

VaidioSearchMgmt Installation & Manual

VIDEO AI ANALYTICS

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Preperations





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 - Topology, Flow And Components

- Install Milestone XProtect Corporate or XProtect Expert in 2020R3 on x64 Windows 10 platform.
- Standalone or distributed XProtect Smart Client 2020R3 is tested with Vaidio v4.2.1 and after.
- Both Vaidio and VMS need to have access to the camera stream.

	Milestone XProtect® Smart Client 2020 R3	Milestone XProtect® Management Client 2020 R3
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XA	Remember password	Remember password
X/X///	Auto-login	
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Installation Guide





Installation & Verification

- A base Milestone VMS installation on XProtect Corporate or XProtect Expert platform in Windows 10 w/ x64. Tested in version 2020R3 20.3a (64 bits)
- 2. Download the plugin from the <u>download link</u> and copy it in the **Xprotect Smart Client** folder on the client PC. You have the option to click "cancel" or "next" in the installation process. Installation folder and Xprotect Smart Client folders are fixed and cannot be redirected.

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	🔒 VaidioSearchMgmt	2/25/2021 5:24 PM	Adobe Acrobat D	685 KB	

1. Launch the downloaded installer "VaidioSearchMilestonePluginInstaller -x.x.x.x.exe"



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Plugin Verification

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** To verify if the	plugin is	properly loac	led in the		Copyright © Milestone Systems A/S - www.milestonesys.com Plug-in(s) and version information
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a. Run Xprotect section.	Smart Clie	ent and chec	k "About"		Vaidio Search v1.0.0.0 - Aicuda Technology
b. Check if "Vaid	io Manag	er vx.x.x.x" is	s listed.		
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Plugin Removal

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	Name	Publisher	Installed On	Size	Version			
	VaidioAlertPorterServerPlugin	Aicuda Inc.	4/23/2021	90.8 MB	1.0.6			
	VaidioSearchMgmt version 1.0.6.0	Aicuda, Inc.	4/22/2021	215 MB	1.0.6.0			



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Vaidio Manager - Management Page





Vaidio Manager - Management Page



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Vaidio Manager - Discover Automatically

Press the "Discover" button to scan the Vaidio services with default "Automatic" option.

The progress bar reflects the status of the scan process. User can wait until the scan is completed or press the "Stop" button.





Vaidio Manager - Discover Automatically

Once the scan is completed a message box pops up indicating that the Discovery process is completed.

Once the user hits the OK button, the scan result of all Vaidio analytics services are listed in a tree view.

Discovery

Managment





Vaidio Manager - Add URL / Host IP

Click the "Specify IP or Range" box and hit the "Discover Vaidio" button.

Add a specific URL in the "Specify IP or Range" box. The URL becomes visible in the tree view.

The URL is not able to connect if the network connection or service is not available.



Vaidio Manager - Discover IP Range

Click the "Specify IP or Range" box and hit the "Discover Vaidio" button.

Key in the IP and netmask to specify the scanning range and reduce the time of discovery. In the example on the right the scanning range is determined by the netmask.

The actual scan range is

192.168.0.1 ~ 192.168.0.127



Vaidio Manager - Remove Vaidio From List

Right click on one of the scan result in the tree view. Select "Delete" to remove the Vaidio service from the analytics service list.

** IP address in the list is automatically removed if the automatic scan is not able to find it. Exception: if the IP is a selected service or the user specifically added the IP in the "Specify IP or Range" box.

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Vaidio Manager - Specify Vaidio For Search

Right click on one of the analytics services in the tree view. Choose "Select". The selected analytics service is now going to push the analytics search results to the Xprotect Smart Client search function. The user can only select one analytics service at a time.

The default credentials will be loaded. User can change credentials manually.

The selected Vaidio analytics service is colored in yellow.



Vaidio Manager - Credentials For Vaidio

Right click on one of the analytics services in the tree view and select "Account Credentials".

A pop up window appears and the user is able to key in the access credentials for the selected Vaidio analytics service.





Vaidio Search - Camera Match

Automatic mapping of the camera for analytics and recording. Camera needs to be visible in both Milestone XProtect and Vaidio software.

- 1. Add the camera in the XProtect Management Client
- 2. Add the camera in Vaidio.
- 3. Important that the camera name need to be the same in Vaidio and XProtect software.

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* RTSP :	rtsp://admin:admin@192.168.0.61:554/Streaming/Chanr	
User Name :		
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TCP/UDP	Both	alle S
10.1001		
		Camera 01
NVR		
Select NVR :	Luxriot EVO v	
Channel ID :	105 ((Generic) ONVIF Compatible on 192.168.0.61) 🔻	
		G Cancel OK

Vaidio Search - Camera Match

Mapping is based on the camera name to manage the interaction between XProtect Management Client and Vaidio.

Avoid duplication of the camera name in Vaidio and XProtect Recording Server to prevent redundant search results.

** Similar RTSP URL for a different camera name can also cause redundant search.





Vaidio Search - Operation Sequence



(1) Press Xprotect Smart Client Search tab.

(2) Specify the date and time range.

(3) Select the cameras for the search
(** Please note that the selected camera must be added to Vaidio via
Vaidio GUI. Camera mapping is based on IP or RTSP).

(4) Via the Vaidio plugin it is possible to select Humans, Vehicles, Animals, Objects and Analytics Tags.

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Vaidio Search - Search Types & Options



(Continue from step 4 previous slide)

(A) Press "Search for" button to select Animals and the search option for Animals pops up.

(B) Specify the animal,the color and thequantity to search for.

(C) The XProtect Smart Client will automatically show the search results. The red bounding box highlights the target animal.

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Vaidio Search - Video Details Search Results



(D) Click on one of the search results windows to enlarge the video.

(E) The corresponding video footage is now visible in the video screen.

(F) Click on the video screen to enlarge the video at the detected time event.

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Vaidio Search - Enlarged Video Search



(F) To turn back to the standard view, double click the enlarged screen.



Video Search - Animals & Objects



- 1. Color: select the color of the animal or use Exclude option in the checkbox.
- 2. Count: select the number of animals to search for in one video frame.
- **3. Type**: select the animal type to search for.

** Bear, Cat, Cow, Dog and Horse are default options. For more options please contact Aicuda / IronYun sales team.

🗑 Objects	×
Object Color	
Any	•
Object Count	
Object Type	
Airplane	•

- 1. Color: select the color of the animal or use **Exclude** option in the checkbox.
- 2. Count: select the number of animals to search for in one video frame.
- **3. Type**: select the animal type to search for.

** Bear, Cat, Cow, Dog and Horse are default options. For more options please contact Aicuda / IronYun sales team.



Video Search - Humans & Vehicles



- 1. Color: select the color of the clothes to search for a specific human
- 2. Count : select the number of humans to search for in one video frame.
- **3. Face**: Search for human faces. Face picture: 40px * 40px.
- 4. **Gender**: search for male or female.
- 5. PPE: search for humans that wear and not wear Personal Protection Equipment.
 - ** Face recognition is not supported in the Milestone plugin so far. Please contact Aicuda / IronYun sales for support.



- 1. Color: select the color of a vehicle to search for a specific vehicle.
- 2. Count : select the number of vehicles to search for in one video frame.
- Vehicle LPR: search for a specific license plate number or search from a pre-defined list. (**created via Vaidio GUI)
- 4. Vehicle Model: select
- the make and model of a car to search for.
- 5. Vehicle type: select the specific vehicle type to search for.



Video Search - Analytic Tag



Click on "Search for" in the XProtect Smart Client and select "Analytics Tags". Type in the text to search for. In this example the keyed in text "2998" refers to a part of a license plate number. As a result all cars with license plate number "2998" pop-up.

The keyed in number appears in the placeholder of {LicensePlate} similar to the example below.

Example of Alert delivered to Milestone Alarm: http://192.168.0.47:2234/v1/alerts/Ai cudaDetectionToyota?cn={cameraN ame}&t={cameraName}&t={eventTi meStamp%E MMM d HH:mm:ss z yyyy}&tag={LicensePlate}

License - Search & Mgmt

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 with complete search plugin function.
- **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 <u>info@vaibs.com</u> or <u>sales@ironyun.com</u> to apply for the license. After receiving the license file the user can open the same dialog window to activate the license.

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	Setup 🥆 🔀
• 4:32:16 PM Thank you for using this trial license to demonstrate or evaluate the XProtect video management software. The trial license expires on 11/13/2021. To fully license the product, please contact your reseller or find one on https://www.milestonesys.com.	×
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Serial Number: B76C-306A-C585-5F45-7252-6AA1-E9F4-ACB2	
Type: Authorized	
Authorized to: B76C-306A-C585-5F45-7252-6AA1-E9F4-ACB2	
Expiration Date: Unlimited	
License Status: OK	Import License



Note

- Please close the XProtect Smart Client before removing or upgrading a license.
- The Search plugin is installed in the Client and works with Milestone Xprotect Corporate and XProtect Corporate.
- The system time among entities (VMS Server, VMS client, Vaidio and Cameras) needs to be consistent with the same NTP source.
- If a search takes much longer as normal, please reduce the time period or reduce the number of cameras.
- The alert format of Vaidio v4.2.1 and before is different. The time format is {eventEpochTime} <u>http://192.168.0.47:2234/v1/alerts/AicudaDetectionToyota?cn={cameraName}&t=</u>{cameraName}&t={eventEpochTime}&<u>tag={LicensePlate}</u>





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