



id-101000010

Vaidio Alert Porter Installation & Manual

VAIBS
VIDEO AI ANALYTICS

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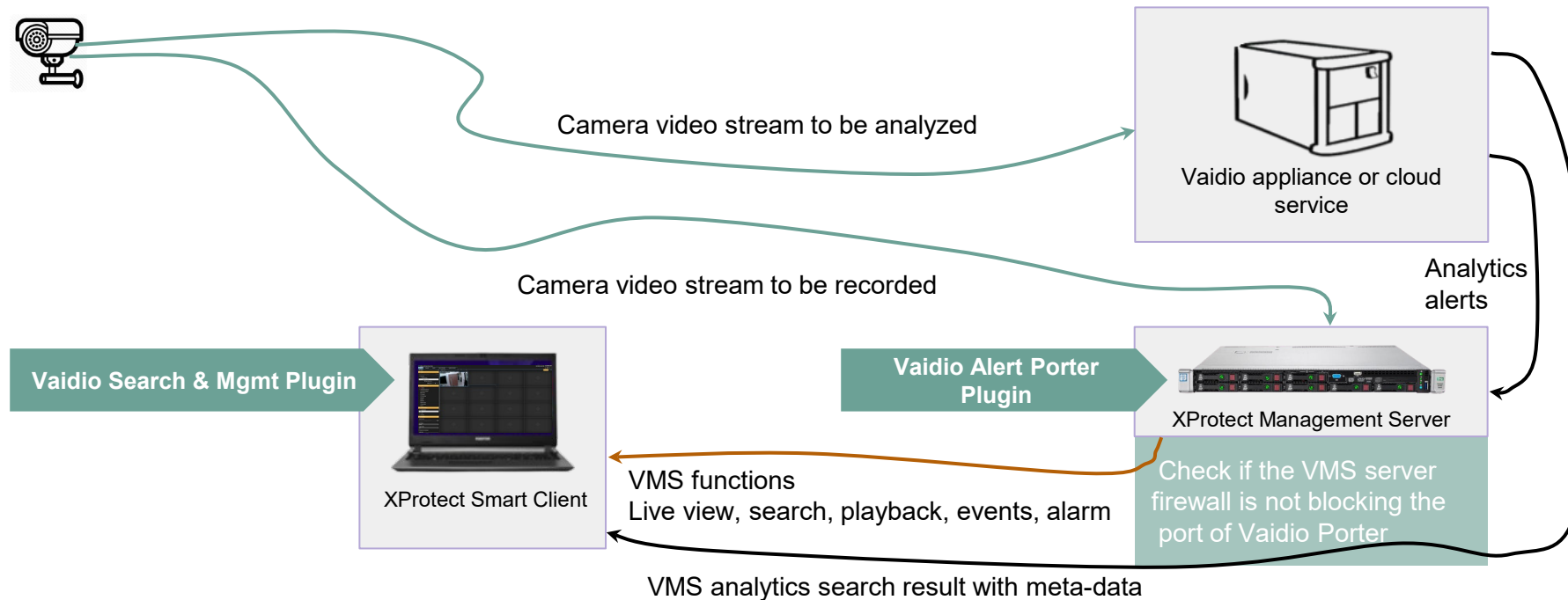
Contact: info@vaibs.com



Preparations



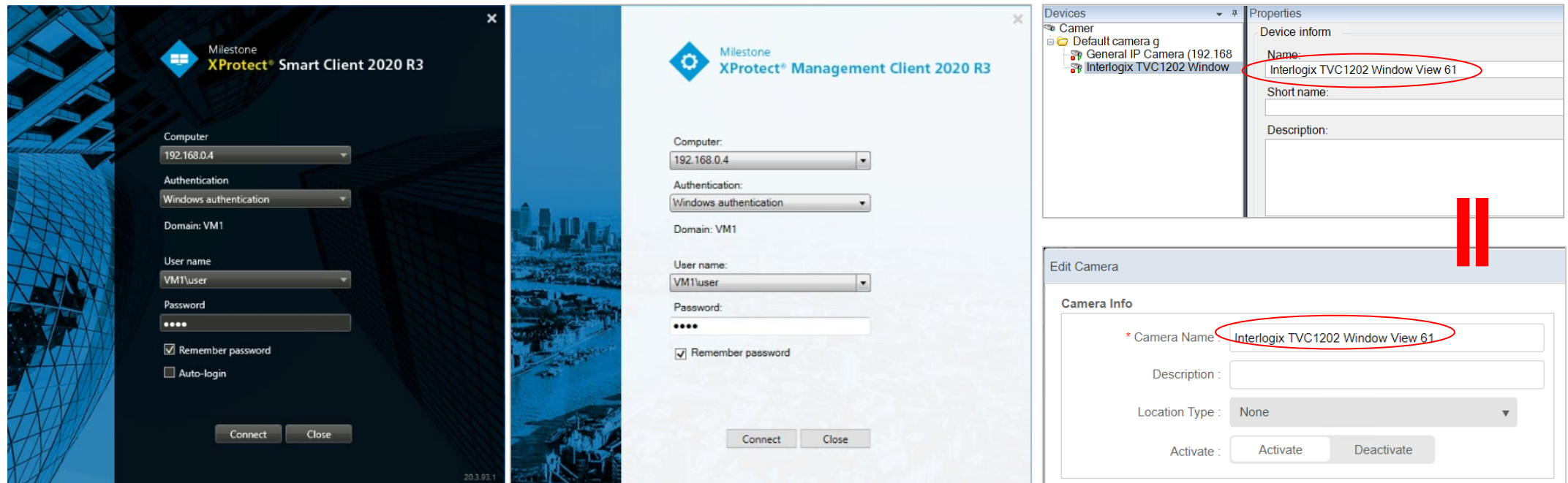
Preparation - Topology, Flow And Components



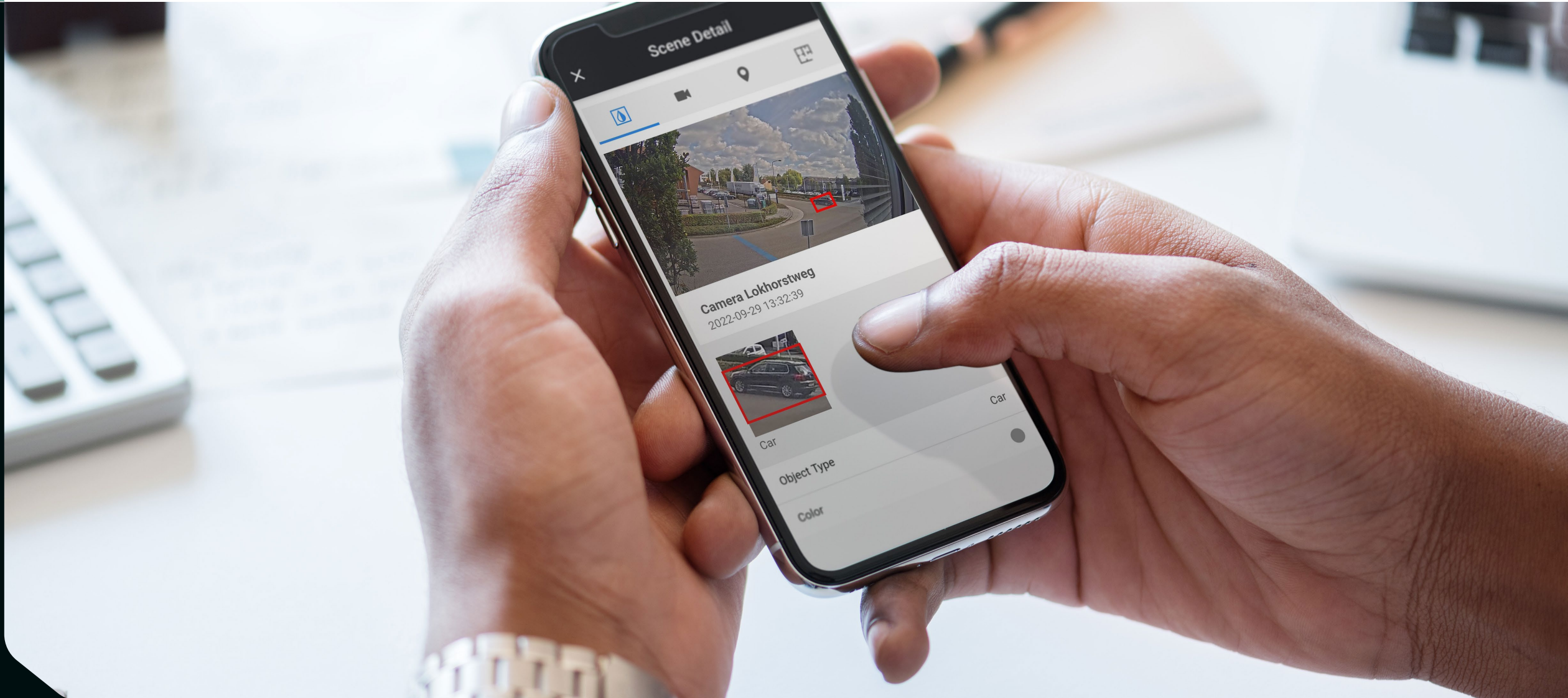
To synchronize the system it is required among camera, VMS and Vaidio service to share "a common" NTP time server

Preparation - Milestone VMS & Vaidio

- Install Milestone 2020R3 or after on x64 Windows 10 platform.
- Standalone or distributed Smart Client 2020R3 is tested with Vaidio v4.2.1 and after.
- Both Vaidio and VMS need to have access to the camera stream.
- It is a must for the Alert Porter that the camera name is exactly the same in Vaidio and Milestone software.

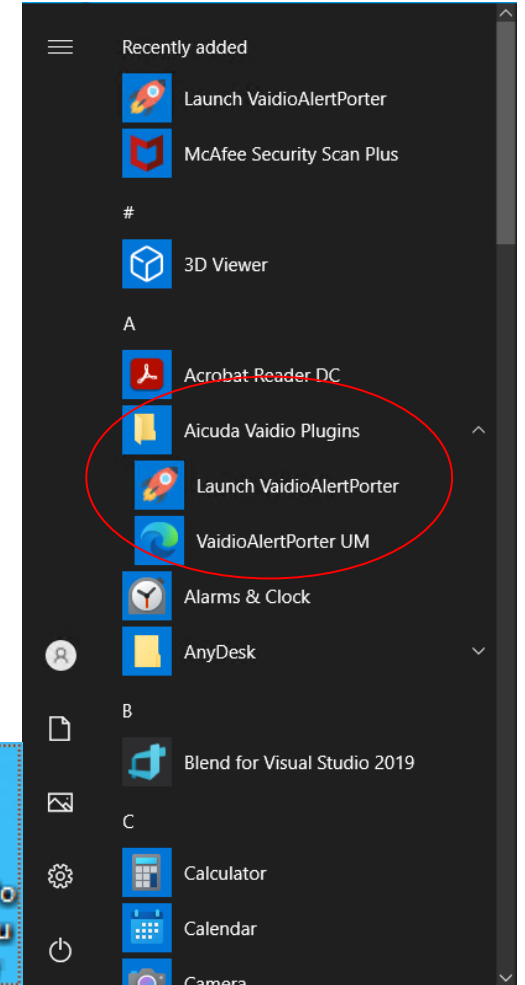
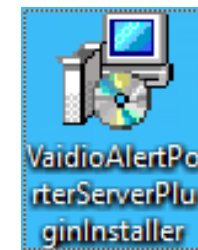


Installation Guide



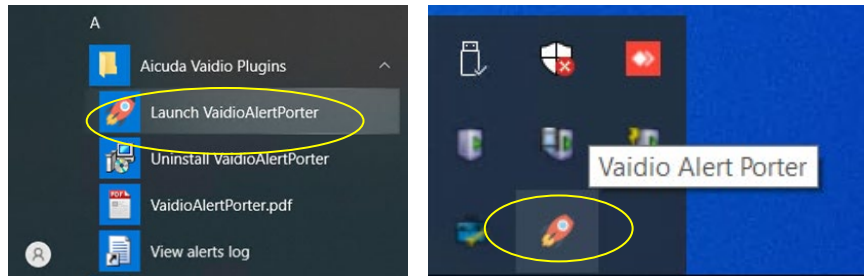
Installation & Verification

1. A base Milestone VMS installation on XProtect Corporate or XProtect Expert platform in Windows 10 w/ x64.
2. Download the plugin installer from the [download link](#) and copy it in the PC / server where the **XProtect Management Server** is installed.
3. Launch the downloaded installer
“VaidioAlertPorterServerPluginInstaller -x.x.x.x.msi”

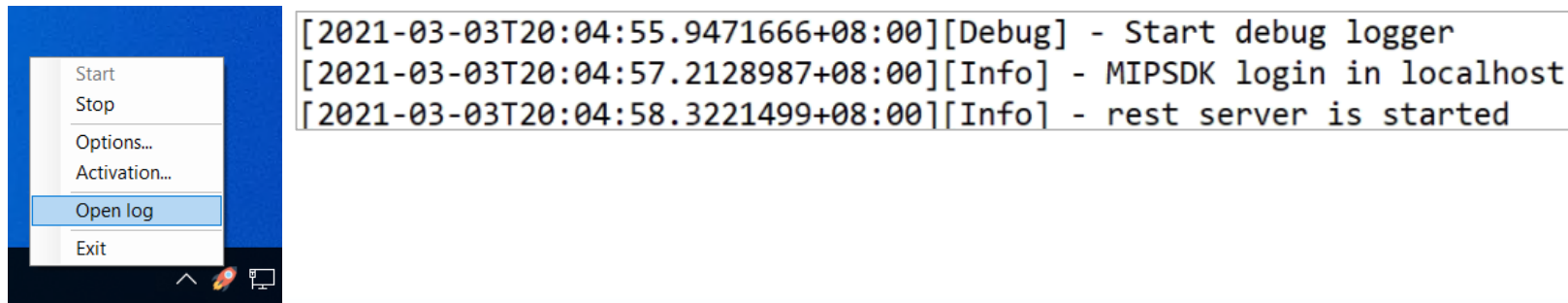


Plugin Verification

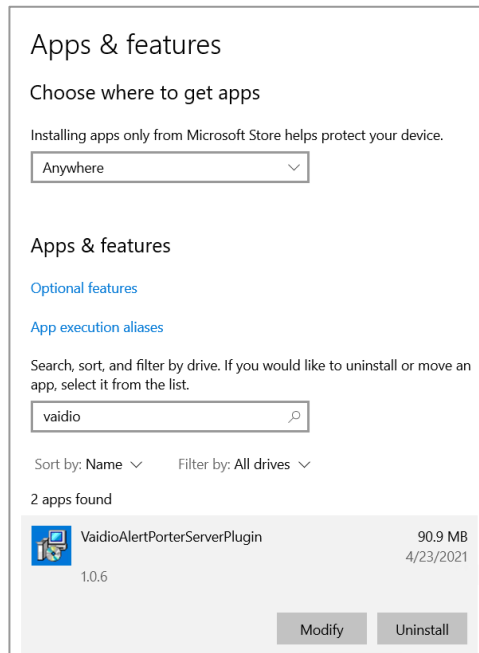
1. Launch Vaidio Porter plugin with **administrator privileges** and check the Porter-rocket icon in the taskbar.



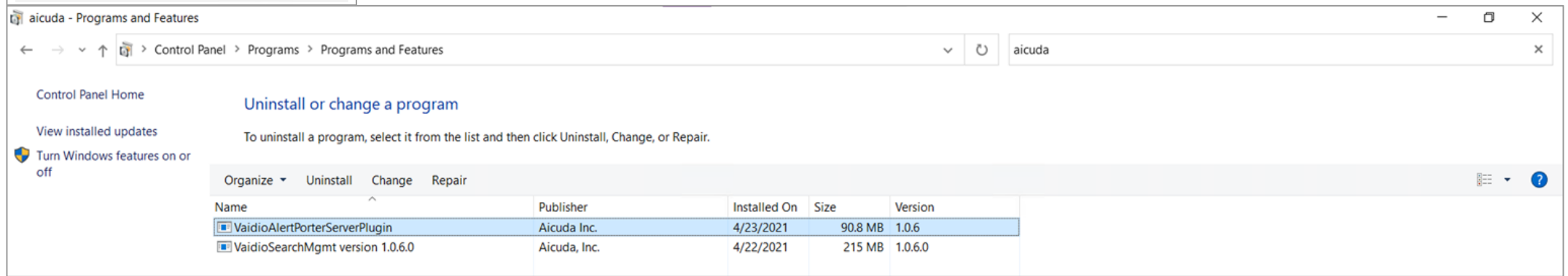
2. Open the Vaidio Porter log file by right-click on the notification icon to check the text description and make sure that the plugin is up & running.



Plugin Removal



To uninstall the **VaidioAlertPorterServerPlugin**, open the programs in control panel to remove the plugin. There is no option but remove directly.

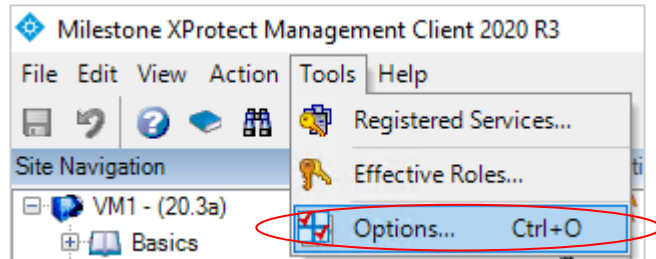


Manual

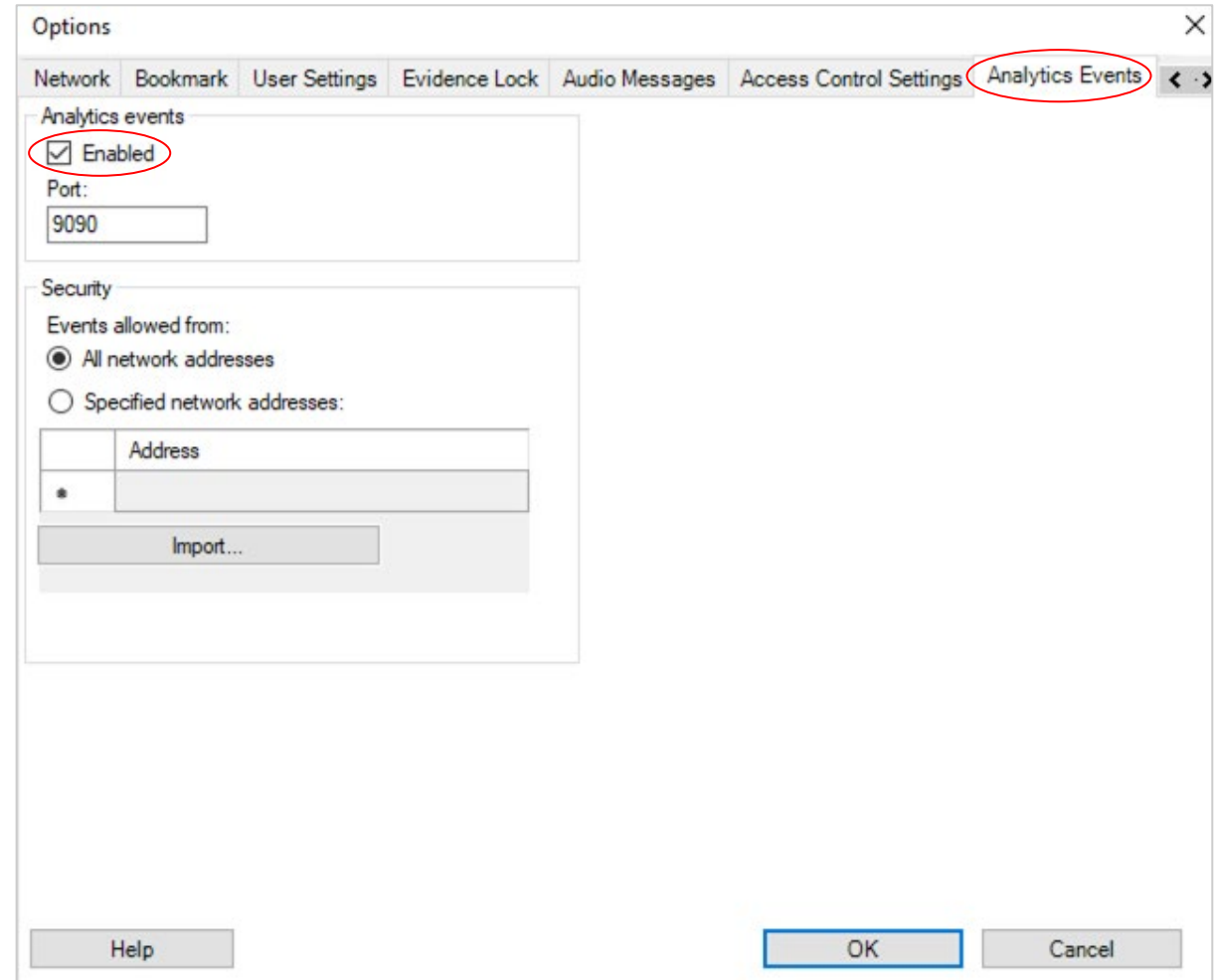


Alert Porter - Create Milestone Analytics Alerts

1. Login into the Milestone XProtect Management Client to create analytics events for the upcoming mapping to Vaidio alerts.
2. Go to Tools - Options to enable analytics events.



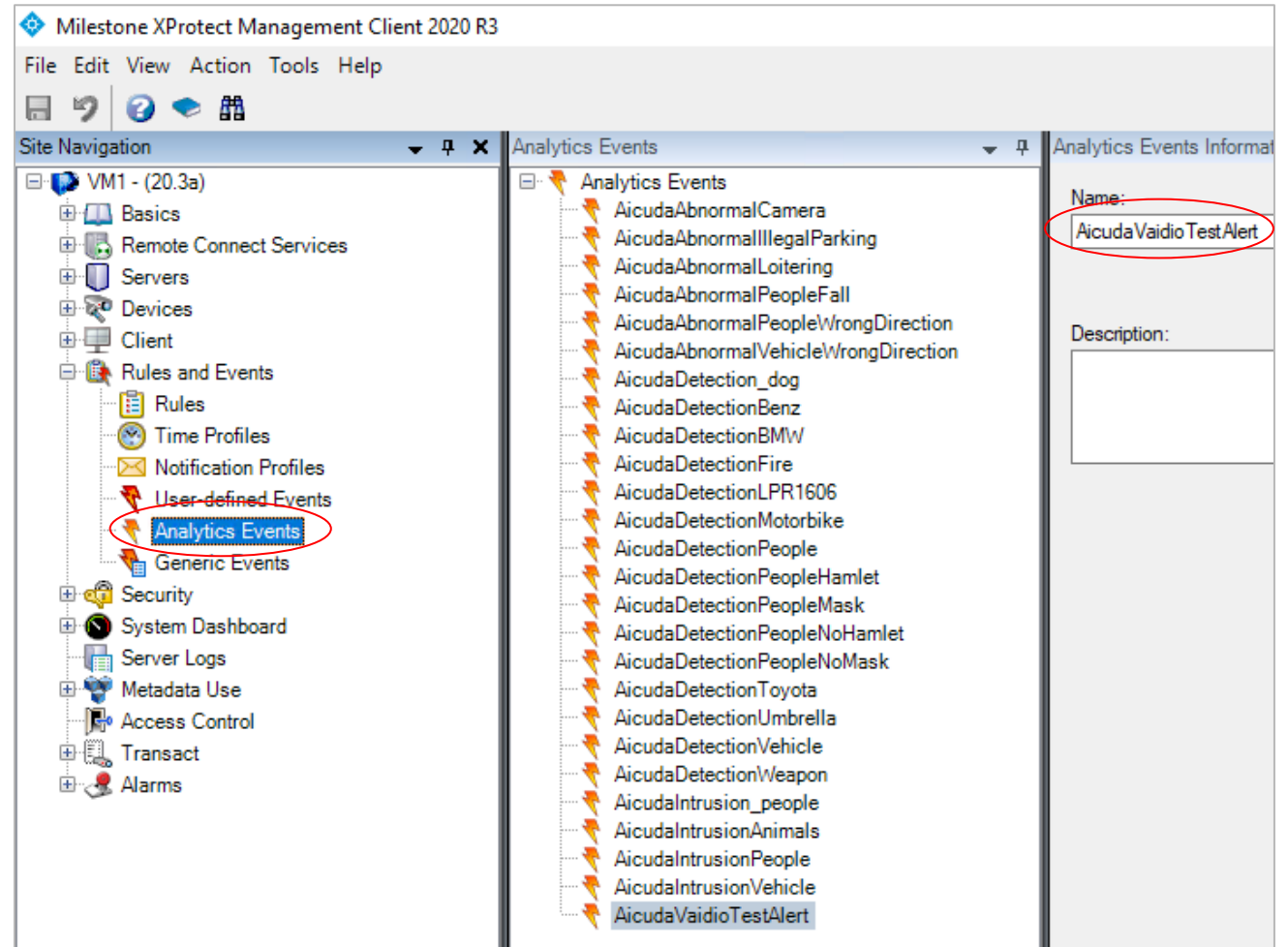
3. The default setting for analytics events is disabled. Make sure that the analytics events feature is enabled. Click "Enabled" in the check box and press the "OK" button.



Alert Porter - Create Milestone Analytics Alerts

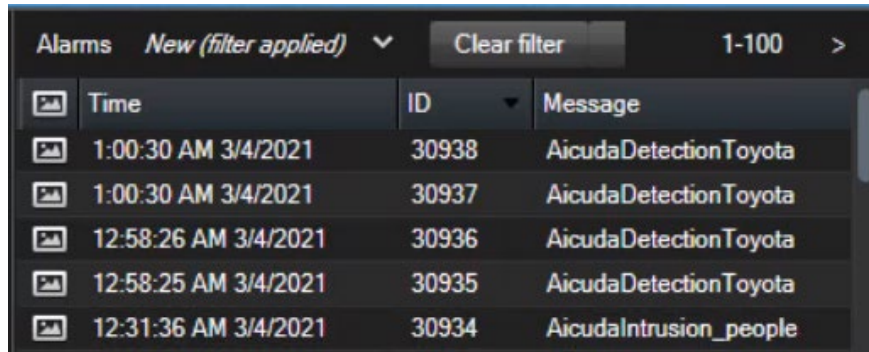
1. User creates analytics alerts in the XProtect Management Client (see picture)
2. Create an “AicudaVaidioTestAlert” for testing purpose.
3. Create other alerts for mapping different types of analytics events. Define the alert names as specific as possible.
4. Examples of alert names that users can create: “AicudaDetectionBMW” to receive alerts when a BMW is detected.
“AicudaDetectionAnimals” to receive alerts when an animal is detected.
“AicudaAbnormalCamera” to receive alerts when cameras are moved into an abnormal position.

** Note: alert names need to be unique and without space in between. Underscoring is allowed.



Alert Porter - Create Milestone Alarms

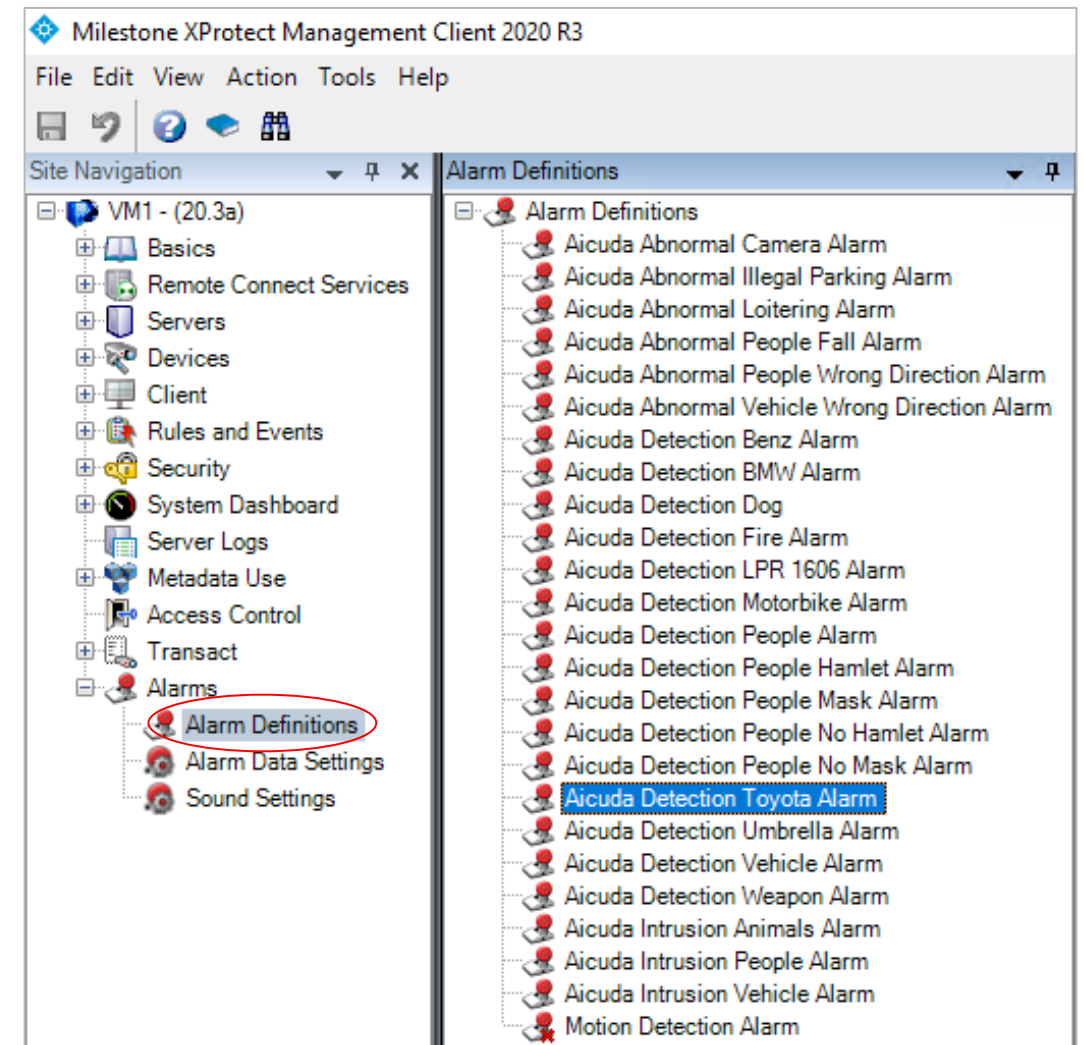
1. User can trigger alarms from analytics events in order to view active pop-up alarms in the XProtect Smart Client.



The screenshot shows the 'Alarms' section in the XProtect Smart Client interface. It features a table with columns for Time, ID, and Message. The table contains five entries, all with a status icon of a camera with a red dot. The messages are 'AicudaDetectionToyota' and 'AicudaIntrusion_people'.

Time	ID	Message
1:00:30 AM 3/4/2021	30938	AicudaDetectionToyota
1:00:30 AM 3/4/2021	30937	AicudaDetectionToyota
12:58:26 AM 3/4/2021	30936	AicudaDetectionToyota
12:58:25 AM 3/4/2021	30935	AicudaDetectionToyota
12:31:36 AM 3/4/2021	30934	AicudaIntrusion_people

2. Go to the alarm node in the XProtect Management Client. Right click on the alarm node to create new mapping alarms.



Alert Porter - Create Milestone Alarms

3. Go to the Trigger section --> Triggering event and select “Analytics Events” from the drop down field. In the next field select the event that you like to trigger for a corresponding alarm from the drop down field: “AicudaDetectionToyota”.
4. Key in a name in the Alarm definition field that is associate with the name of the created analytics event for an easy mapping. For example: “Aicuda Detection Toyota Alarm”

The screenshot displays the 'Alert Porter' interface for creating milestone alarms. On the left, a sidebar titled 'Alarm Definitions' lists various alarm types, with 'Aicuda Detection Toyota Alarm' highlighted. The main area is the 'Alarm definition' form, which includes the following sections:

- Alarm definition:** Includes an 'Enable' checkbox (checked) and a 'Name' field containing 'Aicuda Detection Toyota Alarm' (circled in red).
- Instructions:** A text area for additional details.
- Trigger:** Includes a 'Triggering event' dropdown set to 'Analytics Events' and a 'Sources' dropdown set to 'AicudaDetectionToyota' (circled in red).
- Activation period:** Includes a 'Time profile' dropdown set to 'Always' and an 'Event based' section with 'Start' and 'Stop' fields.
- Map:** Includes an 'Alarm manager view' dropdown set to 'Smart map' and a 'Related map' dropdown.

Alert Porter - Milestone Alarms

The user can view the created alarms in real time pop-ups via “Live View” or “Alarm Manager”.

For example: show “AicudaDetectionToyota” to view all videos with a Toyota.



Milestone XProtect Smart Client

3/4/2021 2:03:08 AM

Live Playback Search Alarm Manager Vaidio Manager System Monitor

XProtect

New View (2 x 2)

Views

Search views and cameras...

Private

New Group

4 New View (2 x 2)

Cameras

VM1

General IP Camera (192.168.0.62) - Camera 1 - 3/4/2021 1:41:35.992 AM

2021-03-04 17:41:35

IPC

Interlogix TVC1202 Window View 61 - 3/4/2021 1:41:35.974 AM

03-04-2021 Thu 17:41:37

Camera 01

Interlogix TVC1202 Window View 61 - 3/4/2021 1:41:46.070 AM

03-04-2021 Thu 17:41:47

Camera 01

Quick Filters

New (5923)

In progress (0)

On hold (0)

Closed (0)

Servers

VM1

Alarms New (filter applied) Clear filter 1-100

Time	ID	Message
1:41:36 AM 3/4/2021	30991	AicudaDetectionToyota
1:39:15 AM 3/4/2021	30990	AicudaDetectionToyota
1:30:12 AM 3/4/2021	30989	AicudaIntrusion_people
1:30:11 AM 3/4/2021	30988	AicudaIntrusion_people
1:30:10 AM 3/4/2021	30987	AicudaIntrusion_people
1:30:10 AM 3/4/2021	30986	AicudaIntrusion_people
1:30:05 AM 3/4/2021	30985	AicudaIntrusion_people
1:30:05 AM 3/4/2021	30984	AicudaIntrusion_people
1:30:04 AM 3/4/2021	30983	AicudaIntrusion_people
1:30:03 AM 3/4/2021	30982	AicudaIntrusion_people
1:30:02 AM 3/4/2021	30981	AicudaIntrusion_people
1:30:02 AM 3/4/2021	30980	AicudaIntrusion_people

General IP Camera (192.168.0.62) - Camera 1

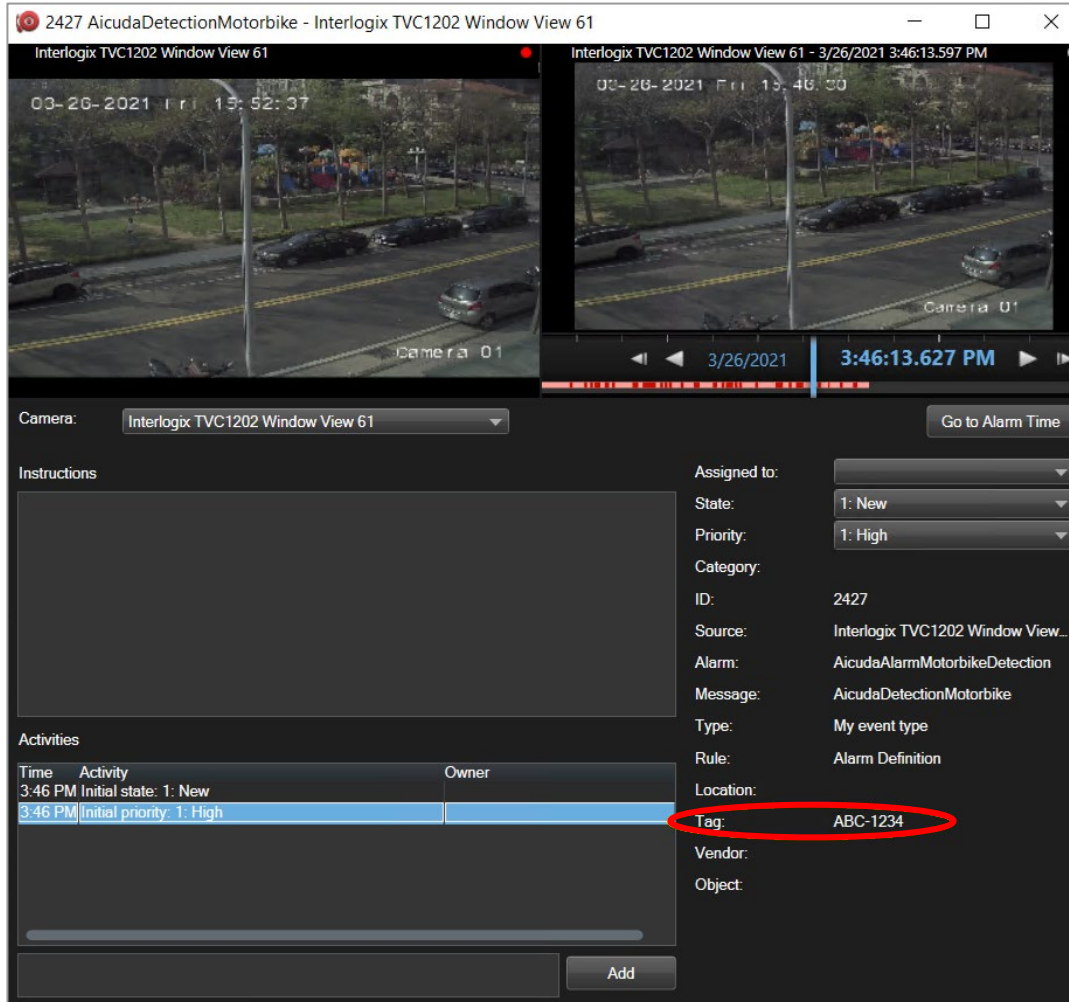
All cameras in view

1:20 AM 1:30 AM 3/4/2021 1:41:36.000 AM 1:50 AM 2:00 AM 2:10 AM

Export

Evidence Lock

Alert Porter - Milestone Alarms with tag



The screenshot displays the Alert Porter interface for a motorbike detection alarm. The top section shows two video feeds from 'Interlogix TVC1202 Window View 61'. Below the feeds is a configuration panel with the following details:

- Camera: Interlogix TVC1202 Window View 61
- Instructions: (Empty text area)
- Assigned to: (Dropdown menu)
- State: 1: New
- Priority: 1: High
- Category: (Dropdown menu)
- ID: 2427
- Source: Interlogix TVC1202 Window View...
- Alarm: AicudaAlarmMotorbikeDetection
- Message: AicudaDetectionMotorbike
- Type: My event type
- Rule: Alarm Definition
- Location: (Dropdown menu)
- Tag: ABC-1234 (highlighted with a red circle)
- Vendor: (Dropdown menu)
- Object: (Dropdown menu)

At the bottom, there is an 'Activities' table with the following data:

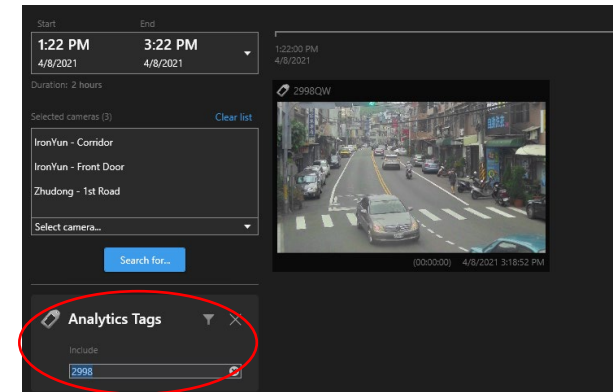
Time	Activity	Owner
3:46 PM	Initial state: 1: New	
3:46 PM	Initial priority: 1: High	

An 'Add' button is located at the bottom right of the activities section.

User can add additional information via the tag field. As an example a license plate number with wildcard from Vaidio alert. Examples of delivered alerts to Milestone Alarm:

<http://192.168.0.47:2234/v1/alerts/AicudaDetectionToyota?cn={cameraName}&t={cameraName}&t={eventTimeStamp%E MMM d HH:mm:ss z yyyy}&tag={LicensePlate}>

<http://10.0.0.1:2234/v1/alerts/AicudaDetectionDog?cn={cameraName}&t={cameraName}&t={eventTimeStamp%E MMM d HH:mm:ss z yyyy}&tag=dog>



The screenshot displays the Alert Porter interface for a dog detection alarm. The top section shows a video feed from '2998QW'. Below the feed is a configuration panel with the following details:

- Start: 1:22 PM 4/8/2021
- End: 3:22 PM 4/8/2021
- Duration: 2 hours
- Selected cameras (3): IronYun - Corridor, IronYun - Front Door, Zhudong - 1st Road
- Search for... (button)
- Analytics Tags (highlighted with a red circle): Include 2998

Alert Porter - Milestone

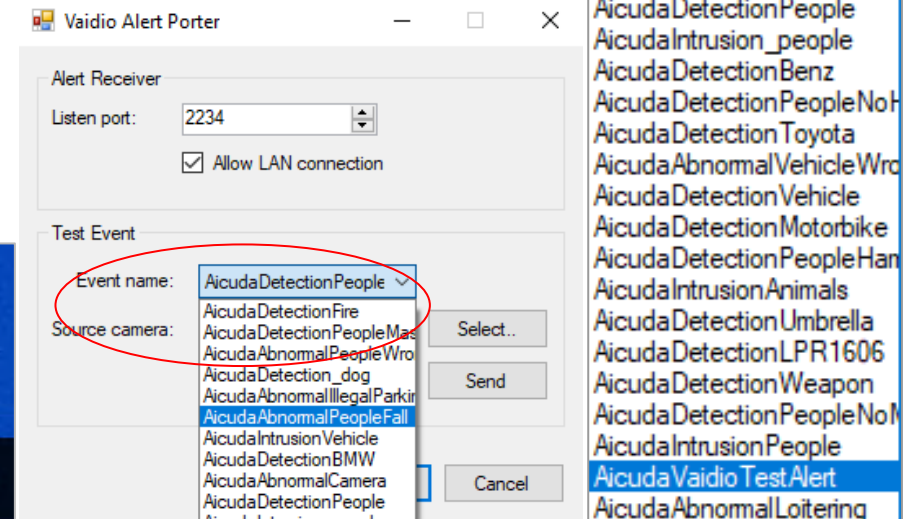
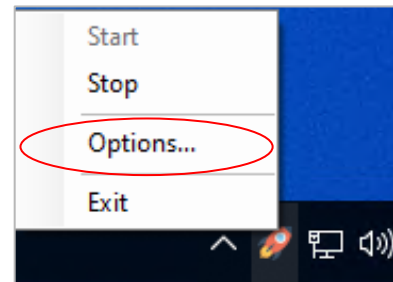
1. Launch “Vaidio Alert Porter” on a PC / Server where Milestone “XProtect Management Server” is installed.
2. After launch user checks if the log file indicates that the Milestone XProtect Management Server is up and running as shown in the picture below. The Vaidio Porter program receives the alerts from Vaidio and transfers it to the XProtect Management Server.

```
[2021-03-03T20:04:55.9471666+08:00][Debug] - Start debug logger  
[2021-03-03T20:04:57.2128987+08:00][Info] - MIPSdk login in localhost  
[2021-03-03T20:04:58.3221499+08:00][Info] - rest server is started
```

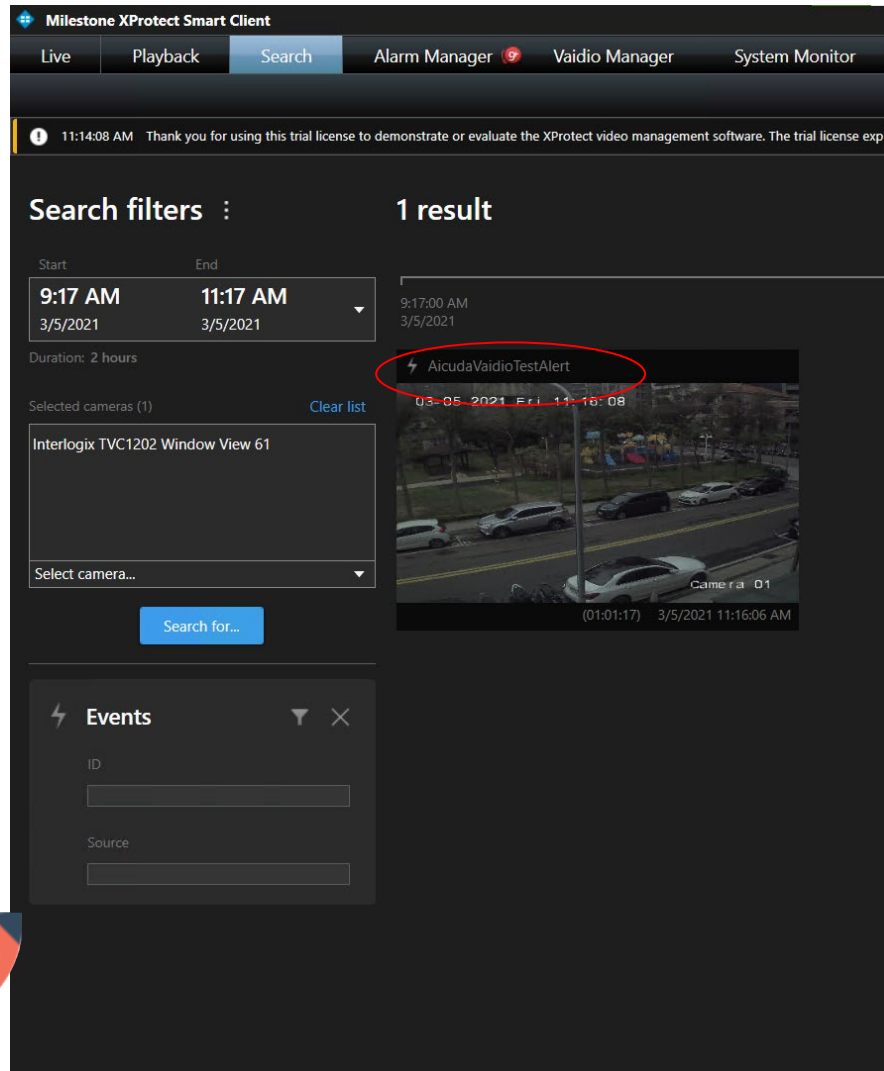
3. For testing purpose: right click the rocket porter icon and select “Options”

How to check if Vaidio Alert Porter is able to send out analytics events to Milestone? User can open the Alert Porter and go to the section “Event name” and select an event from the analytics events list. The user can press the “Send” button in the XProtect Management Server and check if the alert is received. In the example on the right the “AicudaVadioTestAlert” is selected for a test.

** Please select a source camera before sending



Alert Porter - Option and Logs



Whenever a user clicks on the “Send” button in the Vaidio Alert Porter, the Porter is going to send an analytic event from the event name that the user selected. Note: the drop down menu with event names are previously created by the user in the XProtect Management Client.

Select the “AicudaVaidioTestAlert” and check the Xprotect Smart Client. The picture on the left shows the received events.

When Vaidio Alert Porter receives the alert from Vaidio, it examines the http alert format with `/v1/alerts/{AnalyticEventName}`.

The red circle in the picture below is a verification that the alerts have been received.

```
[2021-03-05T11:16:16.6464160+08:00][Debug] - Send test message 'AicudaVaidioTestAlert'
[2021-03-05T11:35:22.0416227+08:00][Debug] - /v1/alerts/AicudaDetectionToyota?cn=Interlogix%20TV
[2021-03-05T11:35:22.0503574+08:00][Debug] - Send message 'AicudaDetectionToyota'
[2021-03-05T12:15:04.2545934+08:00][Debug] - /v1/alerts/AicudaIntrusion_people?cn=Interlogix%20TV
[2021-03-05T12:15:04.2556165+08:00][Debug] - Send message 'AicudaIntrusion_people'
[2021-03-05T12:15:05.2387929+08:00][Debug] - /v1/alerts/AicudaIntrusion_people?cn=Interlogix%20TV
[2021-03-05T12:15:05.2399227+08:00][Debug] - Send message 'AicudaIntrusion_people'
```



Alert Porter - Vaidio

Examples of alerts that are delivered to Milestone:

<http://192.168.0.47:2234/v1/alerts/AicudaDetectionToyota?>

<http://10.0.0.1:2234/v1/alerts/AicudaDetectionDog?>

- 192.168.0.47/10.0.0.1 is the IP of Vaidio Alert Porter (identical to IP XProtect Management Server).
- 2234 default port number of Vaidio Alert Porter.
- The analytics alert is linked to the created Milestone analytic events in the XProtect Management Server.
 - Analytic Events of “[AicudaDetectionDog](#)”
 - Analytic Events of “[AicudaDetectionToyota](#)”
- The parameters of cn, t, tag (option) and altImgUrl to be fill like picture below. **cn and t** are MUST to be filled.

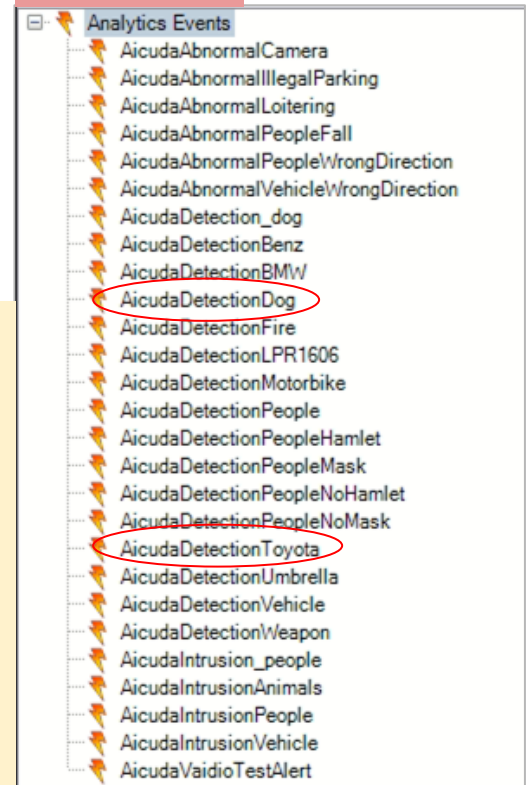
**** NO “check connection” required. User can just check the log of Vaidio Alert Porter. Or you will see HTTP 404 Error**

**** NO Authentication required for authentication type. Request type, select “POST”**

The screenshot shows the 'Edit Alert' window with the following details:

- Alert Name:** milestone_car_detection_alert
- Alert Type:** Video Search
- Type:** Vehicle >0 x
- Trigger (Optional):** HTTP, POST
- Params:**
 - cn: {cameraName}
 - t: {eventTimeStamp%E MMM d HH:mm:ss z yyyy}
 - tag: Car
 - altImgUrl: {alertImageMetadataUrl}
- Action:** HTTP, http://192.168.0.48:2234/v1/alerts/AicudaDetectionCar

Configure or
disable the
Firewall to allow
port 2234



Parameters content

cn = {cameraName}

t = {eventTimeStamp%E MMM d
HH:mm:ss z yyyy}

tag = user define

altImgUrl={alertImageMetadataUrl}



Alert Porter - Create Bookmarks

1. Classify the detection alerts from Search via Bookmarks. Picture in the right shows specific keyword bookmark: “Toyota”.
2. When a user receives analytics events from Vaidio Alert Porter he can setup rules to create bookmarks.

The image displays the Alert Porter interface, which is divided into several sections:

- Site Navigation:** A tree view on the left showing the hierarchy of the system, including VM1 - (20.3a), Basics, Remote Connect Services, Servers, Devices, Client, Rules and Events, Time Profiles, Notification Profiles, User-defined Events, Analytics Events, Generic Events, Security, System Dashboard, Server Logs, Metadata Use, and Access Control.
- Rules:** A list of rules in the center, including various Aicuda Detection bookmarks. The rule "Aicuda Detection Toyota Bookmark" is highlighted.
- Rule Information:** A panel on the right showing the configuration for the selected rule. It includes fields for Name, Description, and a Definition section. The Definition section contains the following text: "Perform an action on AicudaDetectionToyota (Analytics Events) from Interlogix TVC1202 Window View 61 day of week is Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday Create bookmark AicudaDetectionToyota on the devices from metadata".
- Search filters:** A panel on the right showing search filters for the selected rule. It includes a "Start" and "End" time range (12:00 AM to 1:03 PM), a "Duration" of 7 days 13 hours 3 minutes, and a "Selected cameras" list. The "Keywords" section is highlighted with a red circle, showing the keyword "Toyota".
- Search results:** A panel on the right showing 185 results for the search. It includes a list of results with timestamps and camera names, such as "AicudaDetectionToyota" and "Interlogix TVC1202 Window View 61".

Bookmarks Classification

Click the “Search” tab in the XProtect Smart Client.

Select the keywords for the event search and all classified events will pop-up.

In the example on the right all Toyota cars are popping-up.

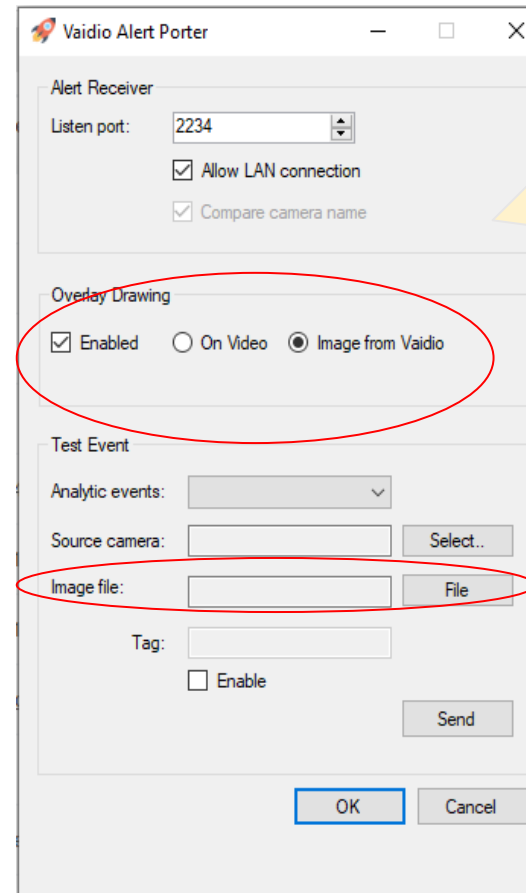
The screenshot displays the Milestone XProtect Smart Client interface. The top navigation bar includes tabs for Live, Playback, Search, Alarm Manager, Vaidio Manager, and System Monitor. The 'Search' tab is active. Below the navigation bar, the 'Search filters' section shows a time range from 10:40 PM on 3/3/2021 to 10:40 PM on 3/4/2021, a duration of 24 hours, and a selected camera 'Interlogix TVC1202 Window View 61'. The 'Keywords' field contains 'toyota'. The 'Search for...' button is visible. The '18 results' section shows a grid of video thumbnails. One thumbnail is highlighted with a red circle, showing a white Toyota car. The right sidebar displays the details for the selected event, including the camera name 'Interlogix TVC1202 Window View 61', the event name 'AicudaDetectionToyota', the start time '3/4/2021 7:35:22 PM', the end time '3/4/2021 7:35:52 PM', the description 'Interlogix TVC1202', and the headline 'AicudaDetectionToyota'.

Overlay in alarm manager

Since version 1.0.10, alert porter introduce alarm overlay feature. Operator can see the highlighted overlay from the alarm view in an more straightforward way to identify the target from the view.

Two types of overlay:

1. The still image with overlays from Vaidio.
2. The overlay drawing on video footage with the metadata from Vaidio.



Vaidio Alert Porter

Alert Receiver

Listen port: 2234

☒ Allow LAN connection

☒ Compare camera name

Overlay Drawing

☒ Enabled ☐ On Video ☒ Image from Vaidio

Test Event

Analytic events: [dropdown]

Source camera: [text] Select..

Image file: [text] File

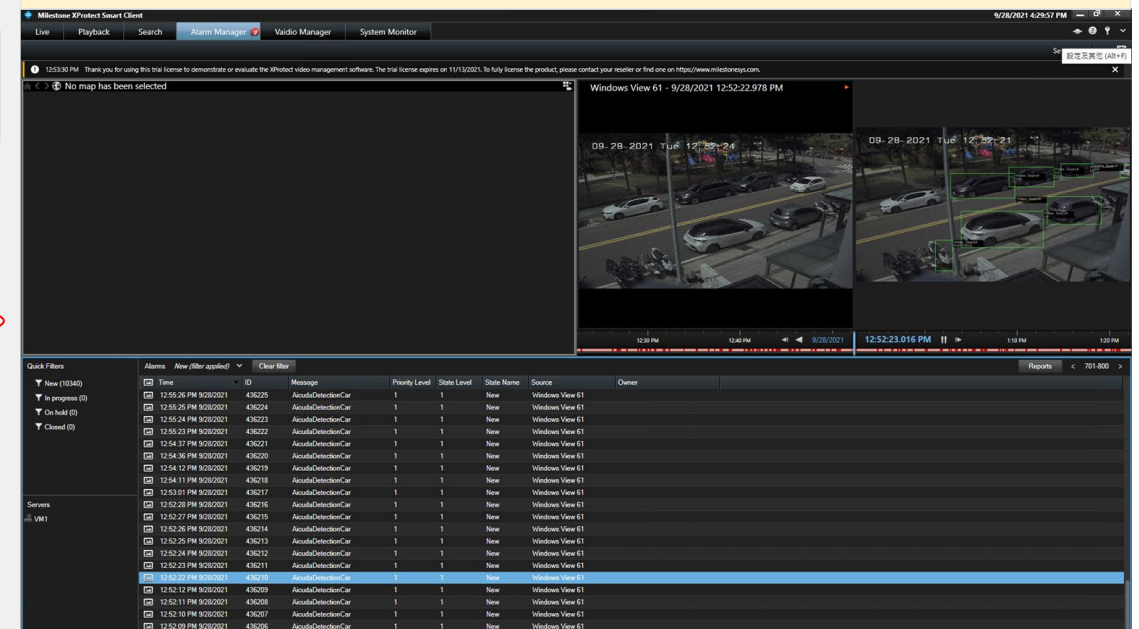
Tag: [text] ☐ Enable

Send

OK Cancel

- Checked the "Enabled" for overlay drawing is required for conduct the overlay feature.

** In test event purpose : Image file button for user to specify any image file from local client companion to an analytic event selected to send to XProtect Alarm Manager, so you may see the image on right hand side for a test purpose.



Overlay - Image from Vaidio

In the parameters fields other than “cn” and “t”, “altImgUrl” is introduced for bringing the image to XProtect Smart Client. The variable field to be fill are listed. The tag is not necessary for type of Image from Vaidio but type of “On video”

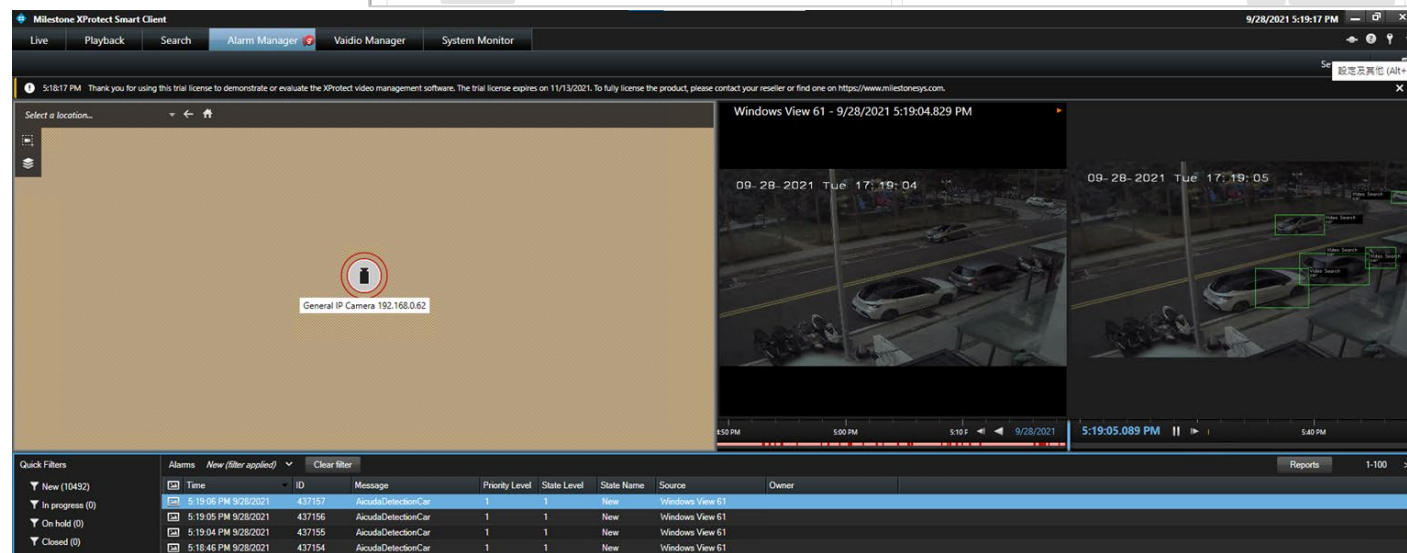
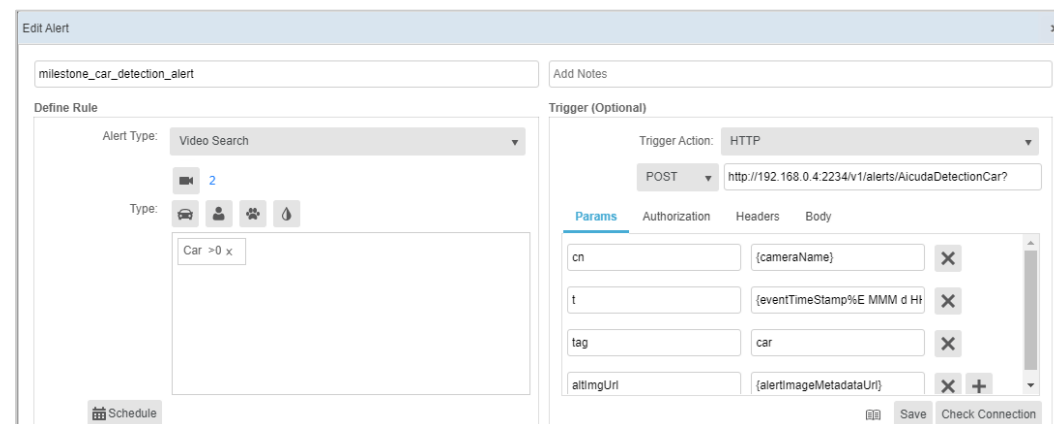
cn = {cameraName}

t = {eventTimeStamp%E MMM d HH:mm:ss z yyyy}

altImgUrl = {alertImageMetadataUrl}

** In the URL for HTTP alert please follow the format.

http://{IP of AlertPorter}:2234/v1/alerts/{TargetAnalyticEventName}?



Overlay - On Video

In the parameters fields other than “cn” and “t”, “altImgUrl” is introduced for bringing the image to XProtect Smart Client. The variable field to be fill are listed. The tag is not necessary for type of Image from Vaidio but type of “On video”

cn = {cameraName}

t = {eventTimeStamp%E MMM d HH:mm:ss z yyyy}

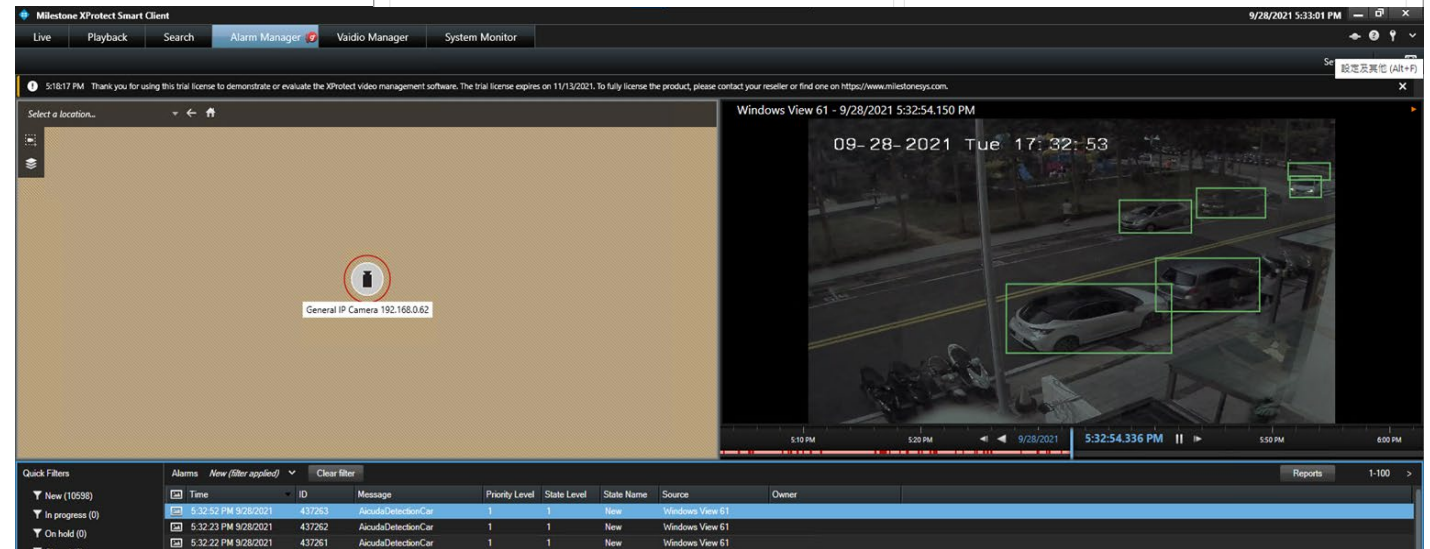
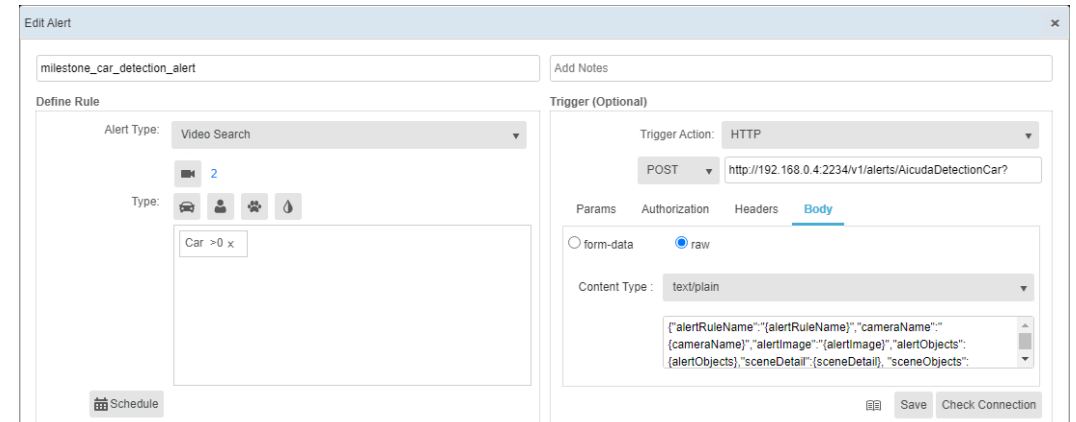
altImgUrl = {alertImageMetadataUrl}

tag = The name of the object you like to highlight in overlay

In the Post body, please specify below placeholders combination that required for XProtect Corporate to draw overlay on video.

```
{"alertRuleName":"{alertRuleName}","cameraName":"{cameraName}","alertImage":"{alertImage}","alertObjects":{"alertObjects"},"sceneDetail":{"sceneDetail"},"sceneObjects":{"sceneObjects}}
```

** In the URL for HTTP alert, the format is the same as “Image from Vaidio”



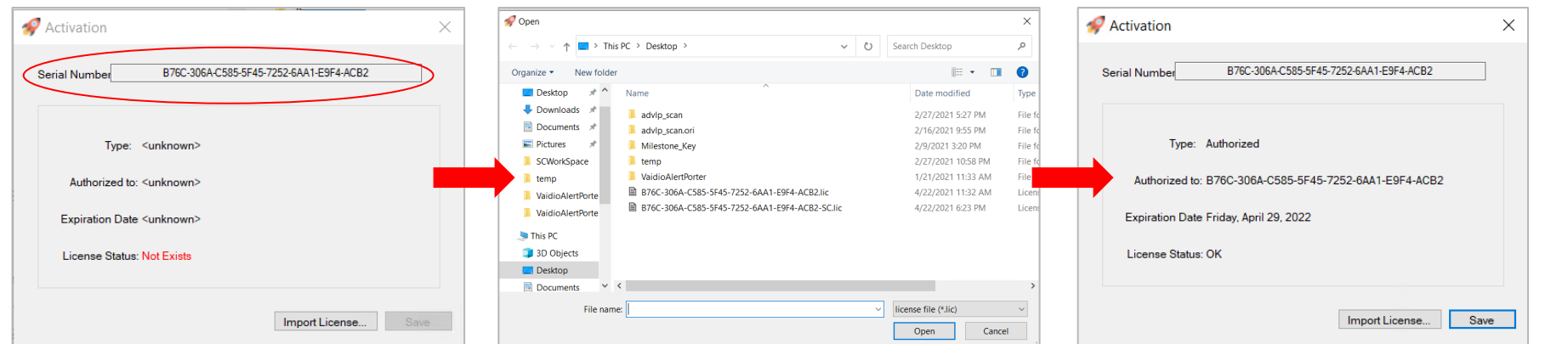
License - AlertPorter

3 levels of licenses

- **Free / Limited:** limited functions after installation, no expiration date. Only 5 alerts for one hour a day and limited to person search.
- **Trial:** 60 days full trial license after installation, available via info@vaibs.com or sales@ironyun.com. The trial license gives the customer the possibility to evaluate the Milestone plugin for a limited period of time.
- **Paid:** full functions for an unlimited period of time.

License Status: OK/Expired/Not Match/Invalid/Not Match Product (Plugin product mismatch)

** Select "Activation" to open the license dialog from the "Import License" tab. Copy the serial number information and send it to info@vaibs.com. or sales@ironyun.com to apply for the license. After receiving the license file the user can open the same dialog window to activate the license.



Note

- Please close the Alert Porter service manually in tray notification before removing or upgrading a license.
- The Alert Porter is installed on the server and works with Milestone Xprotect Corporate, XProtect Expert and XProtect Professional+.
- The system time among entities (VMS Server, VMS Client, Vaidio and Cameras) needs to be consistent with the same NTP source.
- The alert format of Vaidio **v4.2.1 and before** is different. The time format is {eventEpochTime}
<http://192.168.0.47:2234/v1/alerts/AicudaDetectionToyota?cn={cameraName}&t={cameraName}&t={eventEpochTime}&tag={LicensePlate}>



Vaidio Alert Porter Installation & Manual

VAIBS
VIDEO AI ANALYTICS