

Ganz Cortrol Integration Guide

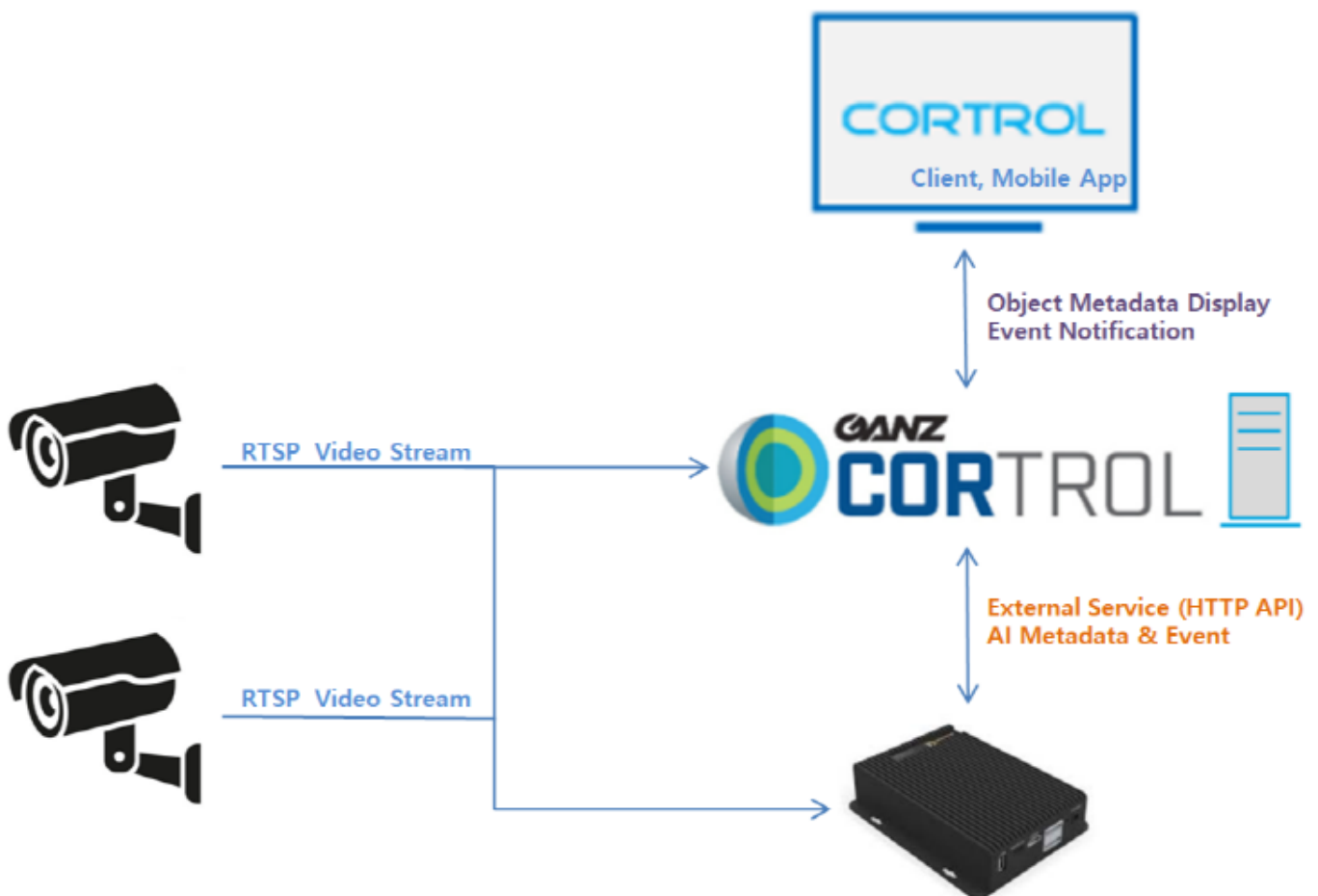
 Edit (<https://docs.edgedx.ai/wp-admin/post.php?post=4196&action=edit>)

1. Introduction

1.1 Prerequisites

- AlBridge FW version 101 24 or greater.
- Ganz Cortrol Premier/ Global VMS version 1.22 or greater.

1.2 Learn about integration architecture



IP Camera transmits video stream to Cortrol VMS and AlBridge.

AlBridge analyzes the received video stream by AI Apps and sends metadata & event to Cortrol VMS.

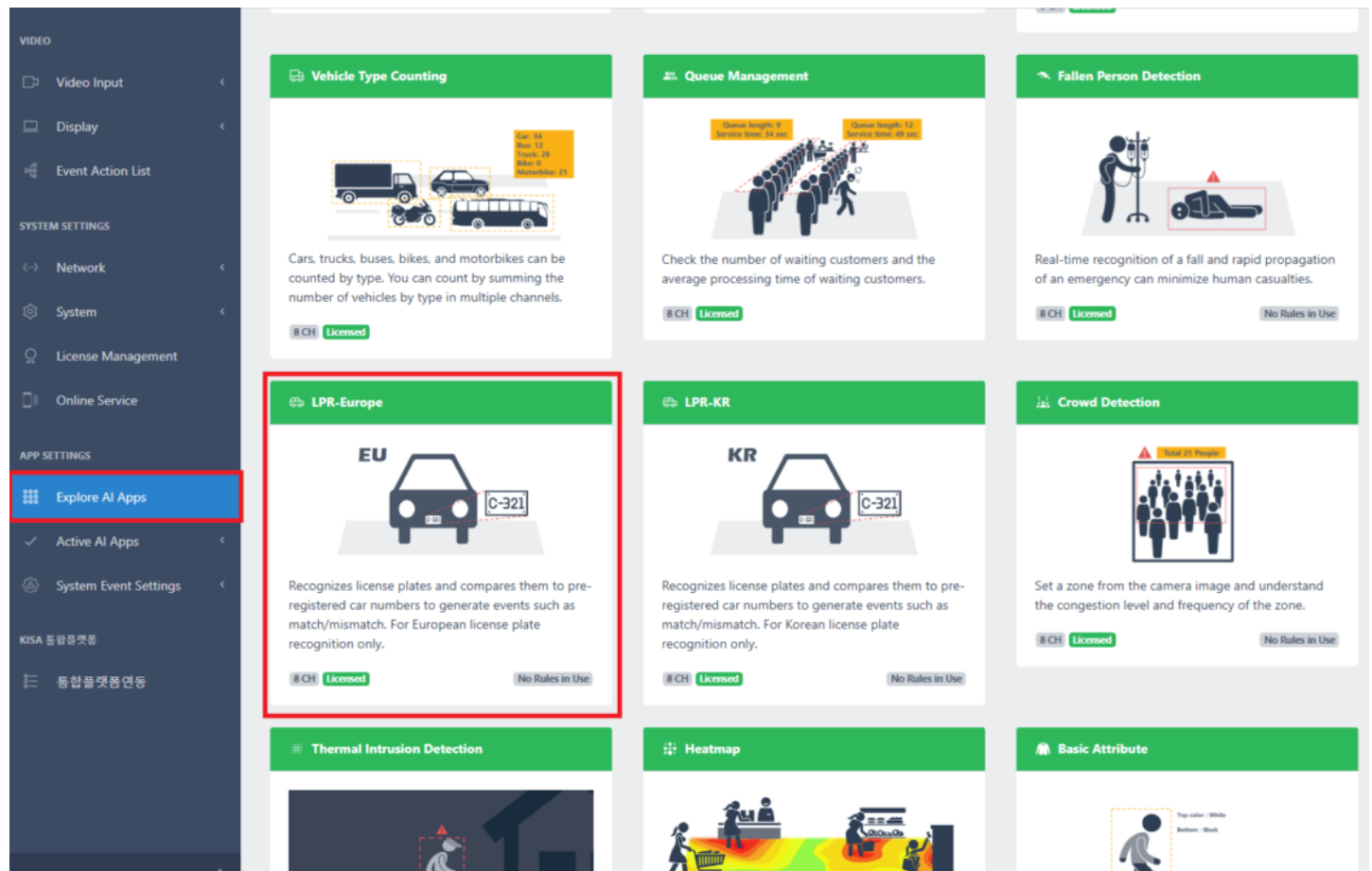
AlBridge responds to Control VMS's search requests.

2. Configuration

2.1 AlBridge Configuration

Add AI app settings. Select the desired app from Explore AI Apps.

(Although the guide document uses LPR as an example, you can register an action handler for all 50+ apps supported by AI Bridge.)



Click the “Add Rule” button.

LPR-Europe

Event-Action LP Management

LPR-Europe

License Status

Max Available Channels

Channels In Use

Max AI Consumption per CH

Total AI Resource Usage

Document

Licensed

8

1

2

3

4

5

6

7

8

432

204 / 4000

App Details

API Document

Event-Action Rules

+ Add Rule

Rule Name	Activation	UUID	Channels In Use	Operation
-----------	------------	------	-----------------	-----------

No items

Add Event Setting.

Crowd Detection - Rule Setting

Rule Name Rule #6487

 Active 

Event Setting 

Video	Event Type	Event Name	UUID	Operation
-				

Action Setting 

Action Type	Action Name	Operation
-		

Zone or detailed setting of AI App.

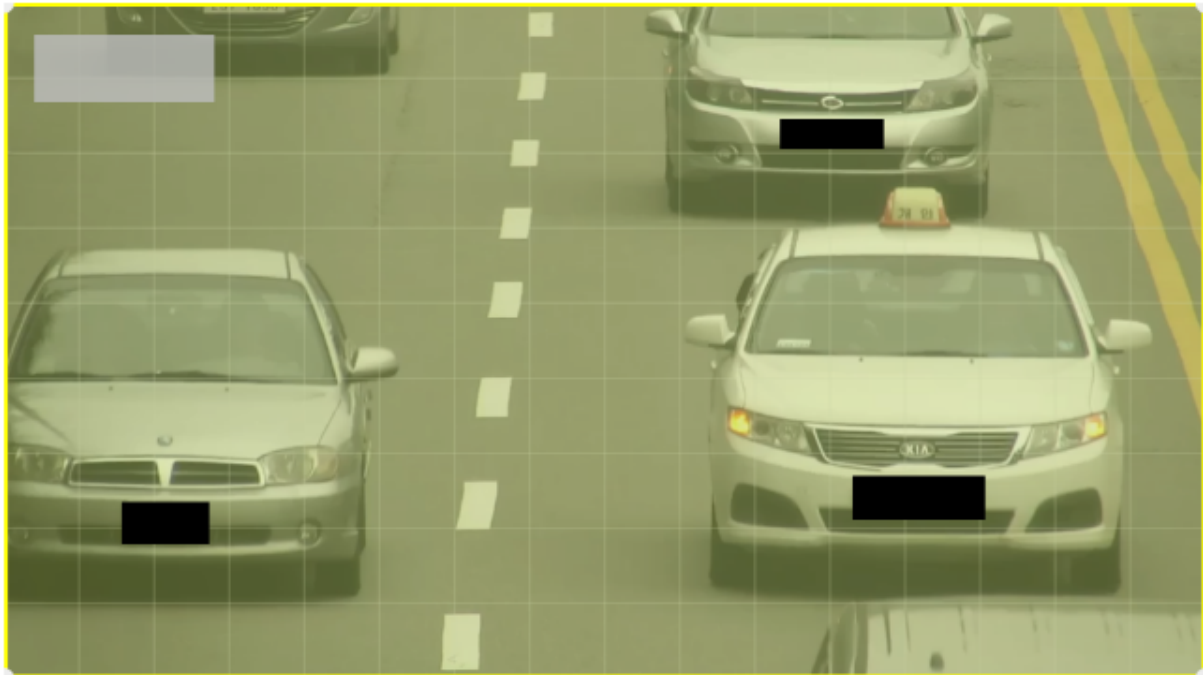
Event Setting

Event Type

LPR-KR

CH 2

Add New



Import Zone Settings

Select



Event Name

LPR-KR

Recognition Mode

Any LP Number

Group

Inherent To This Group

Add Control Plugin Action Setting.

Action Setting

Add

Action Type

Action Name

Operation

Select Cortrol Plugin.

Action Setting

Action Type

Select

VMS

NX Plugin

Cortrol Plugin

Milestone

Genetec

Avigilon

exacqVision

Cancel

Apply

Click the “Cortrol Plugin Action Add” button.

Action Setting

Action Type

Cortrol Plugin

Cortrol Plugin Action Add

Name	Operation
	-

Cancel

Apply

Click the “Edit” button.

Control Plugin Action Setting

Action Preset Name

Control Plugin

Server

Disconnected

Edit

Web Port | 8080

Only one server can be used.

Event Action Message

Set

Test Event

Test

Cancel

Apply

Enter the Cortrol VMS information (Server Address, Port number, Username, Password)
You can check if the Cortrol VMS settings are correct through the “**Login**” button.

Control Server Setup

IP Address

192.168.76.62

Connected

Web Port

8080

^

v

Username

admin

Password

.....

👁

Login

Use Recording Server

☐

Metadata Enabled

☒

Channel Mapping

Mapping

Create Cortrol External Service

Create

Cancel

Submit

Use Recording Server ☒

Recording Server IP Address

Recording Server Web Port

8080



Note. When “**Metadata Enable**” is enabled, AIBridge transmits object Metadata detected by AI to Control VMS. Please note that performance issues may occur if the AI app is installed in an environment where many objects are detected.

Note. If you are a Cortrol Global user and have registered the device using Cortrol Recording, please check ‘Use Recording Server and enter the ID and password. For the Cortrol Premier version, you do not need to check this option.

2.2 AIBridge Channel Mapping

Set up the relationship between the AIBridge channel and the channel of Cortrol VMS.

Press the “Mapping” button to open the settings pop-up window.

Control Server Setup

IP Address 192.168.76.62

Connected

Web Port 8080

Username admin

Password



Login

Use Recording Server ☐

Metadata Enabled ☒

Channel Mapping

Mapping

Create Control External Service

Create

Cancel

Submit

Channel Mapping

1 CH

Control Channel ID

Control Channel ID

Disconnected

2 CH

Control Channel ID

Control Channel ID

Disconnected

3 CH

Control Channel ID

Control Channel ID

Disconnected

4 CH

Control Channel ID

Control Channel ID

Disconnected

Cameras
update

Close

Cancel

Submit

Enter the **Recording identifier (UUID)** of the channel registered in Control VMS into AIBridge.

Recording identifier (UUID) can be obtained from the Details menu of Channel in Control Management Console.

←

→

Configuration > Channels

Configuration

Servers

Networks

External services

Failover clusters

Users

Devices

Channels

Recording

Maps

+ Create channel group

Edit

Assign main stream recordi

TITLE	DEVICE	SERVER	IP	PO...	ENAB...	N
test 1	test	전역 서버	192.168.77.182	80	enabl...	
test 2	test	전역 서버	192.168.77.182	80	enabl...	
test 3	test	전역 서버	192.168.77.182	80	enabl...	
test 4	test	전역 서버	192.168.77.182	80	enabl...	

 Details Members Membership Permissions Motion detector Video analytics Audio Inputs 1 Outputs* Channel configuration Video overlays Dewarp

Title

test 1

Channel title

Main stream recording configuration

none

Change...

Recording configuration assigned to the main video stream (includes supplementary streams by default)

Main stream storage

 Default

Change...

Target storage for the main stream recording

Substream recording configuration

none

Change...

Recording configuration assigned to the secondary video stream

Substream storage

 Default

Change...

Target storage for the substream recording

Record supplementary streams with substream

☐ Audio stream ☐ VCA stream ☐ Motion stream ☐ Data stream

If enabled, the selected data stream will be recorded with the substream instead of the main stream

Video lost time

15

Video timeout interval in seconds, after which the video loss event is triggered

☐ Passive mode

If enabled, server-device communication and video streaming will be paused until at least one client requests video

Recording identifier

FF6F33CD-37C1-441A-A53C-3489A2C819C2

Unique recording identifier of the current channel

Related items ▾

Apply

OK

Cancel

Channel Mapping

1 CH	FF6F33CD-37C1-441A-A53C-3489A2C819C2	test 1	Connected
2 CH	9E534C99-67EB-45BC-95BD-9A170F789171	test 2	Connected
3 CH	166A0FCD-0A80-41AF-A21B-C7B6027C5E2E	test 3	Connected
4 CH	Control Channel ID	test 4	Connected

Cameras update

Close

CancelSubmit

Enter the **Recording identifier (UUID)** and press the **“Cameras update”** button to check if it is entered correctly. If the channel is connected successfully, green Connected is displayed.

2.3 Create Cortrol External Service

Create an external service by clicking the **“Create”** button on AlBridge’s “Cortrol VMS Setup page”.

Control Server Setup

IP Address 192.168.76.62 Connected

Web Port 8080

Username admin

Password Login

Use Recording Server ☐

Metadata Enabled ☒

Channel Mapping Mapping

Create Control External Service Create

Cancel Submit

Note. Clicking Create will reset the Group mapping, so you will need to map it again. Rule settings and other configurations will not be reset.

Next, Create an External Service Group.

Ganz CORTROL Management Console - localhost:60554 - 전역 서버

Configuration > External services

Configuration

- Servers
- Networks
- External services
- Failover clusters

+ New external service group Edit

TITLE	GROUP	SERVER
AI Bridge-64:1c:10:1c:06:b2	none	

Enter the name of the new External Service Group as “AI Bridge”.

External service group AI Bridge*

External service group

Details*

Permissions

Details

Title

AI Bridge

External services group name

Ganz CORTROL Management Console - localhost:60554 - 전역 서버

← → Configuration > External services

Configuration

Servers

Networks

External services

Failover clusters

+ New external service group

Edit

TITLE	GROUP	SERVER
AI Bridge-64:1c:10:1c:06:b2	none	
AI Bridge		

Assign AIBridge to the new External Service Group.

External service AI Bridge-64:1c:10:1c:06:b2

External service

Details*

Events and actions

Related resources

Details

Title

AI Bridge-64:1c:10:1c:06:b2

External service title

Server

none

Server (if none is selected the external service will run on central server)

Group

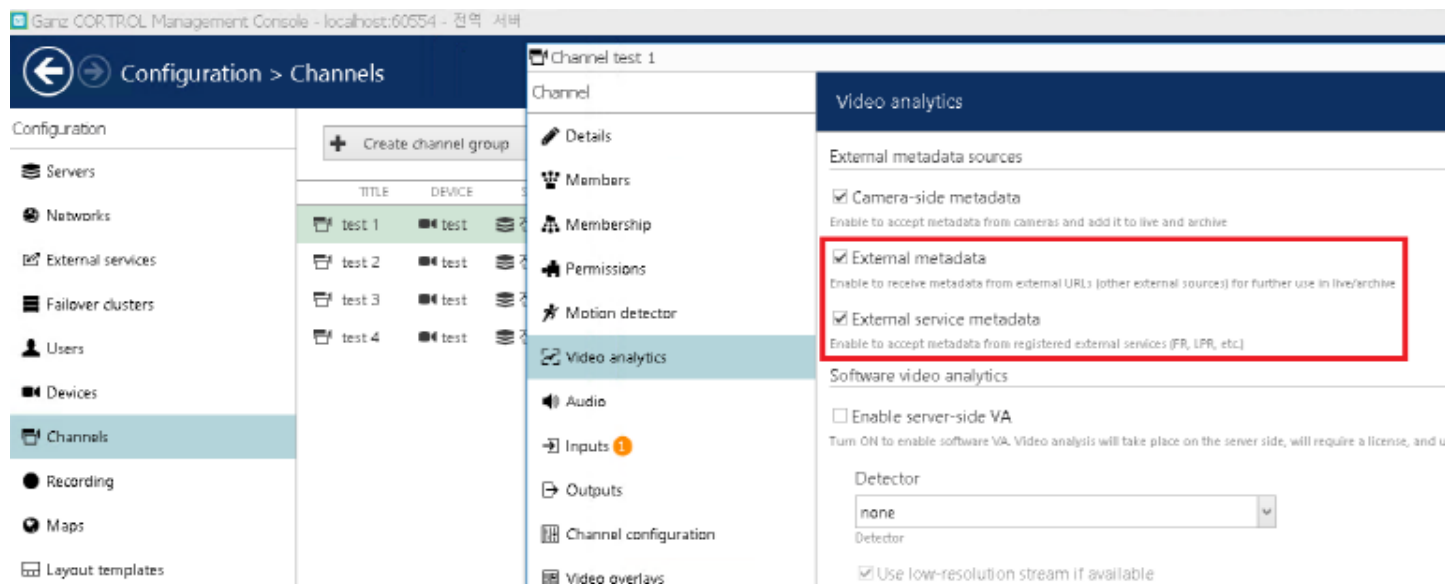
AI Bridge

Group to which the external service belongs

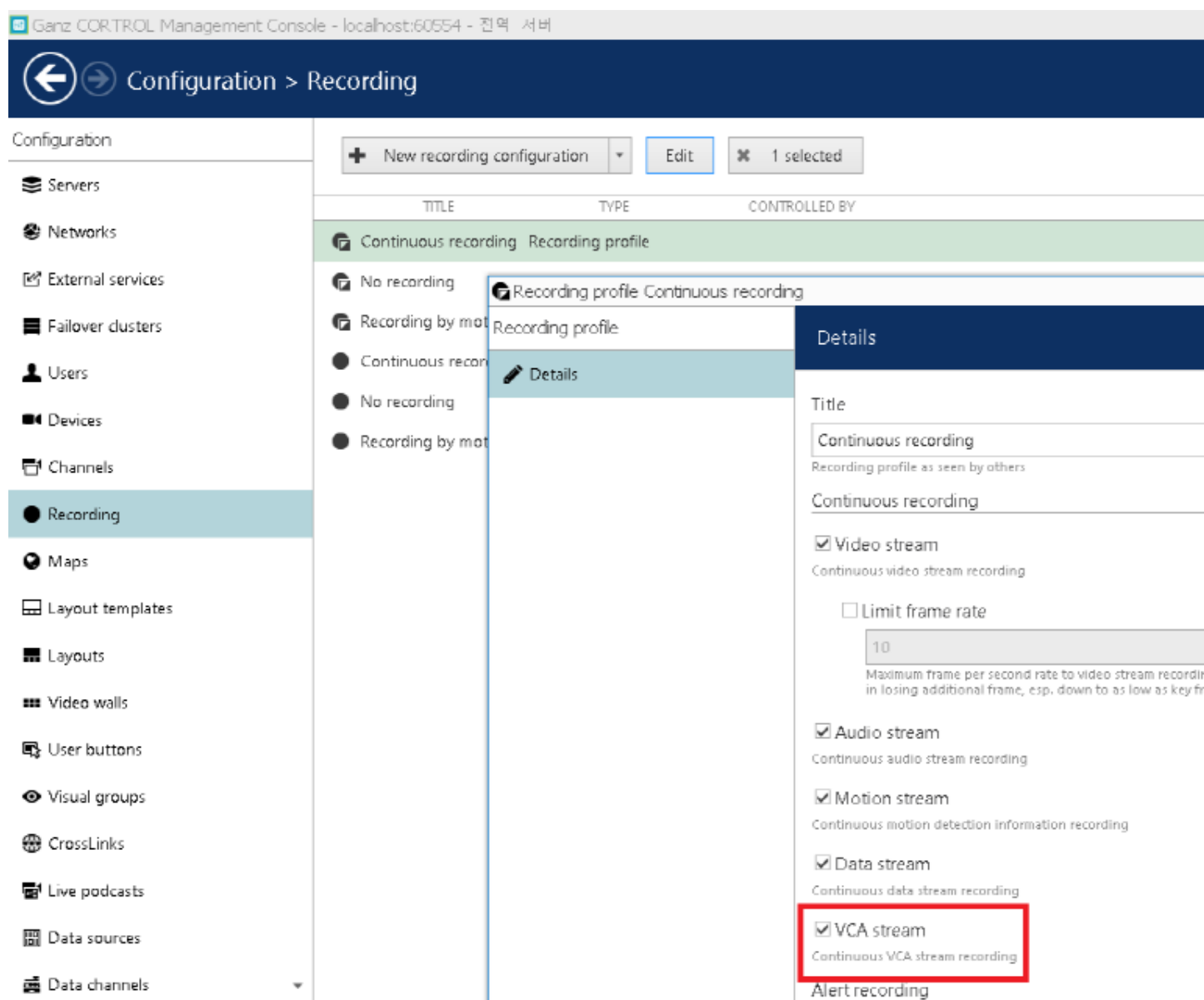
Change...

Change...

Note. If you are using the Cortrol Recording Server, please select the Cortrol Recording Server in the Server settings.



Note. To use the external service, you need to enable the external usage settings in every channel configuration. You need to configure this setting separately for each channel.



2.4 Set Event Action Message

With the Event Action message, you can configure the message format that is sent to Cortrol when an event occurs in AI Bridge. For example, you can add LPR information or counting data to the message, which can then be viewed in Cortrol.

When configuring the Event Action Message, there are two types of content types available: Text and Key-Value. In firmware versions prior to 13907, there is no option to select the content type, and it operates in Text mode. Since Text mode is not recommended for Cortrol compatibility, the manual describes the Key-Value method. To use Key-Value mode, please upgrade your firmware to version 13907 or higher.

Select “Key-Value” as the Content-Type and click the “Set” button to configure the Event Action Message. After choosing the desired string construction, click “Set Default” to configure the Event Action Message.

Control Plugin Action Setting

Action Type

Control Plugin

Action Preset Name

Control Plugin

Server

192.168.76.62

Connected

Edit

Web Port

8080

Username

admin

Only one server can be used.

Content-Type

Key-Value (Recommend)

String Construction

Basic Information + LPR

Set Defaults

Event Action Message

Event Name

=

{{event_name}}

LP Number

=

{{object_list}}{{object.lp_text}} {{obj

LP Note

=

{{object_list}}{{object.lp_note}} {{ot

LP Group Name

=

{{object_list}}{{object.lp_groups}} {

+ Add

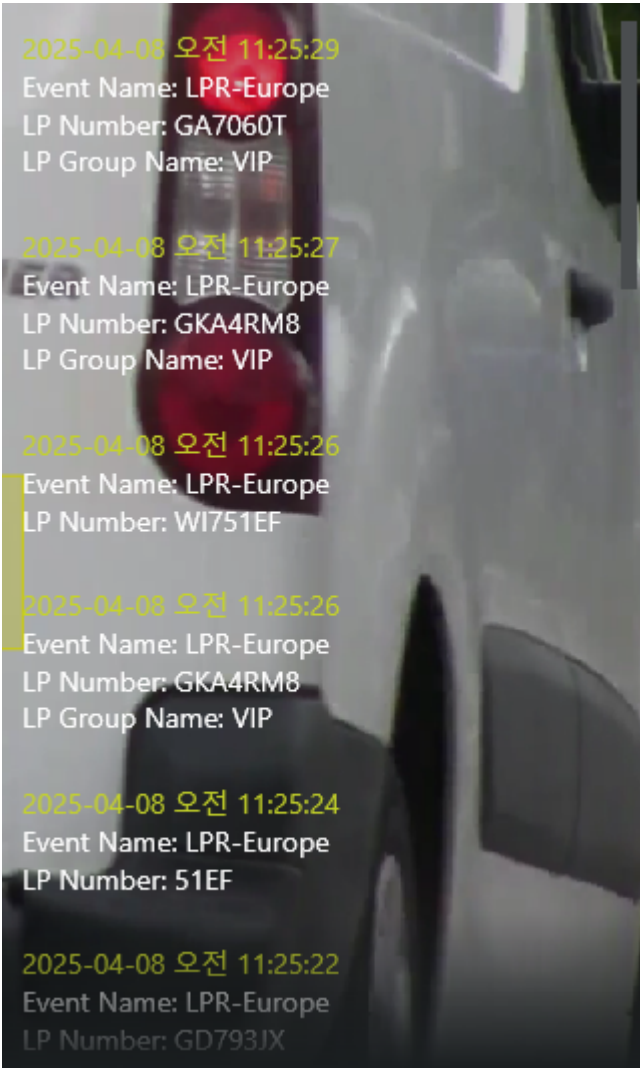
Test Event

Test

Cancel

Apply

Note. The key and value are displayed in Live as shown below. If there is no value, the key is not displayed.



Note. The key that is entered becomes a column in Control Search.

Search interval

2025-04-08 11:19:09 오전 > 2025-04-08 06:20:09 오후

Search in the specified time interval.

keyword

Search

TIME	CHANNEL	Event Name	LP Number	LP Note	LP Group Name
2025-04-08 오전 11:22:40	AI Bridge 1	LPR-Europe	GDAWE99		
2025-04-08 오전 11:22:40	AI Bridge 1	LPR-Europe	GD912FM		VIP
2025-04-08 오전 11:22:25	AI Bridge 1	LPR-Europe	GD951EW		
2025-04-08 오전 11:22:25	AI Bridge 1	LPR-Europe	GA1938W		
2025-04-08 오전 11:22:20	AI Bridge 1	LPR-Europe	GA7060T		VIP
2025-04-08 오전 11:22:15	AI Bridge 1	LPR-Europe	51EF		
2025-04-08 오전 11:22:15	AI Bridge 1	LPR-Europe	GKA4RM8		VIP
2025-04-08 오전 11:22:15	AI Bridge 1	LPR-Europe	A4RM8		

Then, click the “**OK**” button to save the Control Action settings.

Confirm

! If an action is changed, the change is applied to all rules using that action. Do you want to continue?

Cancel OK

If you see the device registered in the format “**AIBridge-MacAddress**” in the External Service tab of the Control Management Console, it’s OK.

2.5 Create Control Event & Rule

We need to configure the events, actions, and rules that will be sending notifications

Click the “**New Event**” button to add a new event.



Events Actions > Events

Events & Actions

Rules

Events

Actions

Global events

Conditions

Counters

OPC

Indicators

Variables

Tags

Subjects



New event

Edit

TITLE	EVENT TYPE	SOURCE	RESC
⚡ Central server connected	Central server connected		
⚡ Central server disconnected	Central server disconnected		
⚡ Disk excluding	Disk excluding		
⚡ External event 1	Channel external event		
⚡ External event 2	Channel external event		
⚡ External event 3	Channel external event		
⚡ Failover activating	Failover activating	전역 서버	
⚡ Fall-back activating	Fallback storage activating		
⚡ Global event	Global event		
⚡ Motion	Motion detected		
⚡ Motion started	Motion started		
⚡ Motion stopped	Motion stopped		
⚡ Recording error	Recoding error		
⚡ Recording recovered	Recoding recovered from error		
⚡ User button clicked	User button		
⚡ Video lost	Video lost		
⚡ Video restored	Video restored		

Select Event Type as **External Event – External Service**.

Select event type

Search

Available event types

Channel related (3)

Auxiliary device event

Event triggered by device (e.g., alarm panel, sensors, audio detectors, ...)

Digital input

Event triggered by device digital input (DI) state change

VCA event

Event triggered by device-side analytics or Open VCA rule

External events (5)

Event triggered by Modbus device

Event was triggered by a Modbus device

Event triggered by MQTT notification

Event was triggered by an incoming MQTT notification

External service

Event received from LPR, FR, or via HTTP API

External

URL trigger by event ID

OK

Cancel

Note. In the Target Event section, the events currently being used by AI Bridge are displayed. If you want to receive alarms for all events, “Event.”

Details

Event type

External service

Change...

Select event type from list of possible event types

Title

test 1 External service

Event name

Source

test 1

Change...

Event source

Service group

AI Bridge

Change...

Service group

Target event

Event

Target event

Create a rule by combining the created event type and action.

Server 전역 서버

Change...

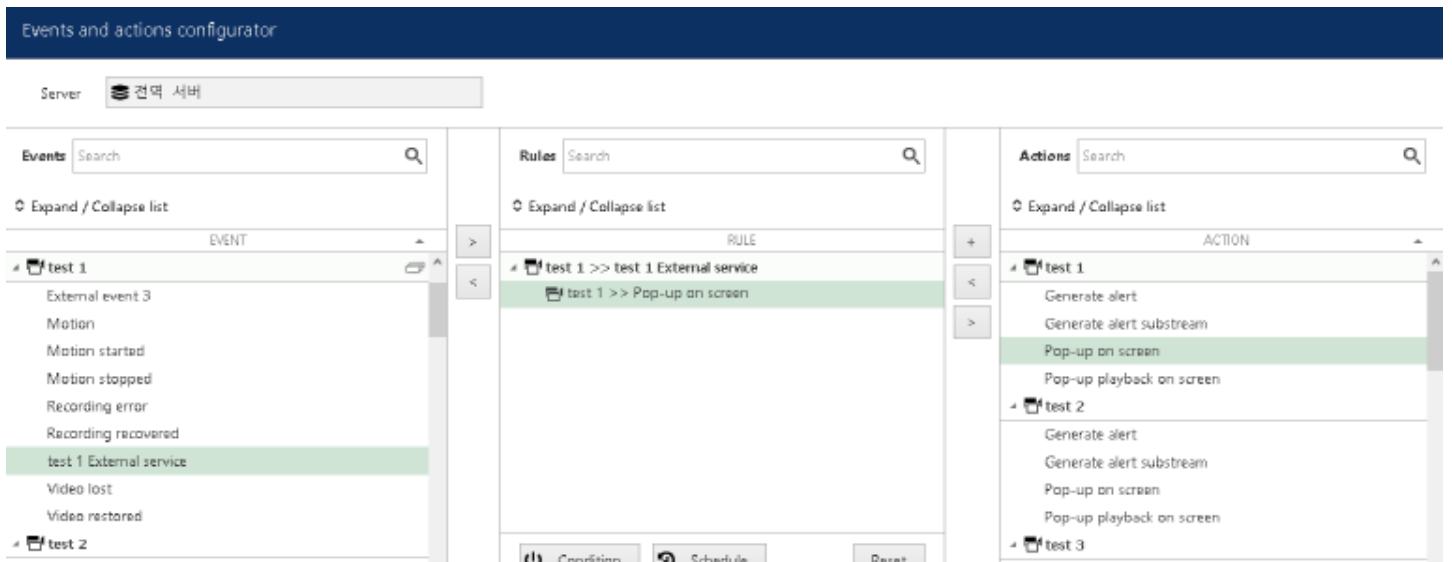
Open configurator

SOURCE

SOURCE TYPE

EVENT

EVEI



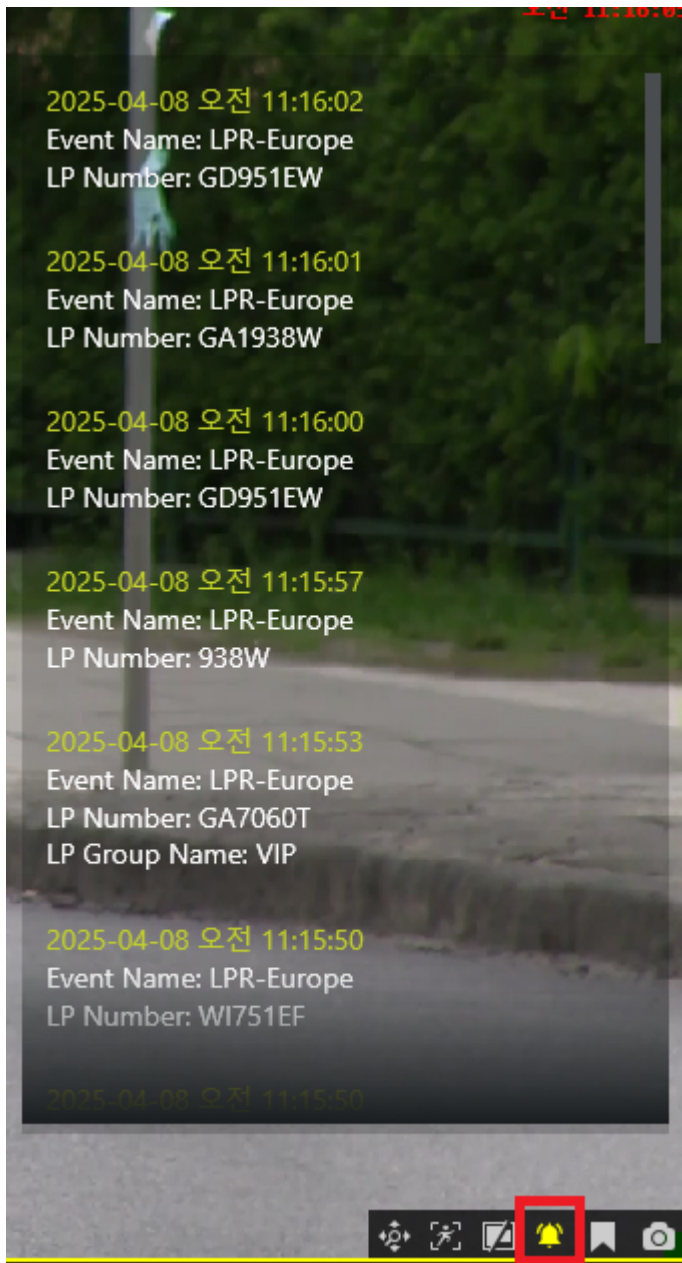
3. Demo

3.1 Live

Cortrol Client is configured to display metadata and alarms to verify that integration with AIBridge is working properly.

By clicking the bell icon at the bottom of the video, you can view the real-time Event Log on the live screen.





Note. In the Event Action Message, the key entered will be displayed along with its corresponding value. However, if there is no value, the key will not be displayed.

3.2 Search

Live

Playback

Sequence

Smart Search

Alerts

Library

Reports

AI Bridge

192.168.76.62

Connection (2 servers)

File

Edit

View

Tools

Help

Search

Channels

로컬 서버 (connected successfully)

AI Bridge

AI Bridge 1

Search interval

2025-04-08

11:19:09 오전

2025-04-08

06:20:09 오후

Search on the specified time interval

keyword

Search

TIME	CHANNELS	Event Name	LP Number	LP Note (LP Group Name)
2025-04-08 오전 11:22:40	AI Bridge 1	LPR-Europe	GD96999	
2025-04-08 오전 11:22:40	AI Bridge 1	LPR-Europe	GD912FM	VIP
2025-04-08 오전 11:22:25	AI Bridge 1	LPR-Europe	GD951EW	
2025-04-08 오전 11:22:25	AI Bridge 1	LPR-Europe	GA193BW	
2025-04-08 오전 11:22:20	AI Bridge 1	LPR-Europe	GA196GT	VIP
2025-04-08 오전 11:22:15	AI Bridge 1	LPR-Europe	51EF	
2025-04-08 오전 11:22:15	AI Bridge 1	LPR-Europe	GA489MS	VIP
2025-04-08 오전 11:22:15	AI Bridge 1	LPR-Europe	A48MS	
2025-04-08 오전 11:22:15	AI Bridge 1	LPR-Europe	W751H	
2025-04-08 오전 11:22:15	AI Bridge 1	LPR-Europe	GD793JK	
2025-04-08 오전 11:22:10	AI Bridge 1	LPR-Europe	GLE42HE	
2025-04-08 오전 11:22:05	AI Bridge 1	LPR-Europe	GD631EV	
2025-04-08 오전 11:22:05	AI Bridge 1	LPR-Europe	GW532L2	
2025-04-08 오전 11:21:59	AI Bridge 1	LPR-Europe	958M	
2025-04-08 오전 11:21:59	AI Bridge 1	LPR-Europe	C953	
2025-04-08 오전 11:21:54	AI Bridge 1	LPR-Europe	GD248AC	
2025-04-08 오전 11:21:54	AI Bridge 1	LPR-Europe	GD061H1	
2025-04-08 오전 11:21:49	AI Bridge 1	LPR-Europe	GD430ES	
2025-04-08 오전 11:21:49	AI Bridge 1	LPR-Europe	WW947KF	
2025-04-08 오전 11:21:44	AI Bridge 1	LPR-Europe	A4518V	
2025-04-08 오전 11:21:44	AI Bridge 1	LPR-Europe	82555390	
2025-04-08 오전 11:21:44	AI Bridge 1	LPR-Europe	4516V	
2025-04-08 오전 11:21:39	AI Bridge 1	LPR-Europe	GD409FS	
2025-04-08 오전 11:21:39	AI Bridge 1	LPR-Europe	GD203JK	
2025-04-08 오전 11:21:34	AI Bridge 1	LPR-Europe	GA2247H	

Note. In the Event Action Message, the entered key becomes a column, and the corresponding value is displayed in that column.

You can use keywords to search for LPR or attributes.

Search interval

2025-04-09

03:36:03 오후

>

2025-04-10

03:36:03 오후

Search in the specified time interval.

keyword

vip

Search

TIME	CHANNEL	Event Name	LP Number	LP Note	LP Group Name
2025-04-10 오전 2:29:01	AI Bridge 1	LPR-Europe	GA7060T		VIP
2025-04-10 오전 2:29:01	AI Bridge 1	LPR-Europe	A7060T		VIP
2025-04-10 오전 2:28:56	AI Bridge 1	LPR-Europe	GKA4RM8		VIP
2025-04-10 오전 2:27:45	AI Bridge 1	LPR-Europe	GD912FM		VIP
2025-04-10 오전 2:27:25	AI Bridge 1	LPR-Europe	GA7060T		VIP
2025-04-10 오전 2:27:20	AI Bridge 1	LPR-Europe	GKA4RM8		VIP
2025-04-10 오전 2:26:09	AI Bridge 1	LPR-Europe	GD912FM		VIP
2025-04-10 오전 2:25:49	AI Bridge 1	LPR-Europe	GA7060T		VIP
2025-04-10 오전 2:25:44	AI Bridge 1	LPR-Europe	GKA4RM8		VIP
2025-04-10 오전 2:24:32	AI Bridge 1	LPR-Europe	GD912FM		VIP
2025-04-10 오전 2:24:12	AI Bridge 1	LPR-Europe	GA7060T		VIP
2025-04-10 오전 2:24:12	AI Bridge 1	LPR-Europe	GKA4RM8		VIP
2025-04-10 오전 2:22:55	AI Bridge 1	LPR-Europe	GD912FM		VIP
2025-04-10 오전 2:22:40	AI Bridge 1	LPR-Europe	GA7060T		VIP

Note. You can search even if only part of the license plate matches, and the search is case-insensitive.

Note. Keywords are searched in the Value, not in the Key.

4. FAQ

4.1 Object Metadata Transfer Options

If this feature is turned OFF, ONVIF Metadata and the Metadata set in the Plugin will not be transmitted.

This applies to the overall operation of Metadata.

Object Metadata

Object Metadata Transfer Setting ⓘ

Mode

Channel	Event Objects Only ^	✓
1	All Objects	
2	Event Objects Only	
	No Transmission	
3	Event Objects Only v	
4	Event Objects Only v	

Ignore Static ☐ Static objects are not transmitted and are ignored.

Objects

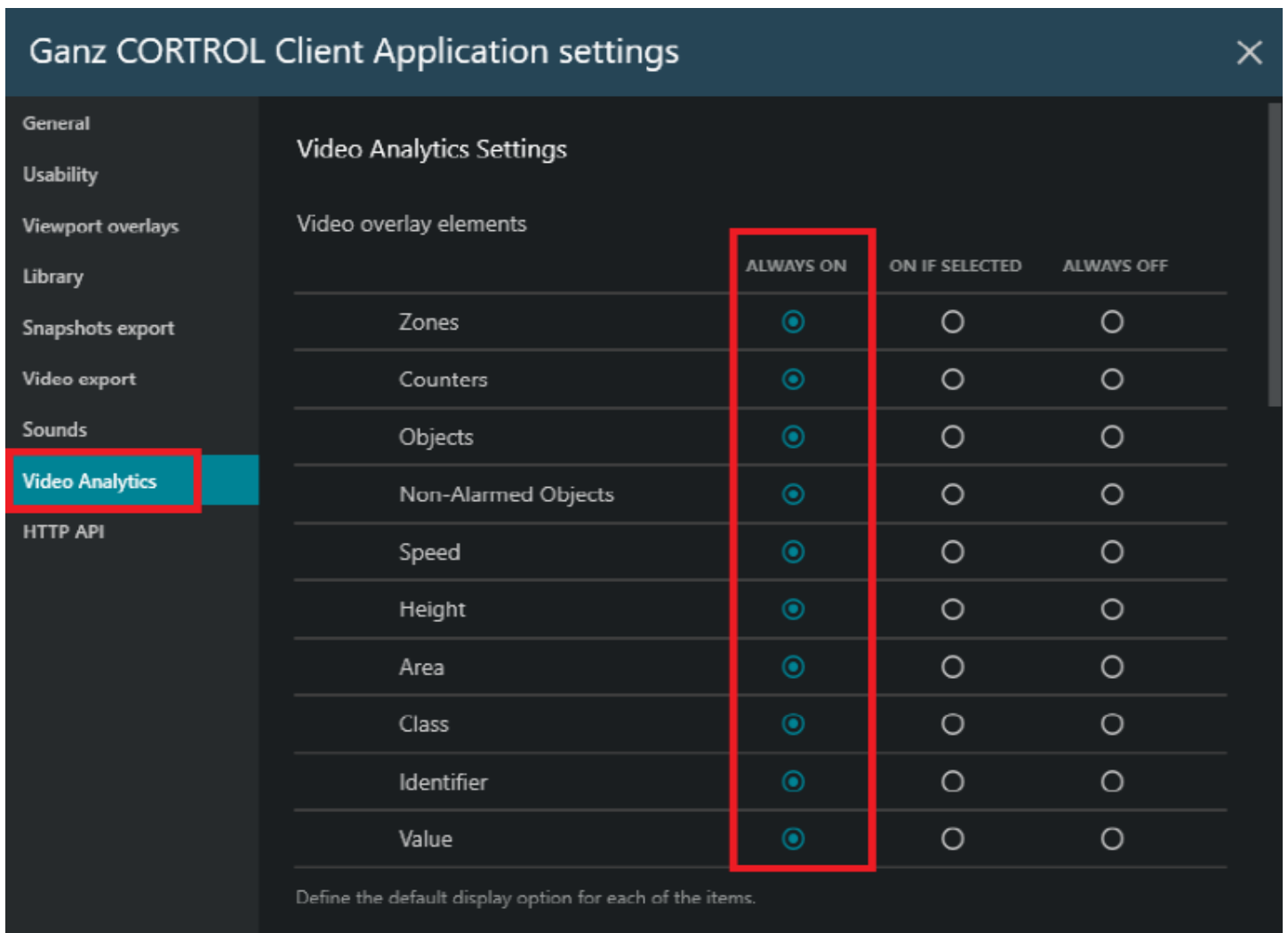
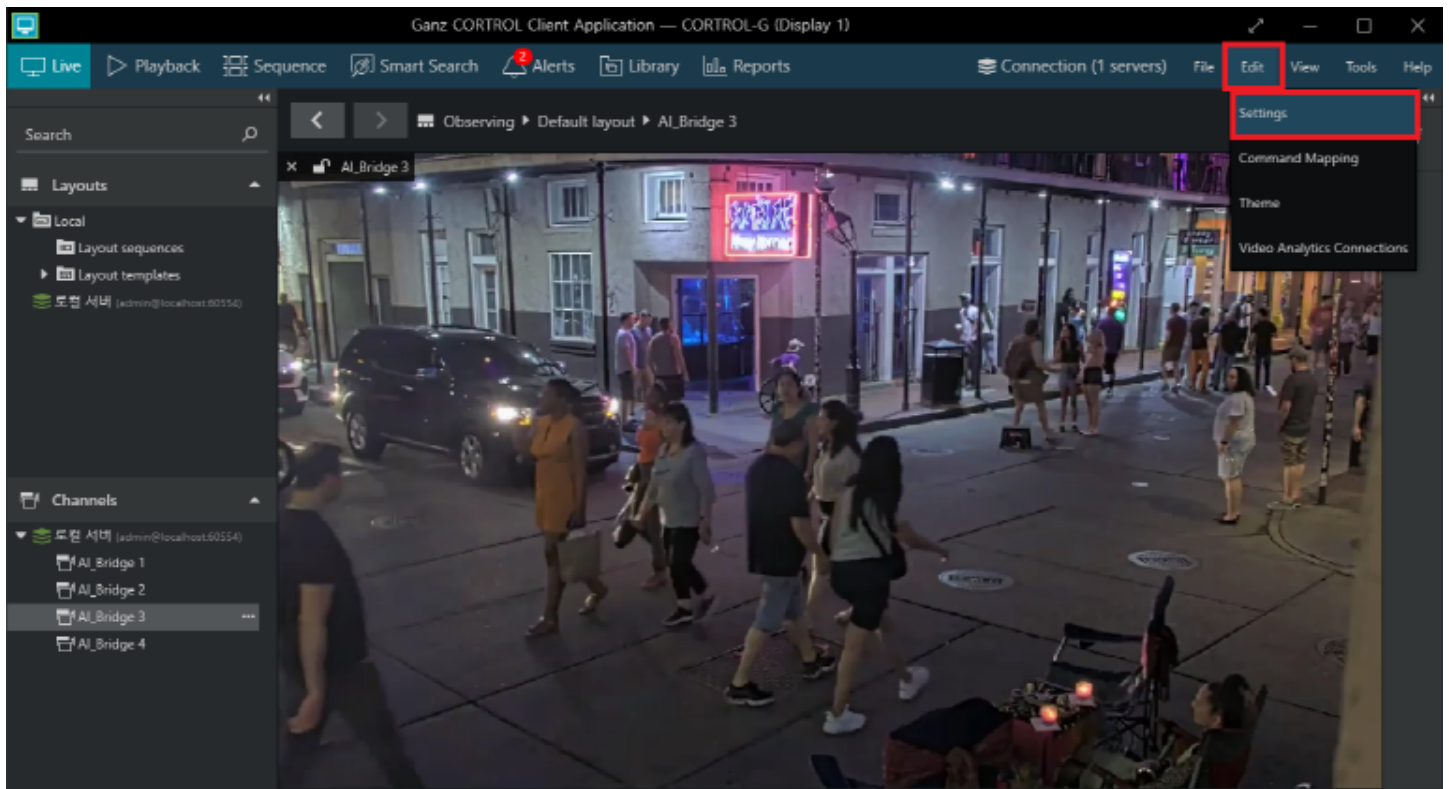
*To apply the changes, please click the "Apply" button below.

Cancel

Apply

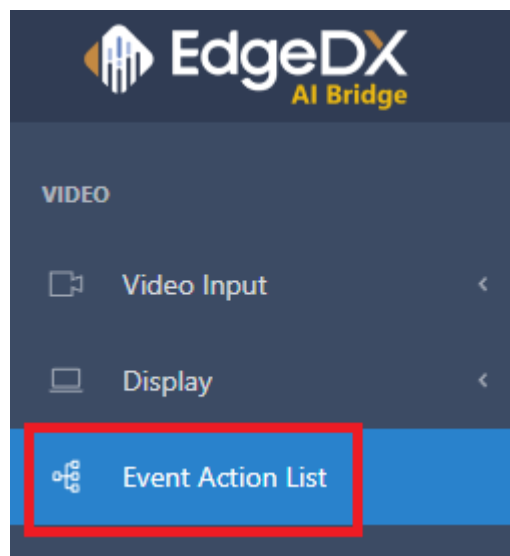
4.2 Cortrol Client Side Video Analytics Overlay Settings

If Video Analytics is not enabled in the Settings under Edit in the Cortrol Client Application, metadata may not function correctly. The default value is ON, so do not turn this feature off.

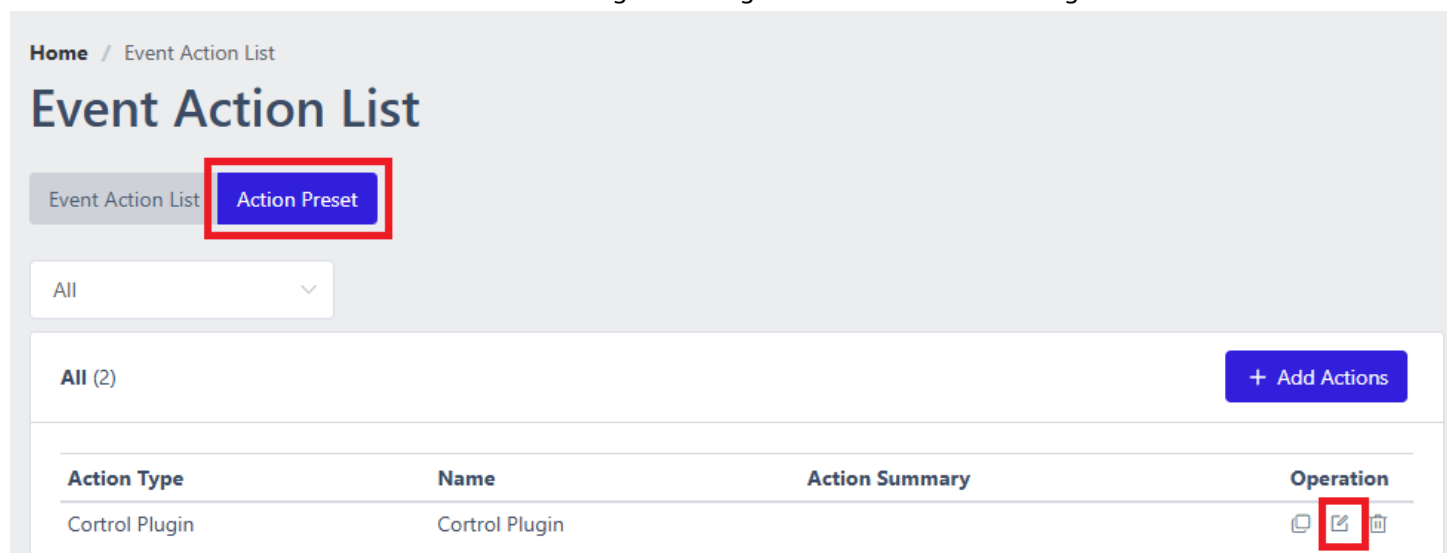


4.3 Check the connection between AI Bridge and Cortrol

Click on “Event Action List” under “VIDEO” in the AI Bridge webpage.



Enter “Action Preset” and click the Control Plugin settings button that was configured earlier.



If it is confirmed that you are connected to the Cortrol Server, click the “Test” button.

Control Plugin Action Setting

Action Type

Control Plugin

Action Preset Name

Control Plugin

Server

192.168.76.62

Connected

Edit

Web Port | 8080

Username | admin

Only one server can be used.

Event Action Message

Set

Test Event

Test

Cancel

Apply

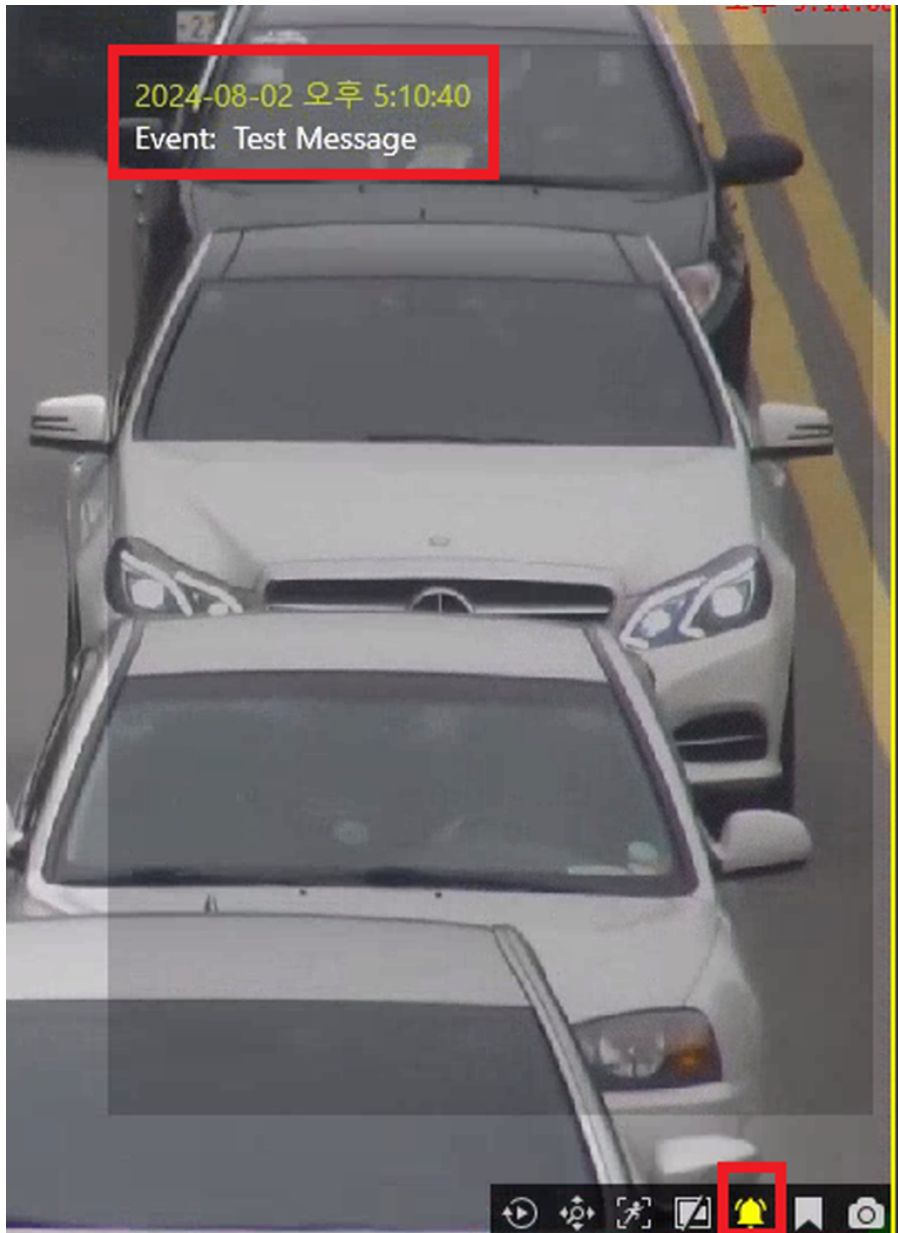
Note. Before clicking the TEST button, ensure that the green Connected button is visible on the Cortrol Server. If the gray Disconnected indicator is displayed, please check the server settings.

After clicking the “Test” button, if the message is successfully sent, a pop-up like the one below will appear.

✔

Test event sent. Please check event.

Now, go to Cortrol and check the alarm message.



5. Revision History

- v1.00 Initial document creation.
- v1.10 Update captured images, Adding FAQ(s)
- v1.20 Add images and supplement the content in section 2. Configuration.
- v1.30 Added content and updated images in section 2.1 AIBridge Configuration.
- v1.40 Event Action Message feature update.