# ZN-AIBOX-STD Integration Guide for Milestone XProtect VMS v1.0

## 1. Introduction

## 1.1 Prerequisites

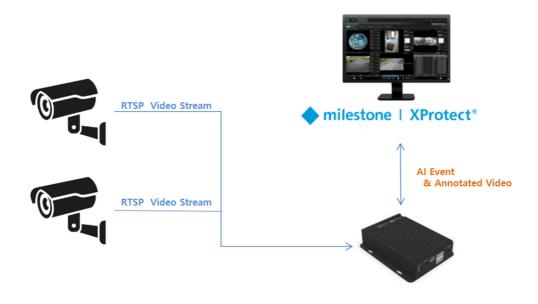
- $\cdot$  ZN-AIBOX-STD FW version 102801 or greater.
- Milestone XProtect 2023 R1 or greater.

1.2 Learn about integration architecture

There are two ways to integrate ZN-AIBOX-STD with Milestone XProtect VMS:

#### 1) Case 1:

The ZN-AIBOX-STD receives the RTSP video stream from the IPCAM and provides the an notated video and event data after AI analysis. The annotated video is transcoded to provide object recognition information, bounding boxes, zone information, and m ore from ZN-AIBOX-STD's AI analysis.



## 2) Case 2:

Both ZN-AIBOX-STD and Milestone XProtect VMS simultaneously receive the RTSP video stream from the IPCAM, and the ZN-AIBOX-STD sends the AI analysis events to XProte ct VMS. If the customer wishes, they can also receive the RTSP stream from Milesto ne XProtect VMS instead of the IPCAM's RTSP video stream.



## 2. Configuration

#### 2.1 Milestone xProtect VMS Configuration

We will explain how to integrate ZN-AIBOX-STD with Milestone XProtect VMS using th e Case1 method.

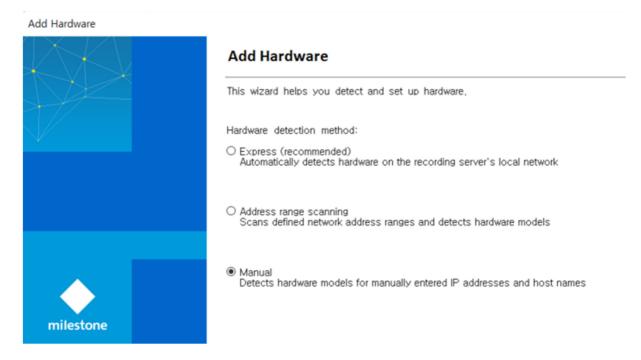
1) Adding the ZN-AIBOX-STD to Milestone XProtect VMS.

In the XProtect Management Client, select "Add Hardware".

File View Action Tools Help 🗟 🦻 🚱 🗢 🛱 Site Navigation # X Recording Server 🖃 🗭 DESKTOP-CBJG4GL - (23,2a) Filter 🖻 🛄 Basics Becording Servers 🔚 License Information DESKT 🔢 Site Information Expand 🖨 🔲 Servers 🖞 Recording Servers 🚽 🚵 Add Hardware... Ctrl+N શ Mobile Servers Move Hardware... 🖶 ኛ Devices 🗠 🗠 🗠 Delete All Hardware Microphones Rename Recording Server F2 Speakers 🕎 Metadata 🖳 Remove Recording Server do Input 💡 Output 2 Refresh F5 🖕 🖳 Člient 🛅 View Groups 🧔 Matri× 🖶 🚯 Rules and Events 🛅 Rules 🔞 Time Profiles Notification Profiles 😽 User-defined Events

Milestone XProtect Management Client 2023 R2

If you know the IP address of the ZN-AIBOX-STD device, choose "manual add". (Automatic search is also available.)



## Enter the login information for the ZN-AIBOX-STD.

dd Harc	dware		:
Optic	onally, specify additional user credent	tials to connect with if the hardware is not using the factory defaults.	milestone
Include	User name	Password	Add
	(Factory default)	••••••	
	admin	******	Remove
	ADMIN	••••••	
	ADMIN	•••••	
	Help	< Back Next >	Cancel

Select "ONVIF" from the device driver options.

Add Hardware	
Select which drivers to use when scanning for hardware. The more drivers selected, the slower the scanning.	
<ul> <li>Arecont</li> <li>AXIS</li> <li>Bosch</li> <li>Canon</li> <li>Hanwha</li> <li>HikVision</li> <li>HikVision</li> <li>Infinova</li> <li>Infinova</li> <li>INFINOVA</li> <li>INFINOVA</li> <li>INFINOVA</li> <li>Substance</li> <li>ONVIF</li> <li>Samsung</li> <li>Sony</li> </ul>	

Enter the IP address information of the ZN-AIBOX-STD. If you haven't changed the o nvif service port settings of ZN-AIBOX-STD, the Port is 80. HTTPS is not used. Add Hardware

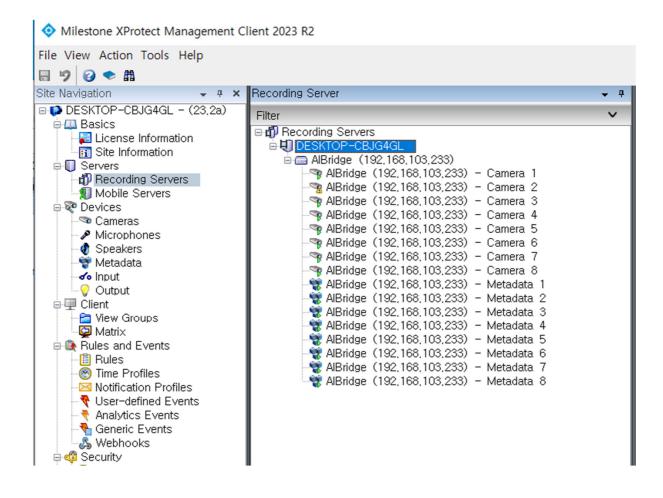
 

 Enter the network address and port of the hardware you want to add. Optionally, select the hardware model to speed up detection.

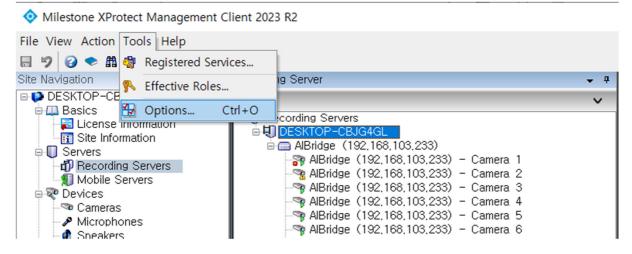
 Address
 Port
 Use HTTPS
 HTTPS port
 Hardware model

 192.168.103.233
 80
 443
 (Auto-detect)

Add the detected ZN-AIBOX-STD hardware and change the name as desired. If this fa ils, recheck the setup and try again.



- 2) Enable the XProtect analytics events
- Click on the Tools > Options menu in the XProtect Management Client.

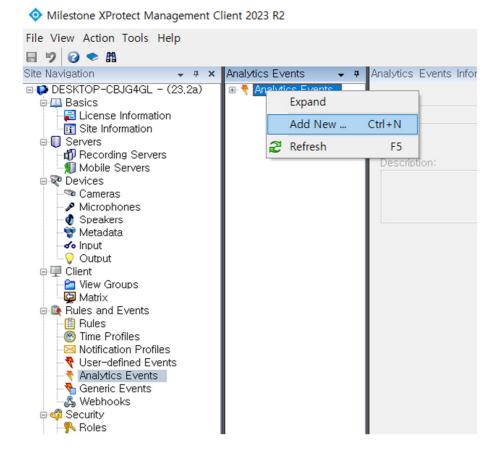


In the Analytics Event tab, check the **Enabled** checkbox. The service port must be open in the firewall. If you change the service port, you must enter the same por t number when registering the ZN-AIBOX-STD's Milestone action handler.

Options					×
External ID	P Audio Messages	Privacy settings	Access Control Settings	Analytics Events	Customer Dashboa < 🔸
Analytics					
	allowed from:				
All ne	etwork addresses				
O Spec	ified network addresse:	s:			
	Address				
•					
	Import				
	Help			OK	Cancel

3) Add analytics events and alarm definitions.

In the XProtect Management Client, select "Analytics events" from the left panel, right-click, and choose "Add New".



Enter the event name as "ZN-AIBOX-STD Event". This value is an essential key for distinguishing events between ZN-AIBOX-STD and XProtect. It must be entered in the "Message key" property in the Milestone Action handler settings of ZN-AIBOX-STD.

Milestone XProtect Management Client 2023 R2								
File View Action Tools Help								
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Site Navigation 🔍 👻 🤻 🗙	Analytics Events 💿 👻 🔻	Analytics Events Information						
■ DESKTOP-CBJG4GL - (23,2a)	Analytics Events           AlBridge Event	Name:						
- 🔁 License Information		AlBridge Event						
Site Information								
■ U Servers I Recording Servers								
Mobile Servers		Description:						
🕫 😵 Devices								
Microphones								
- 🔮 Speakers 								
o Input								
- Q Output								
👳 💷 Client								
📔 View Groups								

In the XProtect Management Client, add "Alarm definitions".

Select "Analytics Events" for the Trigger Event item, and choose the "ZN-AIBOX -STD Event" you added earlier. For the Trigger Source item, add the channel of th e ZN-AIBOX-STD.

Note: When registering the Trigger Source, if you add the IPCAM channel instead of the ZN-AIBOX-STD camera channel, it operates as the Case2 integration type.

Alarm Definitions 🛛 👻 👎	Alarm Definition	Information				
🖃 🧏 Alarm Definitions	Alarm definition					
- 🧏 AlBridge Alarm	Enable:					
	Name:		AlBridge Alar	m		
			riendae riida			
	Instructions:					^
						~
	Trigger		-			
	Triggering ever	nt:	Analytics Ev	ents		~
			AlBridge Eve	unt		U.
					÷	
	Sources:		8 items sele	cted		Select
	Activation perio	bd				
	<ul> <li>Time profile</li> </ul>	:	Always			~
	O Event bas					Select
		Select Sources				X Select
		Type filter: All	~			Select
	Мар					_
	Alarm manage	Groups Servers			Selected: AlBridge (192.168.103.233) - Camera 1	_
	Related map:	DESKTOP-CBJG4GL     DESKTOP-CBJG4GL			<ul> <li>AlBridge (192.168.103.233) - Camera 1</li> <li>AlBridge (192.168.103.233) - Camera 2</li> </ul>	~
	Operator actic	AlBridge (192.168.10	3.233) - Camera		AlBridge (192.168.103.233) - Camera 3	
	Time limit:	AlBridge (192.168.10)			AlBridge (192.168.103.233) - Camera 4 AlBridge (192.168.103.233) - Camera 5	
		AlBridge (192.168.10 AlBridge (192.168.10		Add	<ul> <li>AlBridge (192.168.103.233) - Camera 6</li> <li>AlBridge (192.168.103.233) - Camera 6</li> </ul>	
	Events trigger	AlBridge (192.168.10		Remove	AlBridge (192.168.103.233) - Camera 7	Select
	Other			AlBridge (192.168.103.233) - Camera 8		
	Related came	AlBridge (192.168.10 AlBridge (192.168.10				Select
	Initial alarm of		>>>>>>>>>>>			~
	Initial alarm or		,		1	

## 2.2 ZN-AIBOX-STD Configuration

## 1) Add Video Stream

Set (add) the video stream. You can add it either by conducting an Onvif device se arch or by directly adding the IPCAM RTSP stream address.

		CH 3	
		Attribute	
Video Input	~		
Video Stream		Channel Name	Office-Milestone
False Alarm Reduction	_	Video Source	
Display	<	URL	rten //102.168.102.222.//ive./main
Event Action List		UKL	rtsp://192.168.103.222/live/main
		Transport	TCP v
EM SETTINGS		HTTP(S) Port	0
Network	*	Authentication	
	<	Username	
License Management		Password	
SETTINGS		🕜 Video Type	Normal (Min.1280x720, M $ \smallsetminus $
Explore AI Apps			

#### 2) Set up the AI App

Select the desired AI App and set the AI event for the channel. In the Actions Setting, click the Add button to add the Milestone action handler.

VIDEO			Intrusion Detection - Rule Setting						
C	Video Input	<	Rule Name	Rule #6434					
	Display	<		d10a2533-8227-4554	I-8f30-c61be95dab11	D			
ę.	Event Action List								
SYSTI	EM SETTINGS		<ul> <li>Active</li> </ul>	$\bigcirc$					
<>	Network	<	Event Setting	Add					
¢	System	<		Video Event Type	Event Name	UUID	Operation		
õ	License Management			CH 3 Intrusion	Intrusion Detection	O	54 eft		
APP S	ETTINGS			Detection			C Ū		
000	Explore AI Apps		Action Setting	Add					
~	Active AI Apps	~		Action Type	Action Name		Operation		
*	Intrusion Detection			Action Type	Action Name		operation		
?∱	Loitering Person				-				
<b>∱</b> =	People Counting								

3) Enter the Milestone XProtect VMS Server Information

Enter the IP address of the Milestone XProtect VMS and the Analytic Event service port number. Then click the channel "Mapping" button.

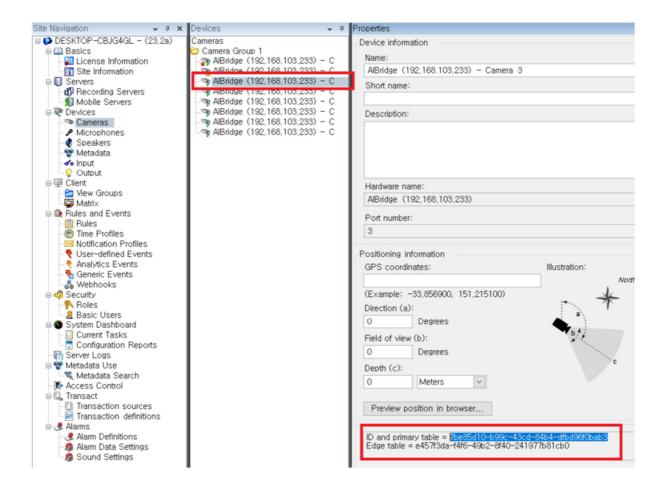
Milestone Action Setting					
	Action Preset Name	Milestone			
		2.168.103.199			
	Milestone Server Setup				
		Address         192.168.103.199           Veb Port         9090         ^           Japping         Mapping			
			Cancel	Submit	
	Vendor AlBri	dge			
	Test Event Test				
					Cancel Apply

Enter the Camera Channel ID of Milestone XProtect VMS.

Note: If you enter the IPCAM channel ID information instead of the ZN-AIBOX-STD ca mera channel ID in the camera mapping information, it operates as the Case2 integr ation type.

Channel Mapping		
1 CH	747dbad9-8bf7-4f47-b91e-6066e0c27d16	
2 CH	Milestone Source	
3 CH	7be85d10-b99c-43cd-84b4-dfbd96f0bab3	
4 CH	Milestone Source	
5 CH	Milestone Source	
6 CH	Milestone Source	
7 CH	Milestone Source	
8 CH	Milestone Source	
	a	ose

You can find the UUID for the Camera Channel ID by selecting the channel with the mouse while holding down the CTRL key and then looking at the bottom of the info t ab.



For the "Message Key" property, input the name of the "Analytic Event" that you ad ded in Milestone XProtect. In this guide, we have entered it as "ZN-AIBOX-STD Eve nt".

Milestone Action Setting							
Action Preset	Action Preset Name Milestone						
Milestone XProtect	• 192	.168.103.199					
	Web Po	rt   9090					
	Only one	Milestone server can be used.					
Message key	AlBrid	ge Event					
Object	CH{{cl	n}} - {{event_name}} - {{utc_timesta	Set				
Location	office						
Vendor	AlBrid	ge					
Test Event	Test						

The Object field can be utilized in various ways. You can enter event texts, LPR i nformation, etc., so you can send additional information in the Milestone XProtec t Alarm Manager.

Object			Object					
String Construction	Use template ^	Use	String Construction	Simple LPR msg template V				
	Simple msg template	Add		Select to add tokens $\checkmark$ Add				
Editable Box	Simple msg template(Json) Basic Object msg template Object msg template(Json) Simple LPR msg template	1P}}	Editable Box	([LIST OBJECTS[PARAM=COMMA]]) ([::08](LP_TEXT_DETECTED]))([LIST OBJECTS[PARAM=COMMA]])				
Message Example	Basic LPR msg template LPR msg template(Json) 	456	Message Example	DR161AR, FR809XE				

Note: If you want to set the Object property differently for each AI App, you can create a separate Milestone Action handler for each AI App.

By pressing the "Test" button, you can check the Test Event in the Milestone XProt ect Client.

() 오후 3:55:20 Cannot show bound	ling boxes. Check if your compu	uter's system time is correct. If th	he system time is n	ot the issue, contact yo	our system administrator.					
AlBridge (192.168.103.233	i) - Camera 3			- A	IBridge (192.168.103.23	3) - Camera	1 - 2023-	10-03 오후 3	:55:21.859	
Intrusion: 10			Pallen Person: 174							
				22579564 <sup>-</sup>	오후 3:30 오후 3:40	◀ ◀ 2023-	10-03	오후 3:55:22.4	432 <b>   </b> ▶	<u>ع</u> ة
Quick Filters	Alarms New (filter applie	d) 💙 Clear filter							Reports	
<b>T</b> New (14)	! Time <del>√</del>	Priority Level State Level	State Name	Message	Source		Vendor	Location	Туре	Object
▼ In progress (0)	으후 3:54:58 2023-10	1 1	New	AlBridge Event	AlBridge (192.168.103.233)	53786	AlBridge	office		CH1 16963
Y On hold (6) Y Clased (6)										

If the event test is successful, check the "Activate Milestone action handler" che ckbox and press the "Apply" button to save the handler settings.

Action Setting				
	Action Type	Milestone	~	
	Check the target acti You need to choose Milestone Action A			
	Na	me	Operation	
	Mil	estone	o c ů	
				Cancel Apply

Finally, press the "Submit" button located at the bottom of the AI App settings to save all configurations.

ŝ	System	٢
õ	License Management	
APP S	ETTINGS	
000	Explore AI Apps	
	Active AI Apps	
*	Intrusion Detection	
²ħ	Loitering Person	
<b>∱</b> =	People Counting	

## 3. Demo

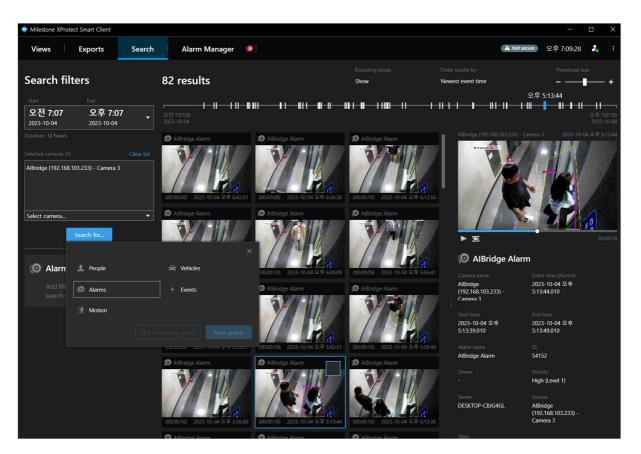
#### 3.1 Live

In the Live screen of the XProtect Smart Client, the analytics events will be list ed within the Alarms panel as well as the annotated video.

	Client										
Views Expo	orts Search	Alarm Manag	er 🕼					A Not secure	오후 7:03:	23 🐣	•
• New View (1 + 2*)	~ 5	5							· @ T	Setup	р
	(2 2 2 2) - Camera 3				AlBridge (192,168,103,233) -	Camera 3 - 2023-10-04 오후 6:3	6:37.434				
Intrusion: 8						Ision: 81				/	
			J. C.		, , , , , , , , , , , , , , , , , , ,	500.			<b>#?</b>		
ck Filters	Alarms Custorn (filter	applied) × Clear	filter	]	· · · · · · · ·				Reports	1-2	20
	Alarms Custom (filter 1 Time +	applied)  Clear Priority Level Stat		Message	Source	ID Vendor	Location Ty	rpe Object	Reports	1-2	20
' New (362)		Priority Level Stat		Message AlBridge Event	Source AlBridge (192.168.103.233)				Reports		
' New (362) ' In progress (0)	! Time <del>√</del>	Priority Level Stat	le Level State Name			54182 AlBridge	office Int	trusion CH3 - Int		- 1696412	25
New (362) In progress (0) On hold (0)	! Time ♥ 필 오후 6:42:31 2023-	Priority Level Stat 10 1 1 10 1 1	te Level State Name New	AlBridge Event	AlBridge (192.168.103.233)	54182 AlBridge 54179 AlBridge	office Int office Int	trusion CH3 - Int trusion CH3 - Int	rusion Detection	- 1696412 - 1696412	25 21
New (362) In progress (0) On hold (0)	! Time ▼ 교 오후 6:42:31 2023- 교 오후 6:36:36 2023-	Priority Level         Start           10         1         1           10         1         1           10         1         1           10         1         1	te Level State Name New New	AlBridge Event AlBridge Event	AlBridge (192.168.103.233) AlBridge (192.168.103.233)	54182AlBridge54179AlBridge54174AlBridge	office Int office Int office Int	trusion CH3 - Int trusion CH3 - Int trusion CH3 - Int	rusion Detection	- 1696412 - 1696412 - 1696410	25 21 07
New (362) In progress (0) On hold (0)	!         Time →           도 오후 6.42:31 2023-           도 오후 6.36:36 2023-           도 후 6.12:56 2023-	Priority Level         Star           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1	te Level State Name New New New	AlBridge Event AlBridge Event AlBridge Event	AlBridge (192.168.103.233) AlBridge (192.168.103.233) AlBridge (192.168.103.233)	54182AlBridge54179AlBridge54174AlBridge54171AlBridge	office Int office Int office Int office Int	trusion CH3 - Int trusion CH3 - Int trusion CH3 - Int trusion CH3 - Int	rusion Detection rusion Detection rusion Detection	- 1696412 - 1696412 - 1696410 - 1696410	25 21 07 05
New (362) In progress (0) On hold (0)	1 Time 오후 6:42:31 2023- 으로 6:36:36 2023- 의 오후 6:12:56 2023- 의 오후 6:08:35 2023- 의 오후 6:08:35 2023-	Priority Level         Star           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1	te Level State Name New New New New	AlBridge Event AlBridge Event AlBridge Event AlBridge Event	AlBridge (192.168.103.233) AlBridge (192.168.103.233) AlBridge (192.168.103.233) AlBridge (192.168.103.233)	54182         AlBridge           54179         AlBridge           54174         AlBridge           54171         AlBridge           54171         AlBridge           54170         AlBridge	office Int office Int office Int office Int office Int	trusion CH3 - Int trusion CH3 - Int trusion CH3 - Int trusion CH3 - Int trusion CH3 - Int	rusion Detection rusion Detection rusion Detection rusion Detection	- 1696412 - 1696412 - 1696410 - 1696410 - 1696410	25 21 07 05
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<sup>1</sup> New (362) <sup>1</sup> In progress (0) <sup>2</sup> On hold (0) <sup>2</sup> Closed (0) ers	Image         Time         ↓           2         2         7         6         6         2         2         2         7         2         7         2         7         2         7         2         7         6         3         2         7         6         3         2         7         6         3         2         7         6         3         2         7         6         3         2         7         6         3         2         7         6         3         2         7         6         3         2         7         6         3         2         7         5         6         3         2         3         2         7         6         3         5         5         6         10         3         2         5         5         6         10         3 <td< td=""><td>Priority Level         Start           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1</td><td>te Level State Name New New New New New New</td><td>AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event</td><td>AlBridge (192 168 103 233) AlBridge (192 168 103 233)</td><td>54182         AlBridge           54179         AlBridge           54174         AlBridge           54171         AlBridge           54170         AlBridge           54170         AlBridge           54182         AlBridge           54165         AlBridge           54161         AlBridge</td><td>office Int office Int office Int office Int office Int office Int office Int</td><td>trusion CH3 - Int Irusion CH3 - Int</td><td>rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection</td><td>- 1696412 - 1696412 - 1696410 - 1696410 - 1696410 - 1696409 - 1696409 - 1696409</td><td>25 21 07 05 98 96</td></td<>	Priority Level         Start           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1	te Level State Name New New New New New New	AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event	AlBridge (192 168 103 233) AlBridge (192 168 103 233)	54182         AlBridge           54179         AlBridge           54174         AlBridge           54171         AlBridge           54170         AlBridge           54170         AlBridge           54182         AlBridge           54165         AlBridge           54161         AlBridge	office Int office Int office Int office Int office Int office Int office Int	trusion CH3 - Int Irusion CH3 - Int	rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection	- 1696412 - 1696412 - 1696410 - 1696410 - 1696410 - 1696409 - 1696409 - 1696409	25 21 07 05 98 96
<sup>r</sup> New (362) <sup>1</sup> In progress (0) <sup>2</sup> On hold (0) <sup>2</sup> Closed (0) ers	I         Time ▼           2         Q.∓ 6.42.31 2023.           3         Q.∓ 6.6036 2022.           3         Q.∓ 6.125 2023.           2         Q.∓ 6.1035 2022.           3         Q.∓ 6.1035 2023.           2         Q.∓ 6.1035 2023.           3         Q.∓ 6.1035 2023.           4         Q.∓ 5.451 2023.           2         Q.∓ 5.545 12023.           2         Q.∓ 5.545 12023.           2         Q.∓ 5.545 12023.	Priority Level         Star           0         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1	ke Level State Name Now Now Now Now Now Now Now Now	AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event	AlBridge (192 168 103 233) AlBridge (192 168 103 233)	54182         AlBridge           54179         AlBridge           54174         AlBridge           54171         AlBridge           54170         AlBridge           54170         AlBridge           54166         AlBridge           54165         AlBridge           54161         AlBridge           54163         AlBridge           54164         AlBridge	office Int office Int office Int office Int office Int office Int office Int office Int	trusion CH3 - Int trusion CH3 - Int	rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection	- 1696412 - 1696412 - 1696410 - 1696410 - 1696400 - 1696409 - 1696408 - 1696408	25 21 07 05 04 98 96 89 87
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New (362) In progress (0) On hold (0) Closed (0)	!         Time →	Priority         Priority         Status           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1           10         1         1	te Level State Name Now Now Now Now Now Now Now Now Now Now	AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event AlBridge Event	AlBridge (192 168 103 233) AlBridge (192 163 103 233) AlBridge (192 168 103 233)	54182         AlBridge           54179         AlBridge           54174         AlBridge           54170         AlBridge           54170         AlBridge           54170         AlBridge           54161         AlBridge           54161         AlBridge           54163         AlBridge           54164         AlBridge           54165         AlBridge           54158         AlBridge           54158         AlBridge           54152         AlBridge	office Int office Int office Int office Int office Int office Int office Int office Int office Int office Int	trusion CH3 - Int trusion CH3 - Int	rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection rusion Detection	- 1696412 - 1696412 - 1696410 - 1696410 - 1696400 - 1696400 - 1696400 - 1696400 - 1696400 - 1696400 - 1696400	25 21 07 05 98 96 89 87 86 72
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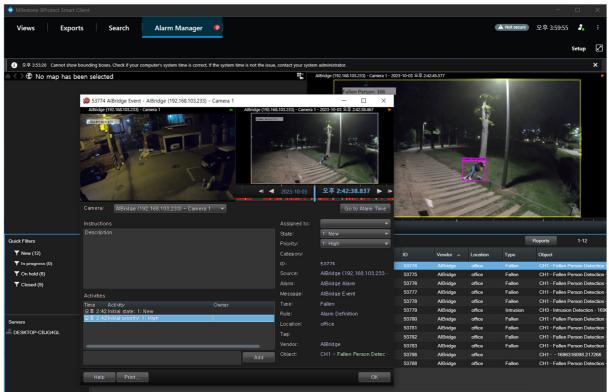
## 3.2 Search

In the search menu, click on the "Search for.." button and select Alarms to search for AI Events.



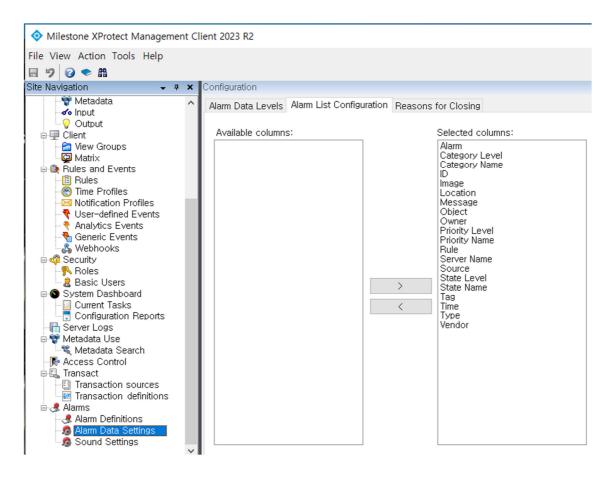
## 3.3 Alarm Manager

In the Alarm Manager, by clicking on an individual alarm, you can check detailed e vent occurrence information with recorded video.



Note: The Alarm Manager is supported in Milestone XProtect Express+ and higher ver sions.

To display analytic event properties in the Smart Client, you might need to adjust settings in the Management Client. First, navigate to "Alarms" and then to "Alarm Data Settings". From there, choose the event properties you want and transfer them from the left panel to the right.



To display the event properties in the Smart Client, right clicking on the event h eader and select the fields to display

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## 4. Revision History

v1.00 Initial document creation.