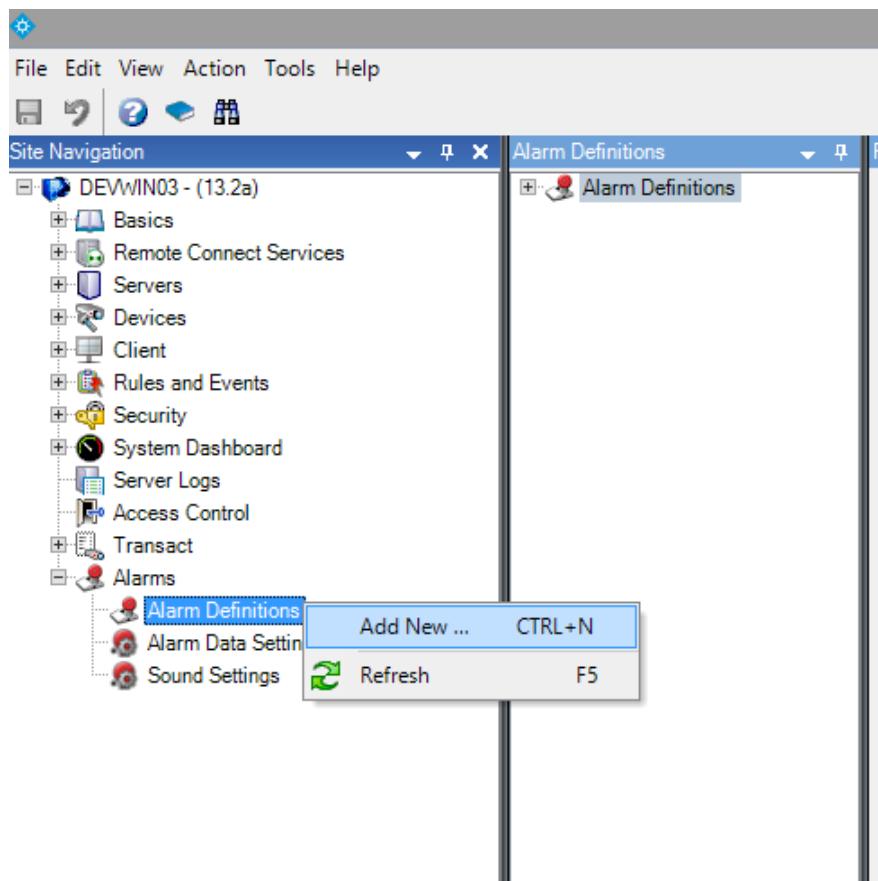


Figure 62 - Milestone XProtect Management “Alarms”

2. Compile the new alarm:

Element	Description
Enable	Checked
Name	Set “Match_List_A_Alarm” or “Match_List_B_Alarm”
Triggering event	Choose “Analytics Events” and “MatchList_A” or “MatchList_B”
Source	Choose “Universal 1 channel driver”, see chapter 6.1
Activation period	Choose “Time profile” and “always”
Operator action required	Choose “1 minute” for “Time Init”
Related Camera	Choose “Universal 1 channel driver”, see chapter 6.1
Initial alarm priority	Choose “High”
Alarm assignable by Administrators	Enable

Table 17 - Alarm fields

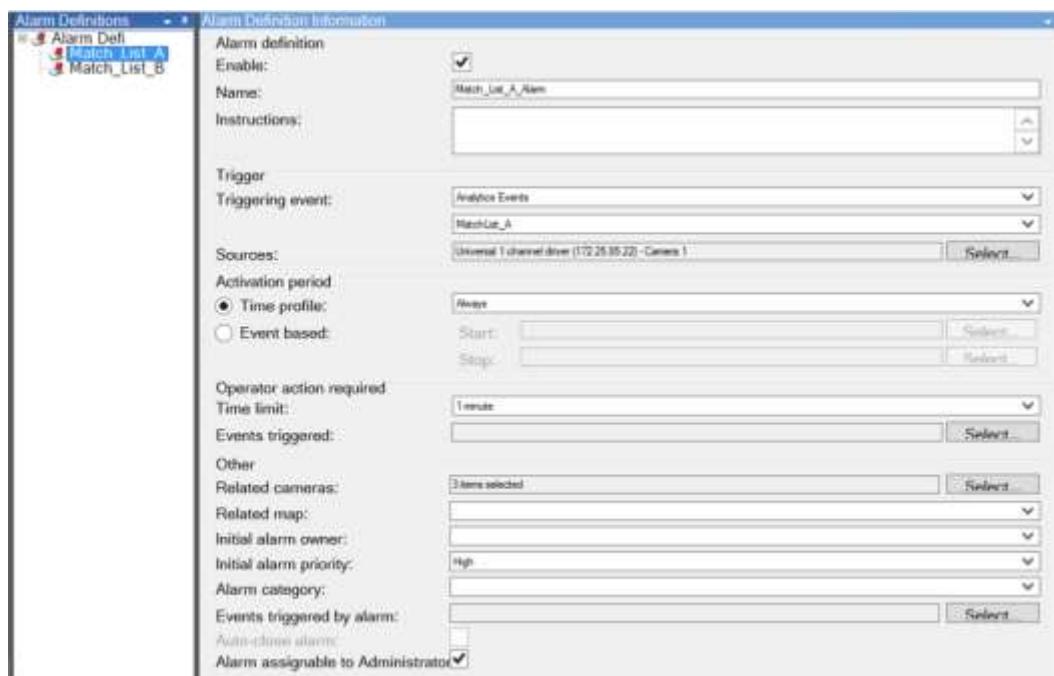


Figure 63 - Milestone XProtect Management Add MatchList_A alarm

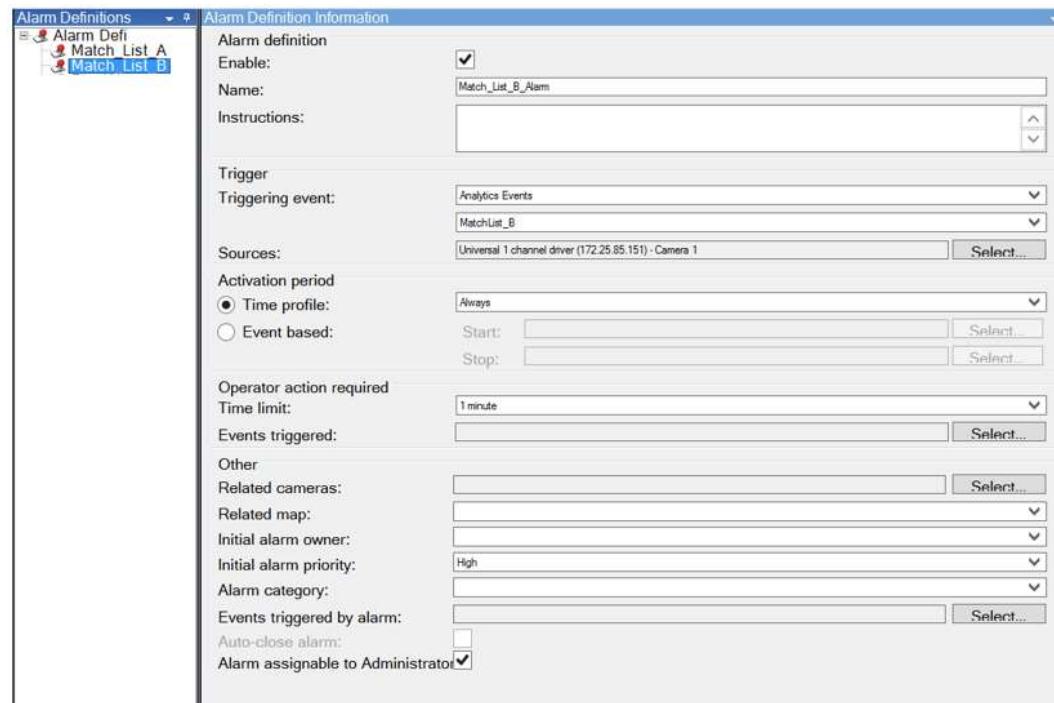


Figure 64-Milestone XProtect Management Add MatchList_B alarm

7 Troubleshooting and Support

7.1 Troubleshooting

The software tool Tattile Vega Plugin cannot find the device

- *The device is not correctly powered*
 - Check the device is correctly cabled to the power supply
 - Check the power supply is 24 VDC and at least 5 A
 - Check the cable PIN OUT
- *The device network is not correctly cabled*
 - Check the Ethernet wiring
 - If necessary, cable a new connector
- *Milestone services don't reload the list of available devices*
 - Open Microsoft Windows services
 - Restart Milestone services

Cannot access the web interface

- *The device IP address does not belong to the same netmask of user's PC*
 - Modify the IP address of the device or of the PC
- *The PC is configured for DHCP IP assignment*
 - Define a static IP address to the PC belonging to the host address of the device

The web interface does not display the live stream of the device

- *The device is not responding*
 - Restart the device
 - If the problem persists, contact your sales representative

7.2 Support

If you need advice or support, you can contact the Tattile technical support (FAE_Tattile@tattile.com) using the references located in the front pages of this manual.

8 Revision History

Rev.	Date	Description	Author	Approved by
01	2019-09-27	First Release	M. Bontempo	F. Carta
02	2019-10-14	Add Configuring camera	M. Zaffignani	F. Carta
03	2019-10-15	Adding Tattile's cameras to Xprotect	F. Carta	F. Carta
04	2019-10-28	Updated screenshot	M. Bontempo	F. Carta
05	2020-02-09	Review	F. Carta	F. Carta
06	2020-03-16	License	F. Carta	F. Carta
07	2020-04-23	<ul style="list-style-type: none">• Modify: configuring Vega Camera to send LPR metadata• Add: Configuring Vega Camera to send Diagnostic metadata• Add: Configuring Vega Camera to send MatchList_A/B metadata• Add: Template MatchList_A• Add: Template MatchList_B• Add: Adding MatchList_A/B Event• Add: Adding MatchList_A/B Alarm	M. Bontempo	F. Carta
08	2020-06-18	<ul style="list-style-type: none">• Add troubleshooting	M. Bontempo	F. Carta

Table 18 - Revision history