



CORTROL Plug-in Integration Guide

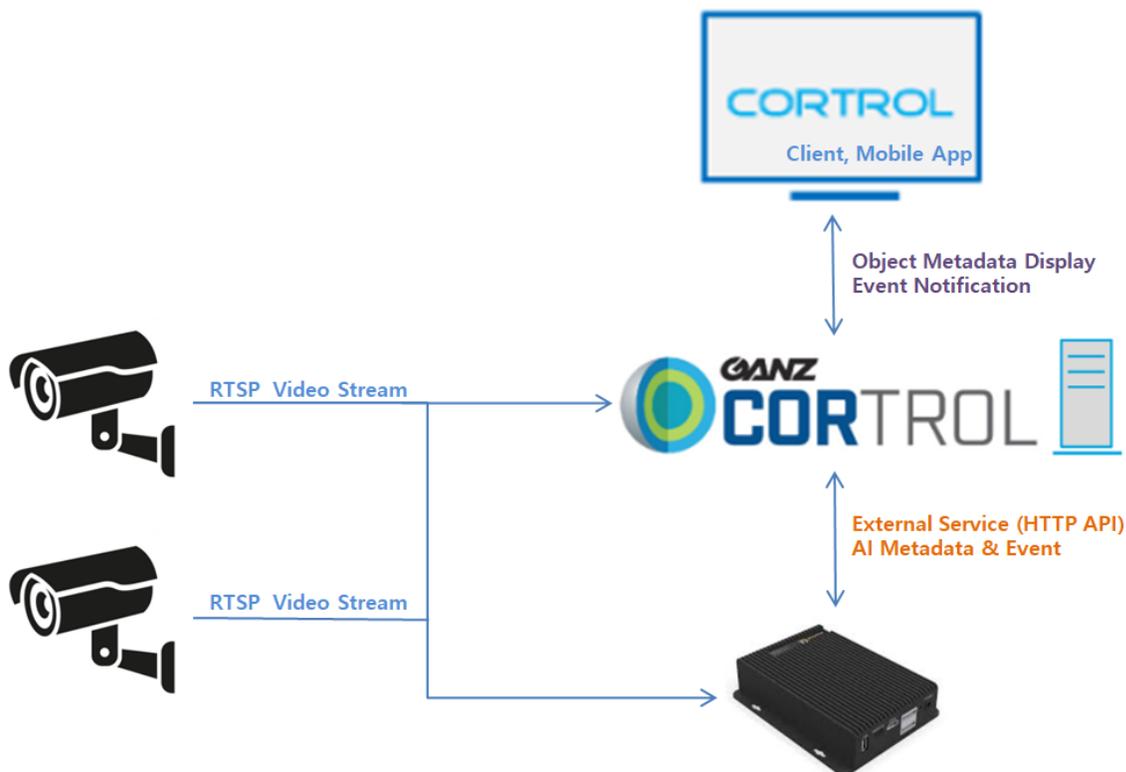
20230804 v1.0.1

1. Introduction

1.1 Prerequisites

- **AIBridge FW** version **10124** or greater.
- **Ganz Control Premier VMS** version **1.22** or greater.

1.2 Learn about integration architecture



- IP Camera transmits video stream to **Control VMS** and **AIBridge**.
- **AIBridge** analyzes the received video stream by AI Apps and sends **Metadata & Event** to **Control VMS**.
- **AIBridge** responds to **Control VMS**'s search requests.

2. Configuration

2.1 AIBridge Configuration

Add AI app settings.

The screenshot shows the CORTROL interface with a sidebar on the left containing menu items like System, License Management, Cloud Service, and Applications. The main content area is titled 'Application Info' and displays the following data:

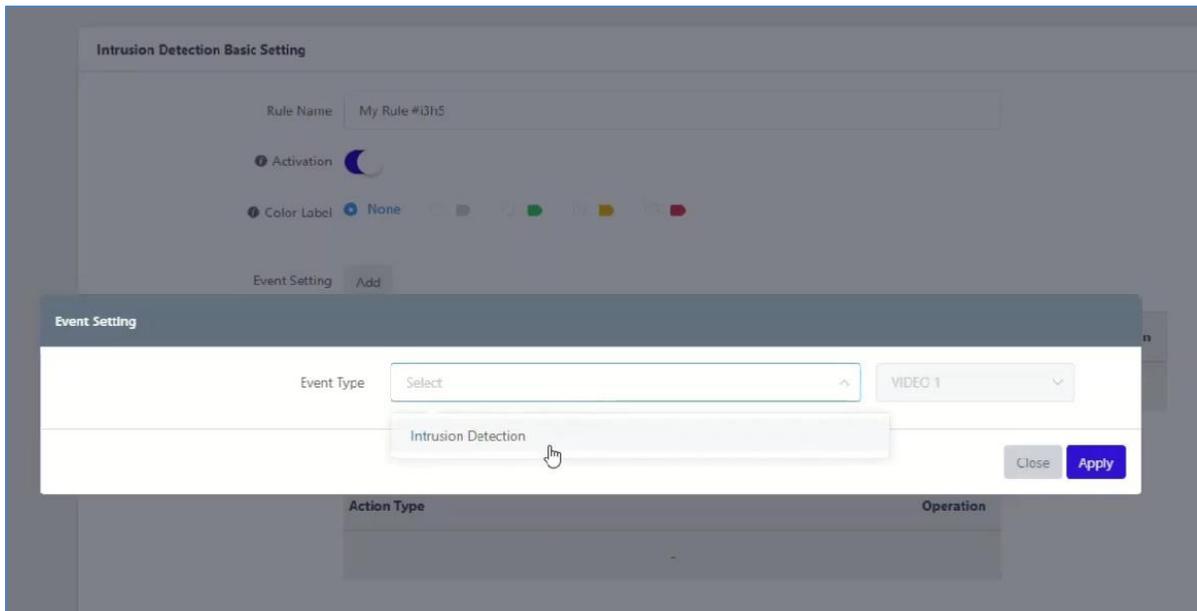
| | |
|-----------------------|-------------------------|
| In Use | 2023-02-10 - 2024-02-10 |
| Channels Available | 2 |
| Channels In Use | 1 2 3 4 5 6 7 8 |
| AI Consumption per CH | 228 |
| AI Total Consumption | 456 / 4000 |

Below this is the 'Intrusion Detection' section, which contains a table with the following headers: No, Name, Activation, Channels In Use, and Operation. The table is currently empty, displaying 'No items' with a red circle and slash icon.

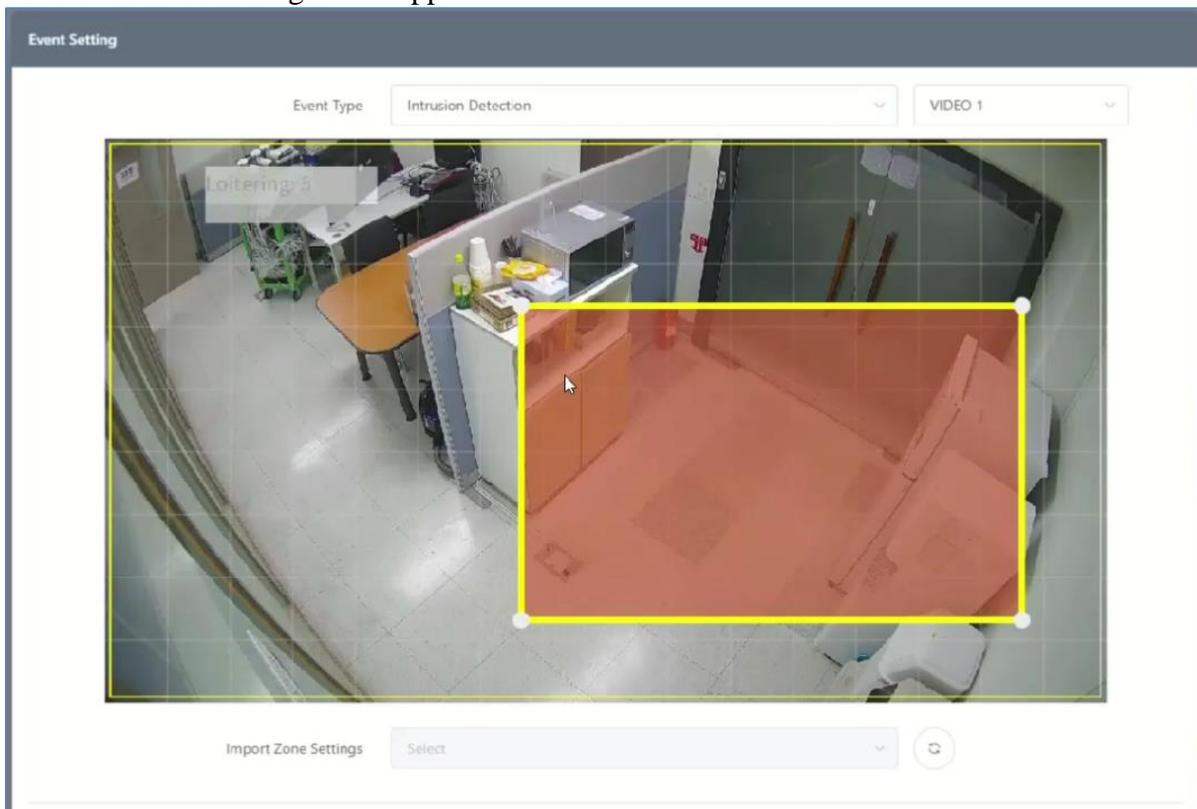
Add Event Setting.

The screenshot shows the 'Intrusion Detection Basic Setting' configuration page. It includes the following settings:

- Rule Name:** My Rule #i3h5
- Activation:** A toggle switch is currently turned off.
- Color Label:** A dropdown menu is set to 'None', with other options including grey, green, yellow, and red.
- Event Setting:** An 'Add' button is present above a table with columns for 'Video', 'Event Type', and 'Event Name'. The table is currently empty.
- Action Setting:** An 'Add' button is present above a table with a column for 'Action Type'. The table is currently empty.



Zone or detailed setting of AI App.

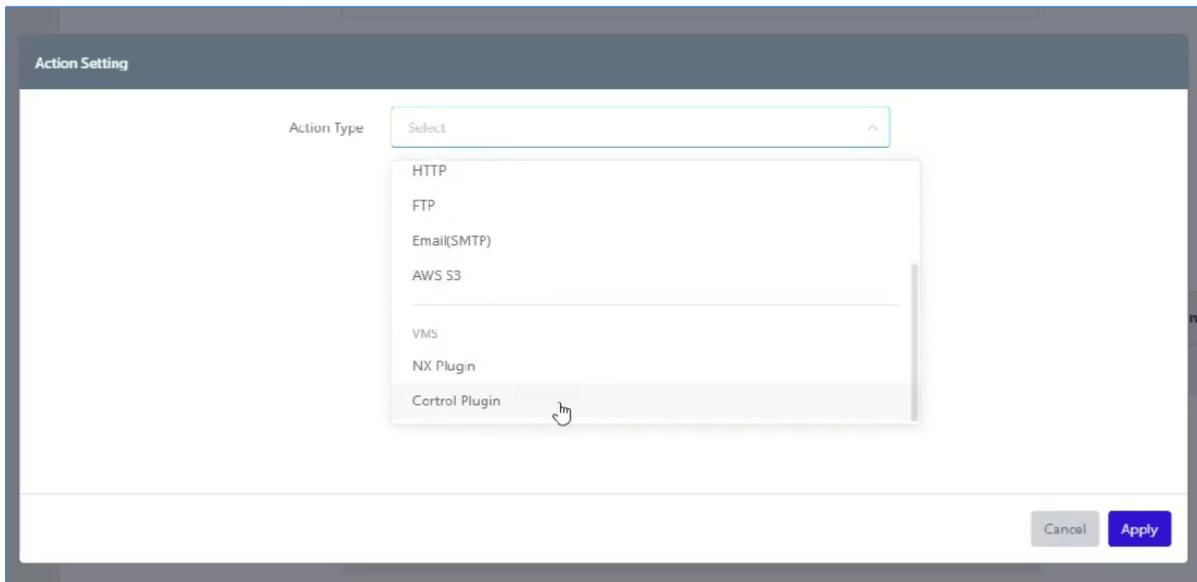
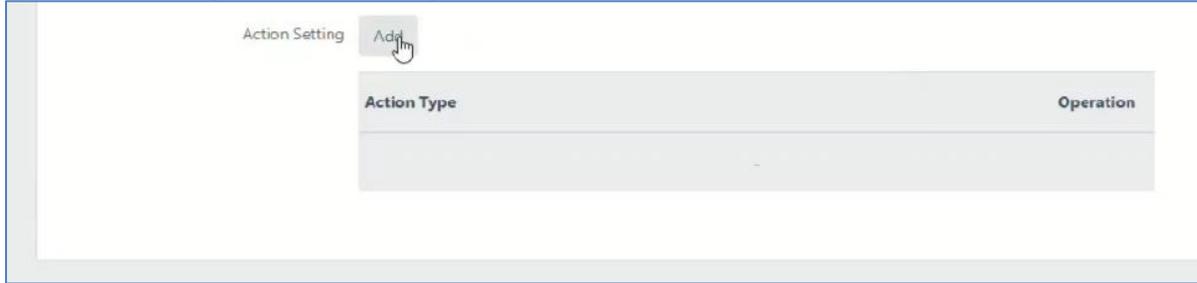




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Add Control Plugin Action Setting.



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



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Control Server Setup

IP Address: 192.168.103.199 Connected

Web Port: 8080

Username: admin

Password: Login

Metadata Enabled

Channel Mapping Mapping

Create Control External Service Create

Cancel Submit

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**.



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2.2 AIBridge Channel Mapping

Set up the relationship between the **AIBridge** channel and the channel of **Control VMS**.

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

Control Server Setup

IP Address: 192.168.103.199 Connected

Web Port: 8080

Username: admin

Password: Login

Metadata Enabled

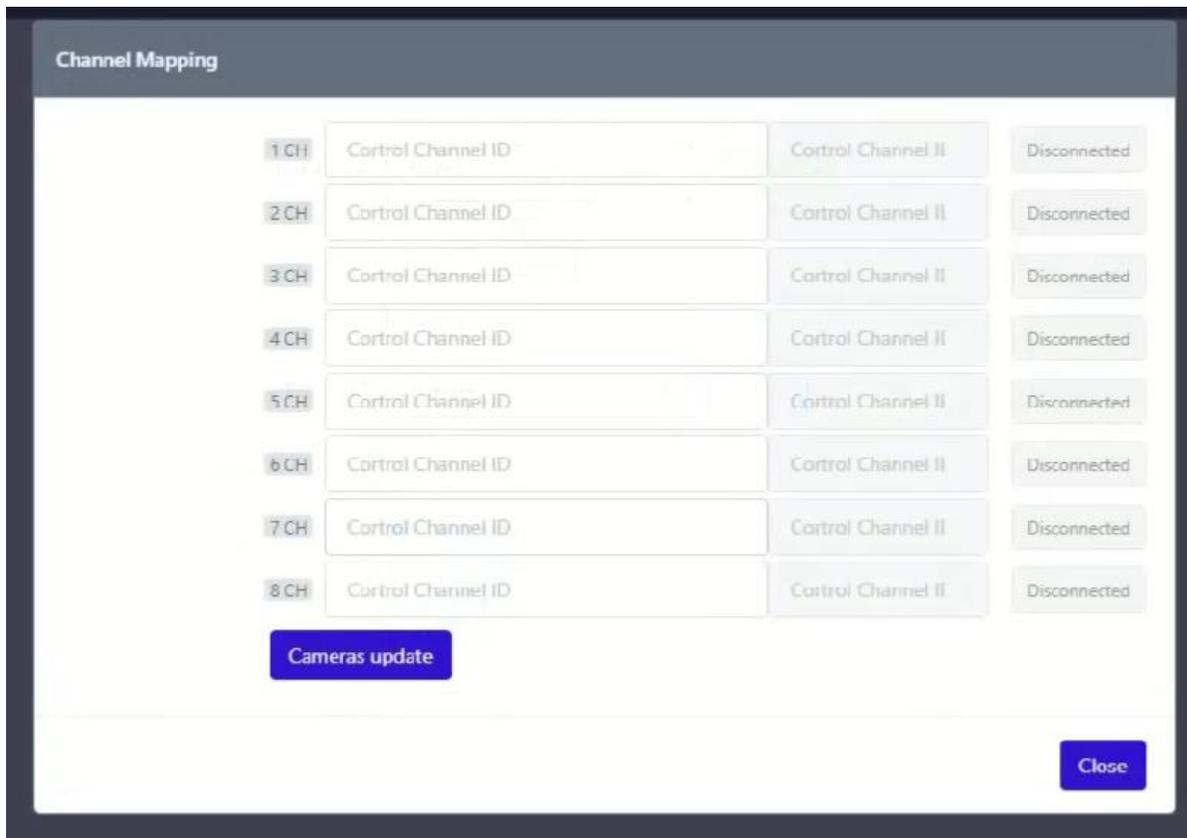
Channel Mapping Mapping

Create Control External Service Create



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

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



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Ganz CORTROL Management Console - 192.168.103.199 - Server

Configuration > Channels

Configuration

- Servers
- Networks *
- External services
- Failover clusters *
- Users
- Devices
- Channels**
- Recording
- Maps
- Layout templates

+ Create channel group Edit Assign main

| TITLE | DEVICE |
|--------|--------|
| door | 사무실... |
| EU LPR | EU LPR |
| 3 3 3 | |



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The screenshot displays the 'Channel door' interface. On the left is a navigation menu with the following items: Channel, Details (selected), Members, Membership, Permissions, Motion detector, Video analytics, Audio, Inputs, Outputs, Channel configuration, Video overlays, Dewarp, Video configuration, RTSP configuration, and Edge configuration. The main area is titled 'Details' and contains several configuration sections, each with a dropdown menu and a 'Change...' button:

- Storage:** Default
- Substream recording configuration:** none
- Substream storage:** Default
- Edge recording configuration:** none
- Edge storage:** Default
- Video lost time:** 15 (Time Interval in seconds)
- Recording identifier:** 581E34D6-202A-44C3-84AB-BD1D2E65C3EA (Unique recording identifier)

At the bottom left, there is a 'Related items' dropdown menu. A mouse cursor is visible near the bottom center of the interface.



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Channel Mapping

| | | | |
|------|--|---|---|
| 1 CH | <input type="text" value="681E34D6-204A-44C3-84AB-BD1D2E65C3I"/> | <input type="text" value="door"/> | <input type="button" value="Connected"/> |
| 2 CH | <input type="text" value="Control Channel ID"/> | <input type="text" value="Control Channel II"/> | <input type="button" value="Disconnected"/> |
| 3 CH | <input type="text" value="Control Channel ID"/> | <input type="text" value="Control Channel II"/> | <input type="button" value="Disconnected"/> |
| 4 CH | <input type="text" value="Control Channel ID"/> | <input type="text" value="Control Channel II"/> | <input type="button" value="Disconnected"/> |
| 5 CH | <input type="text" value="Control Channel ID"/> | <input type="text" value="Control Channel II"/> | <input type="button" value="Disconnected"/> |
| 6 CH | <input type="text" value="Control Channel ID"/> | <input type="text" value="Control Channel II"/> | <input type="button" value="Disconnected"/> |
| 7 CH | <input type="text" value="Control Channel ID"/> | <input type="text" value="Control Channel II"/> | <input type="button" value="Disconnected"/> |
| 8 CH | <input type="text" value="Control Channel ID"/> | <input type="text" value="Control Channel II"/> | <input type="button" value="Disconnected"/> |



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 Control External Service

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

Control Server Setup

IP Address: 192.168.103.199 Connected

Web Port: 8080

Username: admin

Password: Login

Metadata Enabled

Channel Mapping Mapping

Create Control External Service Create

Cancel Submit

Click the “**Apply**” button to save the Control Server settings.

Action Setting

Action Type: Control Plugin

Channel: door

Event Type: detector

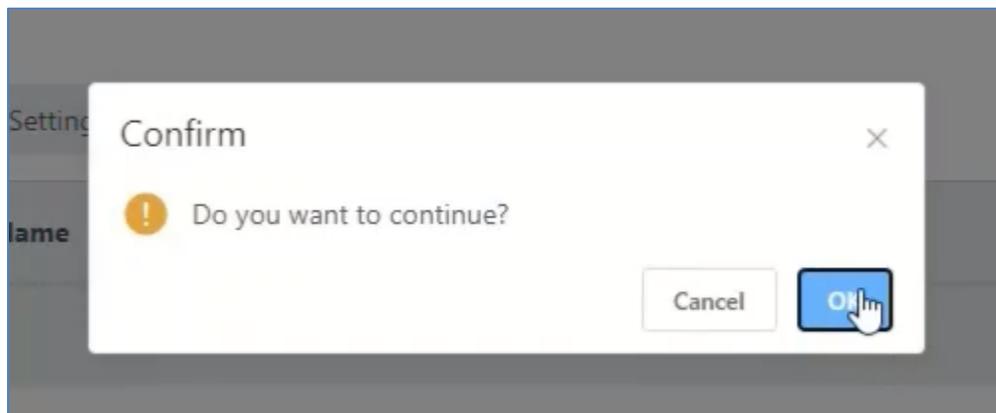
Control Server: 192.168.103.199 Connected Edit

Web Port: 8080
Username: admin

Only one Control server can be used.

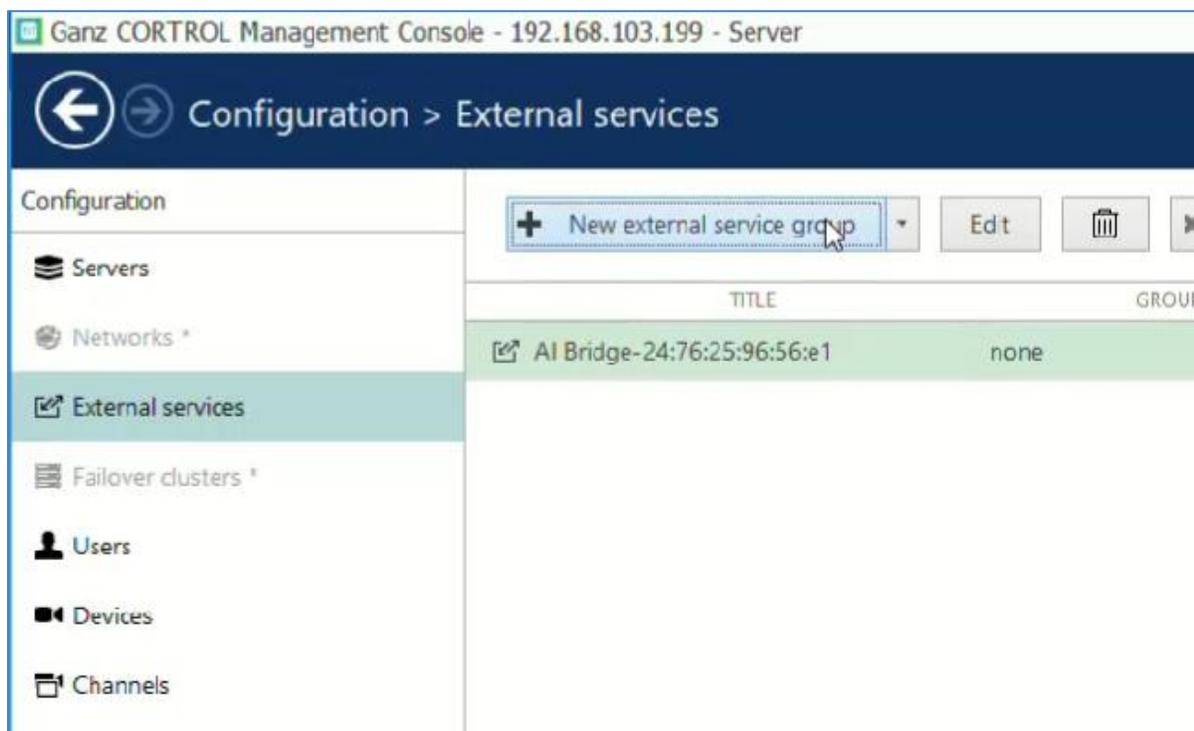
Test Event Test

Cancel Apply



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

Next, Create an External Service Group.





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

External service group AI Bridge*

External service group

Details

Details*

Permissions

Title

AI Bridge

External services group name

Assign **AIBridge** to the new External Service Group.

Gantz CORTROL Management Console - 192.168.103.199 - Server

Configuration > External services

Configuration

Servers

Networks *

External services

Failover clusters *

Users

Devices

Channels

+ New external service group

edit

delete

| TITLE | GR |
|-----------------------------|------|
| AI Bridge-24:76:25:96:56:e1 | none |
| AI Bridge | |



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External service AI Bridge-24:76:25:96:56:e1

External service

- Details*
- Events and actions
- Related resources

Details

Title

External service title

Server

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

Group

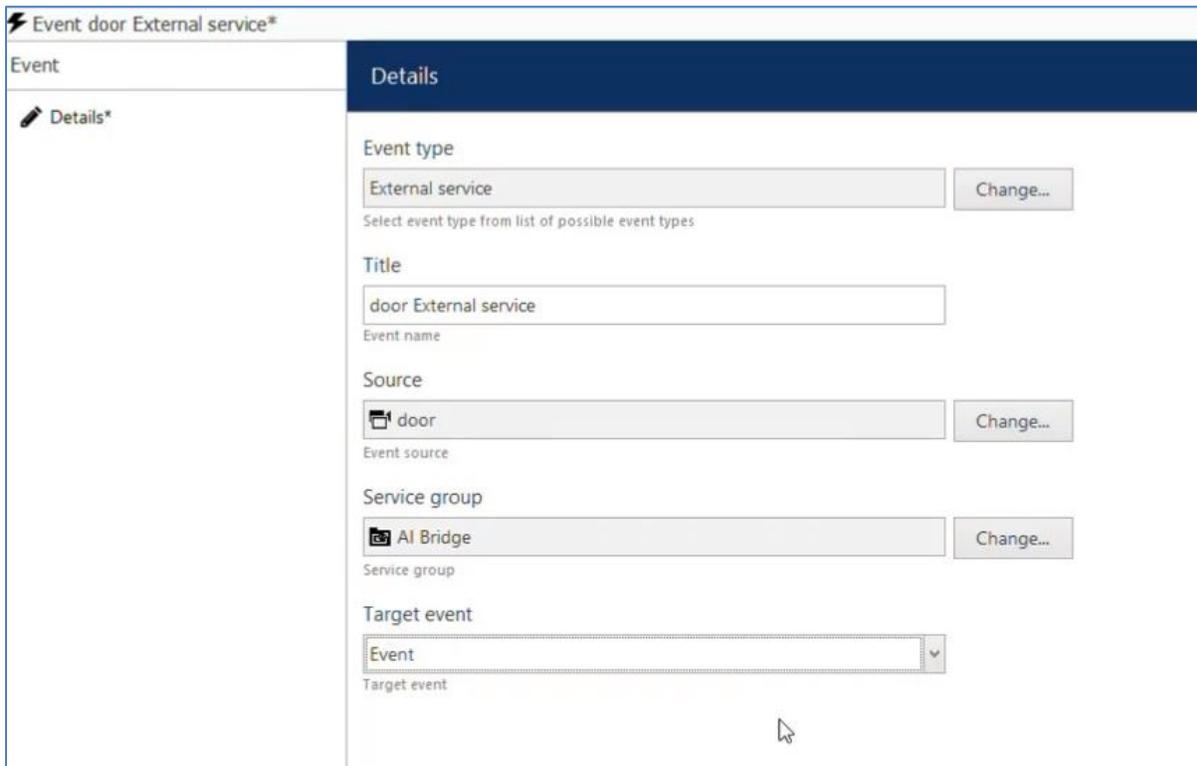
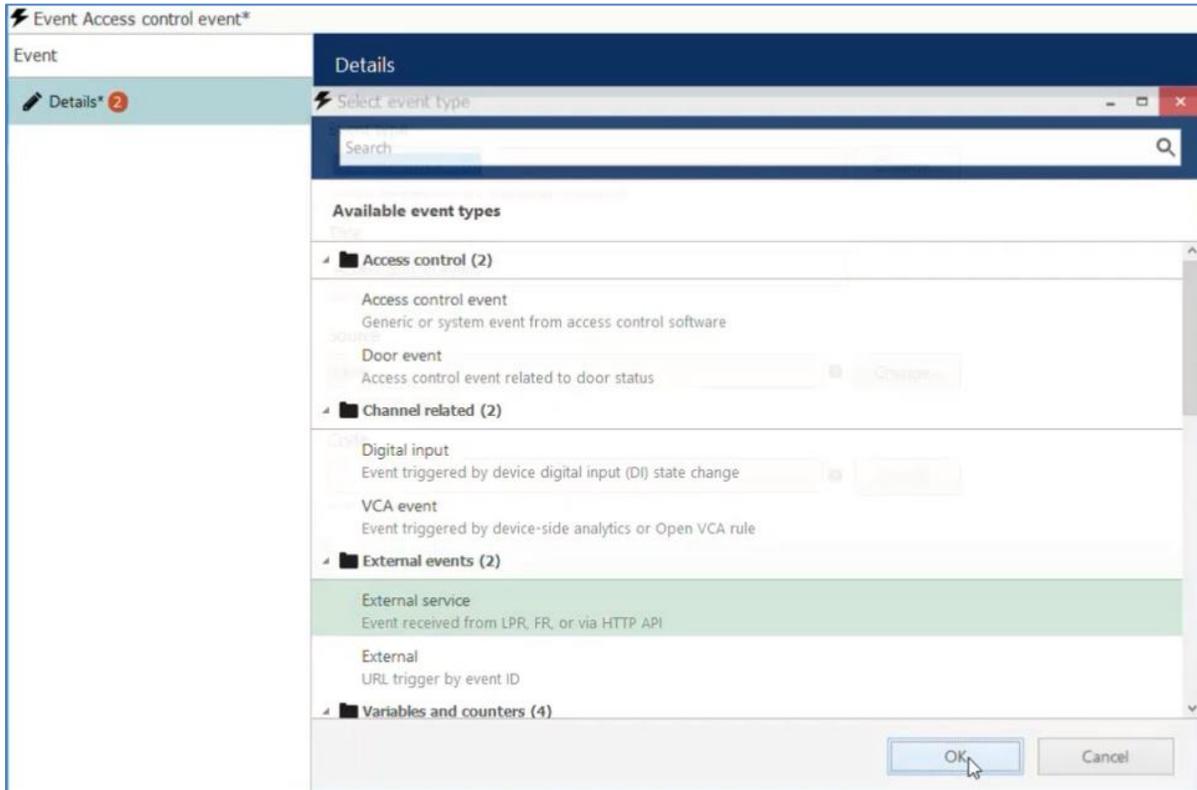
Group to which the external service belongs

2.4 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.

| TITLE | EVENT TYPE | SOURCE | RE |
|----------------------|--------------------------------|--------|----|
| Disk excludng | Disk excludng | | |
| Failover activating | Failover activating | Server | |
| Fall-back activating | Fallback storage activating | | |
| Motion | Motion detected | | |
| Motion started | Motion started | | |
| Motion stopped | Motion stopped | | |
| Recording error | Recording error | | |
| Recording recovered | Recording recovered from error | | |
| User button dicked | User button | | |
| Video lost | Video lost | | |
| Video restored | Video restored | | |

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

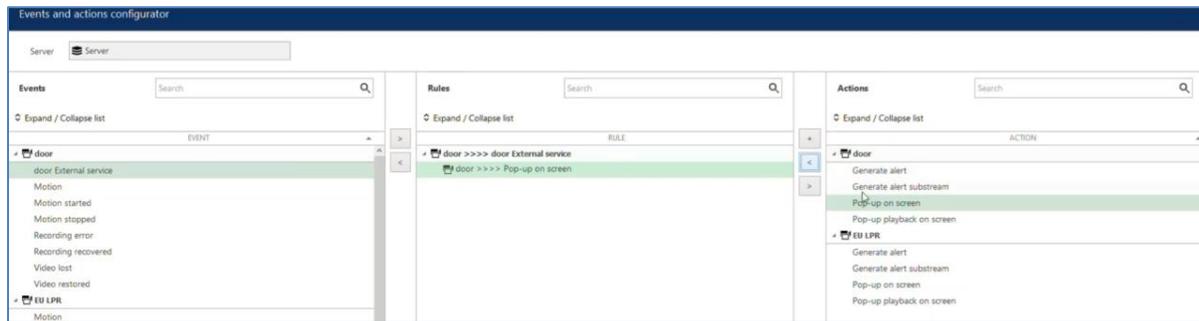




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Create a rule by combining the created event type and action.

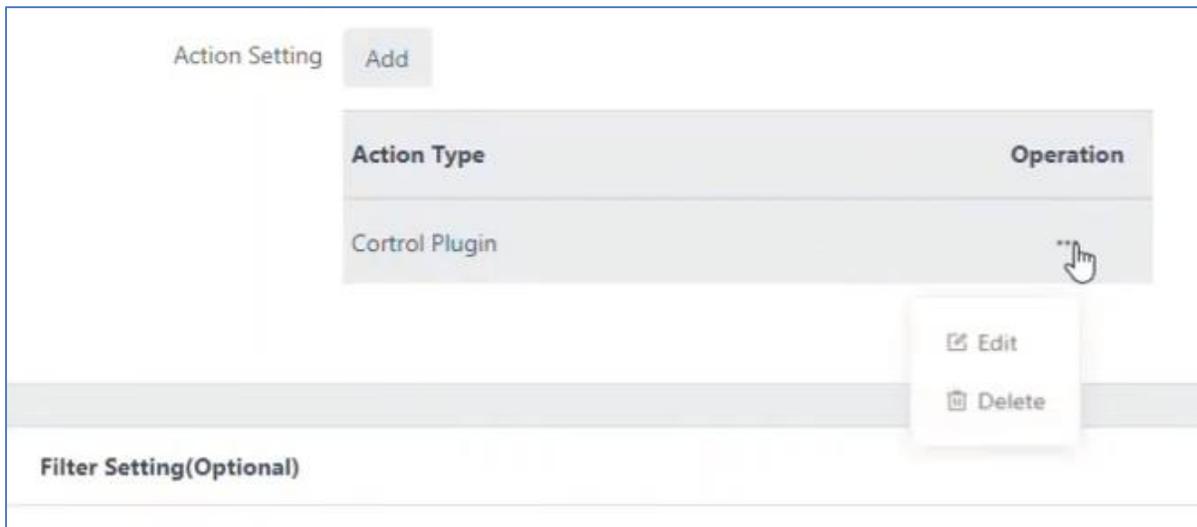
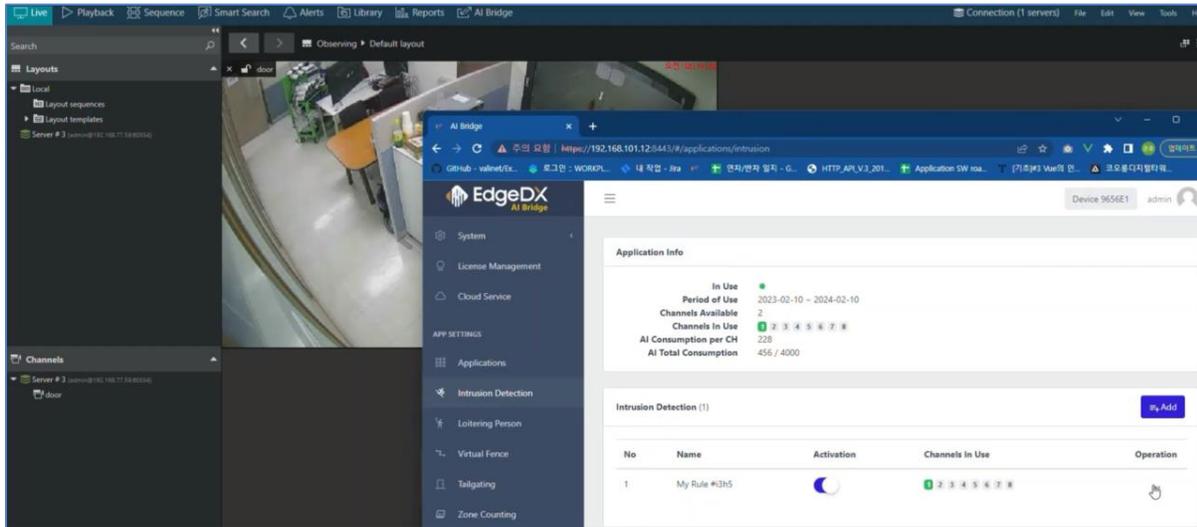


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2.5 AIBridge Rule Test

In AIBridge's Control Setup page, use the event **“Test”** button to test whether the setting is successful.





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Action Setting

Action Type: Control Plugin

Channel: door

Event Type: detector

Control Server: 192.168.103.199 Connected [Edit](#)

Web Port: 8080
Username: admin

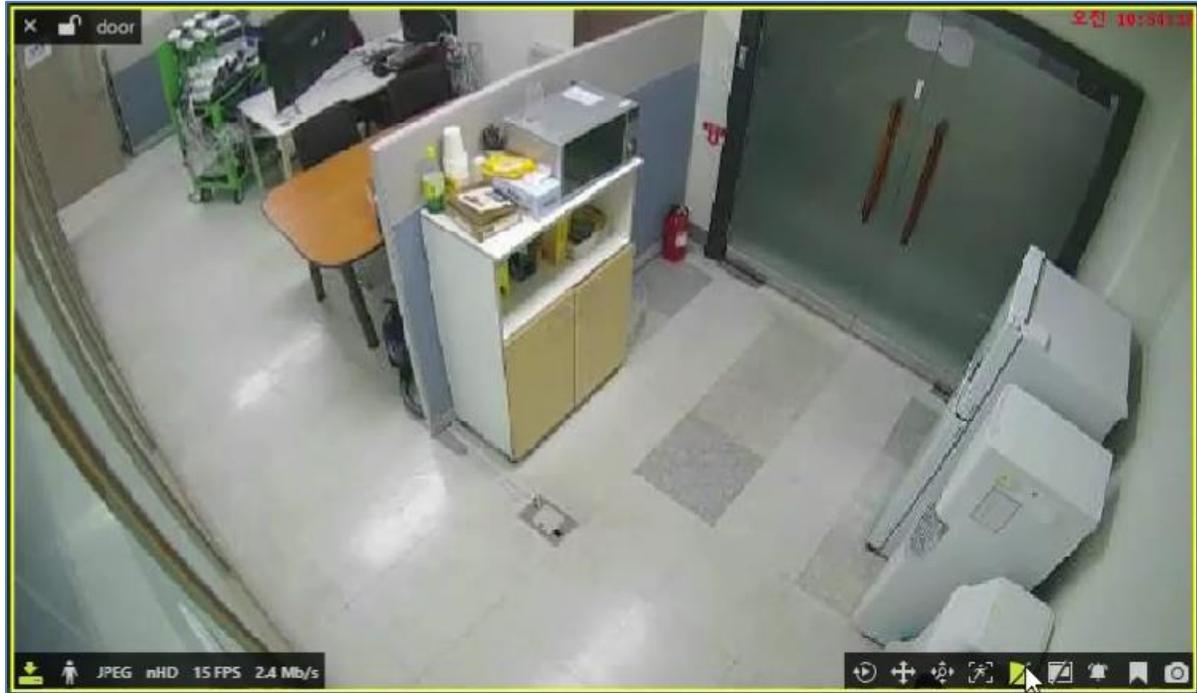
Only one Cortrol server can be used.

Test Event [Test](#)

3. Demo

3.1 Live

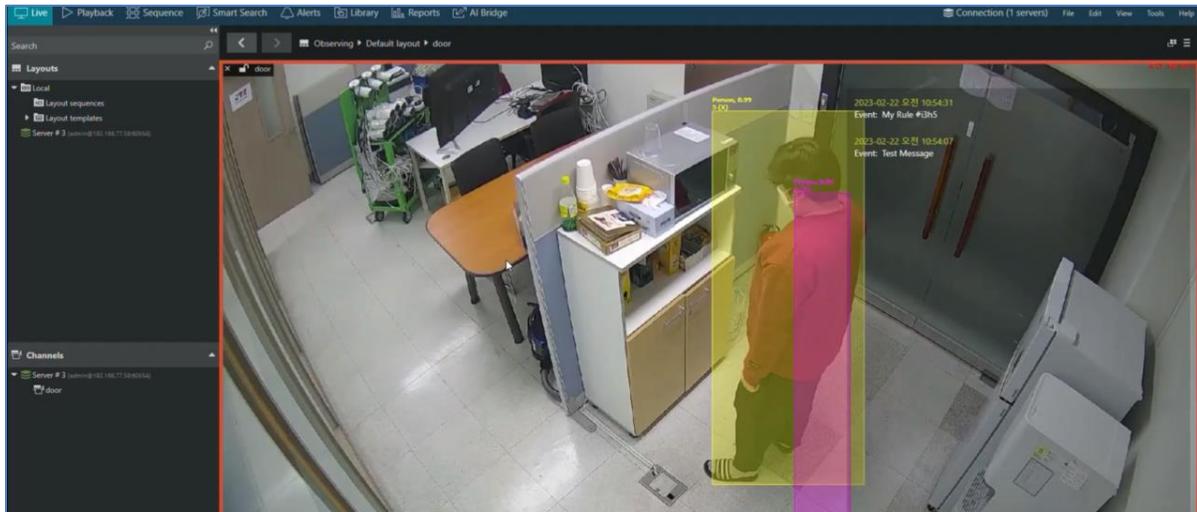
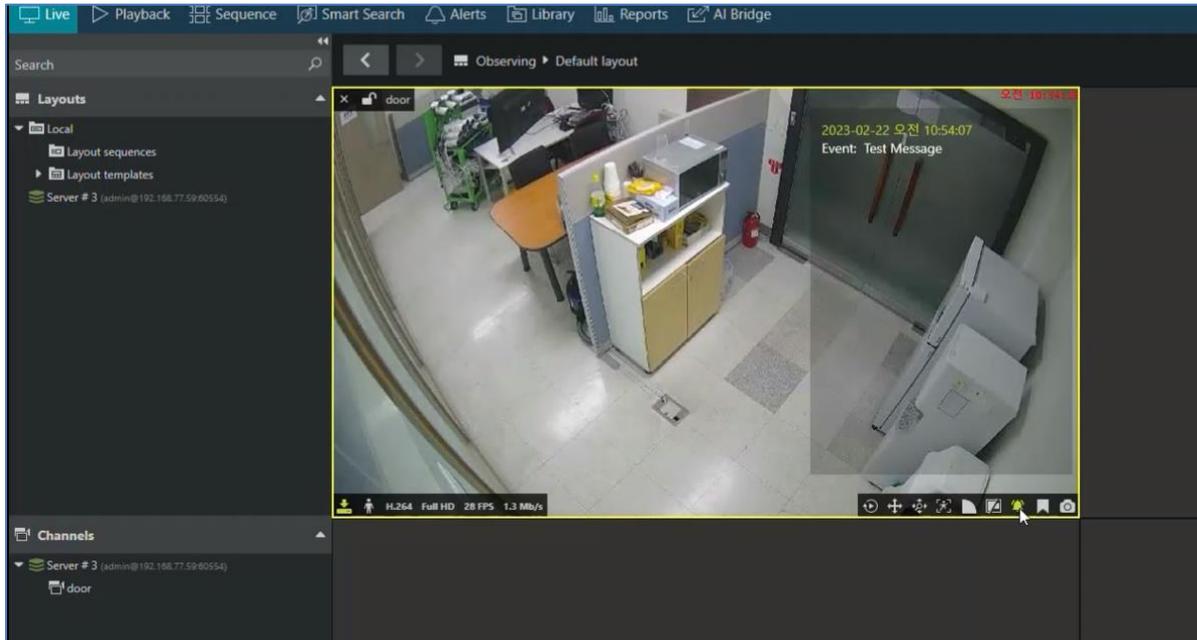
Set the **Control Client** to display **Metadata** and **Alarms** to check if it works with **AIBridge**.
(Click the icon at the bottom of the video)





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3.2 Search

