

Argo Config User Manual V1.2



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### Installation and system requirements

1. Argo software is divided into three modules: Argo Client, Argo Config and Argo Recorder. The following content will provide a basic introduction to these three applications:

### 1.1 Argo Client and Argo Config

Argo Client installation file contains two modules: Argo Client and Argo Config.

- Argo Client: for monitoring real-time images, e-maps, replay, export images, etc.
- Argo Config: for managing users and connected devices, set events, etc.

### 1.2 Argo Recorder

Use setup\_Spark\_Argo\_Recorder.exe installation file to install Argo Recorder. Argo Recorder will start automatically when the Windows system starts. Note that Argo Config and Argo Client applications can only be used once Argo Recorder is active. Argo Recorder acts as the recording server.

To avoid hardware overload, it is recommended to use different servers. Install Argo Recorder on one server for recording purposes, and install Argo Client and Argo Config on another server to act as the main server for real-time viewing and configuration.

Below are reference values to facilitate users the calculation of their specific server requirement. The specific server requirements may vary according to different scenarios.

 CPU: Allocate 90 CPU marks per camera. You can search for suitable CPU specifications on the following website (<u>https://www.cpubenchmark.net/high\_end\_cpus.html</u>)

e.g.: If you need 50 cameras, the required CPU score would be 90 multiplied by 50, resulting in a total of 4500. After calculating the total score, you can visit the above website to find an appropriate CPU. Additionally, we recommend adding a buffer of 1800 points to ensure the system operates perfectly.

- RAM: 160GB or more
- Operating system: Windows 10(64-bit)
- HDD: Requirement varies depending on camera quantity, recording time and resolution.
  - 1 camera recording 20MP for 24hrs requires 211GB.
  - 1 camera recording 5MP for 24hrs requires 63GB.
  - 1 camera recording 2MP for 24hrs requires 42GB.
- 2. System Requirement
- Spark Client + Config minimum system requirements
   CPU: Intel Core i5 @ 2.7GHz RAM 4GB



Disk space: 500 MB free disk space Graphics Card: 1GHz, 1GB RAM Screen Resolution: 1920x1080 Network Card Gigabit Ethernet Operating System: Windows 8.1(64-bit); Windows 10(64-bit); Windows 11 (64-bit)

- Spark Player minimum system requirements
   CPU: Intel Core i5 @ 2.7GHz RAM 4GB
   Graphics Card: 1GHz, 1GB RAM Screen Resolution: 1024x768
   Operating System: Windows 8.1(32-bit or 64-bit); Windows 10(32-bit or 64-bit);
   Windows 11(32-bit or 64-bit)
- Spark Recorder minimum system requirements
   CPU: Intel Core i5 @ 2.7GHz RAM 8GB
   Network Card: Gigabit Ethernet
   Operating System: Windows Server 2012 R2; Windows Server 2016; Windows
   7SP1(64bit); Windows 8(64-bit); Windows 8.1(64-bit); Windows 10 (64-bit); Windows
   Server 2019; Windows Server 2022; Windows 11(64-bit)



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### - 0. START

### 0.1 Log in

# Step 1. Double click Argo config to open login window

| Argo Client               |             | Argo <b>config</b><br>2024.1.2       |
|---------------------------|-------------|--------------------------------------|
|                           | Host        | 127.0.0.1                            |
|                           | Туре        | Spark Argo Recorder 🛛 🗸 🗸            |
|                           | Certificate | spark.protocol.network.certificate 🖞 |
| spark                     | Username    | admin                                |
| Member of TTNA TECHNOLOGY | Password    |                                      |
|                           |             | Connect                              |

# Step 2. Select language

|             | ARGO CONFIG  | Argo <b>config</b> | → < Language<br>Choose language<br>EN English (United States)<br>IT Italiano<br>繁確 紫館中文 |
|-------------|--|--------------------|---|
|             | Host 127.0.<br>Type Spark.<br>Certificate spark.<br>Spark Username admin<br>menter of TTA/Inconcion Password | 2024.1.2           | ES Español  |
| D<br>2<br>0 | F  | Connect            |   |

- Click [Options] at the bottom left and then click [Language].
- After selecting the language, click **[Save]** to save the settings.



### Step 3. Log in Argo config

| 💿 開啟  |                                    | ×                                  |             |                     |              |
|---|------------------------------------|------------------------------------|-------------|---------------------|--------------|
| $\leftrightarrow \rightarrow \checkmark \uparrow$ | « Spark > Spark Certificates ∨ C   | 搜尋 Spark Certificates              |             |                     |              |
| 組合管理 • 新増資料                                       | 4夾                                 | ≣ • 🗆 💡                            |             |                     |              |
| > 🔛 Windows (C:)                                  | 名稱                                 |                                    |             | Argo                | config       |
| > 🛋 Data (D:)                                     | spark.protocol.network.certificate |                                    |             | 2023.1.1            | Ŭ            |
| 🗸 🍹 網路  |                                    |                                    |             |                     |              |
| > 📮 ARGO-TEST-F                                   |                                    |                                    | Host        | 127.0.0.1           |              |
| > 📮 LAPTOP-NJN'                                   |                                    | 選取要預覽的檔案。                          | Туре        | Spark Argo Recorder | × _          |
| > 📮 SPARK-SALES                                   |                                    |                                    | Certificate |                     | rtificate_ 8 |
| > 💻 SPARK/J\K                                     |                                    |                                    | Username    | admin               |              |
| > 📮 SQA-PC  |                                    |                                    |             |                     |              |
| > 📮 XEON-TEST-P                                   |                                    |                                    | Password    |                     |              |
|   | ₩-2712/ND-                         | CEDTIFICATE files (* cortificate v |             |                     |              |
| 101   |                                    | 開啟(O) 取消                           |             |                     | Connect      |
|   |                                    |                                    |             |                     |              |
|   |                                    |                                    |             |                     |              |
|   |                                    |                                    |             |                     |              |
|   |                                    |                                    |             |                     |              |
|   |                                    |                                    |             |                     |              |

- Server: Insert Spark Recorder server' s IP address or insert default IP 127.0.0.1
- Type: Spark Argo Recorder (default)
- Certificate: Click [...] to automatically navigate to the default authentication folder and select the file.
- Username: admin (default)
- Password: **admin** (default)
- Click [Connect]

Step 4. On first login, you will be asked if you want to import the certificate. Click Yes to save the certificate in the system.





Step 5. After logging in, the system will ask to change the password. The new password must contain at least one special character, one upper case letter, one lower case letter and a minimum length of 8 characters.

| i Change User Password |          |        |   |  |  |  |
|------------------------|----------|--------|---|--|--|--|
| Username               | admin    |        |   |  |  |  |
| Old password           | •••••    |        | ۲ |  |  |  |
| New password           | •••••    | •      | ۲ |  |  |  |
| Confirm password       | •••••    | •      | 0 |  |  |  |
| Change                 | bassword | Cancel |   |  |  |  |
|                        |          |        |   |  |  |  |

Note: After completing the initial password change, please note the following:

- When using single login interface, users only need to insert the changed password to log in.
- When using quick login interface, users must change the default password to the changed password to log in.



### 0.2 Argo config interface

| $\equiv$   |                       | () Thursday, June 06, 2024 03:08:49 PM | $earrow admin@spark=pk \mid - \Box \times$ |
|------------|-----------------------|--|--|
| $\bigcirc$ | 🗋 Home                |  |  |
| <b>₽</b> ® | CONNECTED CAMERAS     |  | 3/3  |
| 8          | LICENSED CAMERAS      |  | 3/3  |
|            | CONNECTED NVRS        |  | 0/0  |
| ď          | CONNECTED I/O MODULES |  | 2/2  |
|            | CONNECTED RECORDERS   |  | 1/1  |
| Ŕ          | CONNECTED CLIENTS     |  |  |
| ഷ          | CONNECTED ARGO CONFIG |  |  |
| Ē,         | CONNECTED USERS       |  |  |
| ₿          |                       |  |  |
|            |                       |  |  |
|            |                       |  |  |
|            |                       |  |  |
| ţ,         |                       |  |  |
| 8          |                       |  |  |
| R          |                       |  |  |

Click the [**三**] icon at the top left to browse the icon text

| $\bigcirc$ | Home                      | Þ | Argo Client |
|------------|---------------------------|---|-------------|
| Ē          | Devices                   | ţ | Options     |
| 8          | Users Management          | 8 | User        |
| ₹<br>I     | Health Doctor             | Ő | About       |
| Ľ?         | Events and alarms         |   |             |
|            | Access control            |   |             |
| <b>N</b>   | Analytics data collection |   |             |
| ᠿ          | Backup and restore        |   |             |
|            | Licensing                 |   |             |
| ß          | Log                       |   |             |

 Menu: Devices/ User management /Health Doctor/Events and alarms/Access Control/ Analytics data collection/Backup and restore/Licensing/Log /Argo client/Options/User/About



### **1. DEVICES**

### **Statistics** 1.1

| $\equiv$     | ARGO CONFIG       |  |   |                   | 🕓 Friday, J  | lune 07, 2024 10:35:59 AM | admin@spark | - ¤ × |
|--------------|-------------------|--|---|-------------------|--------------|---------------------------|-------------|-------|
| $\hat{\Box}$ | 🗗 Devices         | Recorder of  | on SPARK  |                   |              |                           |             |       |
| ₽ª           | Recorder on SPARk | STATISTICS <b>^</b>                                  |   |                   |              |                           |             |       |
| පී           |                   | CPU (11TH GEN<br>LOGICAL PROCESSORS<br>CPU USAGE 13% | N INTEL(R) CORE( <sup>*</sup><br><sup>5 8</sup> | тм) і7-1165б7     | 7 @ 2.80g⊦   | ız - 1 )                  |             |       |
| -<br>        |                   | MEMORY<br>9.75 GB/15.66 GB                           |   |                   |              |                           |             |       |
| CP           |                   | STORAGE  |   |                   |              |                           |             |       |
|              |                   | TOTAL STORAGE CAPA<br>USED SPACE FOR RECO            | CITY 1.14 TB<br>ORDING 128.00 GB                |                   |              |                           |             |       |
| <b>M</b>     |                   | FREE SPACE 439.19 G                                  | В   |                   |              |                           |             |       |
| বাচ          |                   | DEVICES<br>CONNECTED CAMERA                          | 5 2   |                   |              |                           |             |       |
|              |                   |  | VIDEO DEVICES                                   | I/O MODULES       | OTHER SETTI  |                           | INFO        |       |
| B            |                   |  |   |                   |              |                           |             |       |
| æ            |                   |  | Select all                                      |                   |              |                           |             |       |
|              |                   | VIDEO DEVICES  | SELECT ADDRESS                                  | MODEL NAME        | STATUS DEVIC |                           | ED          |       |
|              |                   |  | 192.168.2.232                                   |                   | Ready Came   | ra i No                   |             |       |
|              |                   |  | 192.100.2.235                                   | SK-C-A2-DF1-F3-IK | Ready Came   | 18 <b>4</b> NO            |             |       |
|              |                   |  |   |                   |              |                           |             |       |
| ų,           |                   |  |   |                   |              |                           |             |       |
| 8            |                   | 2 Video devices                                      |   |                   |              |                           |             |       |
| Ô            | Add Delete        | 0 Recording<br>devices                               |   |                   |              | Scan Ad                   | d Delote    | Edit  |

- Click on [Statistics] \_
- Browse device status on Statistics: CPU/memory/Storage/Device \_

### 1.2 **Video Devices**

### 1.2.1 Add video devices (Scan devices/Add devices to recorder manually)

### A. Scan devices () Friday, June 07, 2024 10:38:57 AM Recorder on SPARK 🗋 🗗 Devices Recorder on SPARK VIDEO DEVICES I/O MODULES OTHER SETTINGS STORAGE 8 Select all VIDEO DEVICES SELECT ADDRESS 192.168.2.232 BM2 Ready Camera 1 No 192.168.2.235 SR-C-A2-DF1-F3-IR Ready Camera 4 $\square$ No 2 臧 曡 SR-C-AS-DM2-V13-IR-8 Þ ų L 115 Devices found 0 Devices selecte 2 Video device 0 Rec cording Del Add



- Click **[Scan]** at the bottom right.
- Select devices and then click [Add]
- Username: Insert device username.
- Password: Insert device password.

Note: For different devices with the same username and password, you can select add simultaneously. For devices with different usernames and passwords, you will need to insert separately.

| $\equiv$     | ARGO CONFIG                                    |                                |                 |              | 🕚 Friday, June 0  | 7, 2024 10:38:57 AM | 8 admin@spark | – Ø × |
|--------------|--|--------------------------------|-----------------|--------------|-------------------|---------------------|---------------|-------|
| $\hat{\Box}$ | a Devices                                      | Recorder of                    | on SPARK        |              |                   |                     |               |       |
| B            | ✓      Recorder on SPARK-     spark - 127.00.1 | statistics 🗸                   |                 |              |                   |                     |               |       |
| 8            |  |                                | VIDEO DEVICES   | I/O MODULES  | OTHER SETTINGS    | STORAGE             | INFO          |       |
|              |  |                                | Add device to   | recorder man | ually             | IE RECORDING EN     | ABLED         |       |
| r\$          |  |                                | Brand           | Model        | products X        | No                  |               |       |
|              |  |                                | Addrose         | Dart a       |                   | No                  |               |       |
| <b>**</b>    |  |                                | Address         | 0            | ue means default) |                     |               |       |
| പ            |  |                                |                 |              |                   |                     |               |       |
|              |  |                                | Enable IP range | )            |                   |                     |               |       |
|              |  |                                |                 |              |                   |                     |               |       |
| ee<br>       |  |                                |                 |              |                   |                     |               |       |
|              |  |                                | Username        | Password     |                   |                     |               |       |
|              |  |                                |                 |              |                   |                     |               |       |
| źĊż          |  |                                |                 |              |                   |                     |               |       |
| Q            |  |                                |                 |              |                   |                     |               |       |
|              | ·  | 2 Video devices<br>0 Recording | Ad              | d Cancel     |                   |                     | ₩             |       |
| D            | Add Delete                                     | devices                        |                 |              |                   | Scan                | Add Delete    |       |

### B. Add devices to recorder manually

- Click **[Add]** at the bottom right.
- Brand: Select device brand name (below list for reference)
- Address: Insert device IP address
- Port: Insert device port number (default is 0)
- Enable IP range: insert desired IP range
- Username: Insert device username.
- Password: Insert device password.

| Brand   | Description   |
|---------|---|
| АМТК    | AMTK devices  |
| Generic | If the camera model is displayed as unknown, the system can use |
|         | the Generic API for addition.                                   |
| ICE     | ICE license plate recognition devices                           |

Argo Client



| LPR Reader | License plate recognition devices |
|------------|-----------------------------------|
| Milesight  | Milesight devices                 |
| ONVIF      | ONVIF compliant devices           |
| Spark      | Spark devices                     |

### **1.2.2 Edit video devices**

| $\equiv$     | ARGO CONFIG   |                       |                             |                           |               | 🕔 Friday,             | June 07, 2024 01:43:2      | ?7 PM   💍 admin@spark | ydyk∣ – |
|--------------|---|-----------------------|-----------------------------|---------------------------|---------------|-----------------------|----------------------------|-----------------------|---------|
| $\hat{\Box}$ | ₽° Devices  | Recorder on SPARK/J\K |                             |                           |               |                       |                            |                       |         |
| ₽            | V B Recorder on SPARK/J\K<br>spartege - 192.1662240 | statistics 🗸          |                             |                           |               |                       |                            |                       |         |
| 8            |   |                       | VIDEO DEVICES               | I/O MODULES               | OTHER SETTING | SS STORAGE            | INFO                       |                       |         |
| -14-         |   | Select all            |                             |                           |               |                       |                            |                       |         |
| -\$-         |   | SELECT ADDRES         | inable camera               |                           |               | SPARK Carnera 2       |                            |                       |         |
| ມ<br>ຄ       |   | 192.168.              | 2n 💶<br>Irand Mode          | el                        |               |                       |                            |                       |         |
| 1            |   | 192.168.              | Spark V Orn                 |                           |               |                       |                            | spark                 |         |
| ай,          |   |                       | 192.168.2.17 0              |                           |               |                       | - 10                       | 12                    |         |
| ৫₽           |   |                       | Jsername Passa              | vord                      |               |                       | 9                          |                       |         |
| E,           |   |                       | 40mm                        |                           |               |                       |                            | 63                    |         |
| ₿            |   |                       | Notocol<br>RTSP over TCP V  |                           |               | E                     | spark                      |                       |         |
|              |   |                       |                             |                           |               |                       |                            |                       |         |
|              |   |                       | ACTIVE STREAM NAME PROT     | OCOL CODEC RESOLUTION P   | IPS TAGS      |                       |                            |                       |         |
|              |   |                       | videostream 0 RTSP          | over TCP H264 1920x1080 : | S HMLT        |                       |                            |                       |         |
|              |   |                       | videostream 2 RTSP          | over TCP H264 320x240     | 90 HMLT       |                       |                            |                       |         |
|              |   |                       | Available recording streams |                           | ARCHIVE       | RECORDING TYPE MAX RE | ETENTION (O UNLIMITED) TIN | ME UNIT EDGE RECOVER  |         |
|              |   |                       | videostream 0               |                           | ×.            | Ahmys (24/7) 😪 🛛 0    | D                          | ays ∨ Disable ∨       |         |
|              |   |                       | ACTIVE STREAM NAME          |                           | ARCHIVE       | RECORDING TYPE MAX RE |                            | AE UNIT EDGE RECOVER  |         |
|              |   |                       | videostream 1               |                           | ~             | Abarge (24/7) 😒 0     | D                          | ays 🗸 Disable 🗸       |         |
|              |   |                       | ACTIVE STREAM NAME          |                           |               |                       |                            | ME UNIT EDGE RECOVER  |         |
| -112-        |   |                       | videostream 2               |                           | ~             | Alwaya (24/7) 🛩 🛛 0   | D                          | ays 🗸 Disable 🗸       |         |
| хQ2          |   | 1 Selected            |                             |                           |               |                       |                            |                       |         |
| 8            |   | 3 Video devices       |                             |                           | Cancel        |                       |                            |                       |         |
| 8            |   | 0 Recording           |                             |                           |               |                       |                            |                       |         |
| U            | Add Delete  | devices               |                             |                           |               |                       | Scan                       | Add Delete            | Edit    |

- Select Check the video device you want to edit and click **[Edit]** at the bottom right.

### SPARK Camera 2 Edit camera Brand Model ark 192.168.2.17 0 10 Q ••••• admin 7 6 spark Protocol RTSP over TCP ~

Step 1. Edit camera

- Enable camera: enable/disable camera
- Brand: selected during camera addition, cannot be modified.



- Model: selected during camera addition, cannot be modified.
- Address: edit device IP address
- Port: edit device port number (default is 0)
- Username: edit device username.
- Password: edit device password.
- Protocol: select protocol (TCP/UDP/HTTP)

### Step 2. Available profiles

| f Available profiles |               |               |       |            |     |      |  |  |  |  |  |  |  |
|----------------------|---------------|---------------|-------|------------|-----|------|--|--|--|--|--|--|--|
| ACTIVE               | STREAM NAME   | PROTOCOL      | CODEC | RESOLUTION | FPS | TAGS |  |  |  |  |  |  |  |
|                      | videostream 0 | RTSP over TCP | H264  | 1920x1080  | 30  | нміт |  |  |  |  |  |  |  |
|                      | videostream 1 | RTSP over TCP | H264  | 1280x720   |     | нміт |  |  |  |  |  |  |  |
|                      | videostream 2 | RTSP over TCP | H264  | 320x240    | 30  | HMLT |  |  |  |  |  |  |  |

- Select the profile(s) to display (default is all enabled).

### Step 3. Available recording streams

| Available recording streams   |                     |                 |
|---|---------------------|-----------------|
| ACTIVE STREAM NAME ARCHIVE RECORDING TYPE MAX RETENTION (0 UNLIMITED) TIME UNIT | EDGE RECOVER        |                 |
| ✓     videostream 0     Archive     ✓     Always (24/7) ✓     0     Days        | ∽ Disable ∽         |                 |
| ACTIVE STREAM NAME ARCHIVE RECORDING TYPE MAX RETENTION (O UNLIMITED) TIME UNIT | EDGE RECOVER        |                 |
| videostream 1 Archive V Scheduled V 0 Days                                      | ✓ Disable ✓         |                 |
| Week's day 🛛 🗸 💬  | ••••• <b>&gt;</b> E | dit days        |
|   | Monday<br>Off       | Saturday<br>Off |
| 00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 24:00   | Tuesday             | Sunday          |
| Selected time slot : 12:00 AM 🚫 : 12:00 AM 🚫 (Interval duration: 24h : 00m)     | Off •               | Off •           |
| Recording on event :  | Wednesday           |                 |
| Continuous (no event-basec≻   | Thursday            |                 |
| ACTIVE STREAM NAME ARCHIVE RECORDING TYPE MAX RETENTION (0 UNLIMITED) TIME UNIT | Off •               |                 |
| videostream 2 · Always (24/7) · 0 Days  | Friday<br>Off Off   |                 |
|   |                     |                 |
| OK Cancel   |                     |                 |
|   |                     | Cancel          |

- A. Select the stream for recording
- B. Archive: select folder for recording on hard drive. You need to add storage space first (refer to Device 1.5 Storage)
- C. Recording type: select recording schedule
  - Always (24/7): Continuous recording (24 hours a day, 7 days a week).
  - Scheduled: Select the recording time slot.



|                           | Week's day <mark>Eve</mark> | eryday      | <ul> <li>✓ …</li> </ul>        |       |
|---------------------------|-----------------------------|-------------|--------------------------------|-------|
| $\langle \square \rangle$ |                             |             |                                |       |
| <u> </u>                  | <u>Intritututi</u>          |             | <u> </u>                       | нн    |
| 00:00 02:00 04:00 06:00   | 08:00 10:00                 | 12:00 14:00 | 16:00 18:00 20:00 22:00        | 24:00 |
| Selected time slot :      | 12:00 AM 🕓 💠                | 1:00 AM 🕓   | (Interval duration: 01h : 00m) |       |

- Add schedule: Click [+] and drag left or right to adjust the time slot, or input the selected time slot.
- Delete schedule: Select the time slot you want to delete and click [-].
- Edit schedule: Select the time slot and drag left or right to adjust it, or input the selected time slot.

| Recording  | on event : | Pre-recor | ding time : |     | Post recor | ding : |     |
|------------|------------|-----------|-------------|-----|------------|--------|-----|
| AI_2.120_0 | Dbject 🗸 🗸 | Seconds   | 0           | ᠿ ─ | Seconds    | 0      | 우 — |
|            |            |           |             |     |            |        |     |

- D. Recording on event: select always (non-event triggered) or event.
  - always (non-event triggered): records according to schedule.
  - Event X: select event and set range of seconds for recording of pre and post event triggers.
  - Pre event recording: starts recording N seconds before the event is triggered.
  - Post event recording: keeps recording N seconds after the event is triggered.
     Recording range: 0 to 300 seconds
- E. Max. retention: when the recording storage space is full, clearing space will retain recording files from the previous N hours/days.

Note that if the maximum retention is 0, existing recording files will be overwritten based on the actual disk size and recording will continue.

F. Time unit: select the time unit for maximum retention space.

|                    | Available recording streams |           |                 |                             |           |                |
|--------------------|-----------------------------|-----------|-----------------|-----------------------------|-----------|----------------|
|                    |                             | ARCHIVE   | RECORDING TYPE  | max retention (0 unlimited) | TIME UNIT | EDGE RECOVER   |
|                    | videostream 0               | Archive 🗸 | Always (24/7) 🗸 | 0                           | Days 🗸    | Recover from 🗡 |
|                    |                             |           |                 |                             |           | Disable        |
| ACTIVE STREAM NAME |                             | ARCHIVE   | RECORDING TYPE  | MAX RETENTION (U UNLIMITED) |           | all            |
|                    | videostream 1               | ~         |                 |                             |           | Disable        |

- G. Edge Recover: select Recover from 24 hours ago/Disable, activate/deactivate edge recover.
  - Mechanism: prevents expected interruptions in recording caused by improper use of camera cables or deterioration of network cables causing disconnection, leading to the inability to trace past recording records.



- Advantages: When the camera disconnects from the server, preventing recording on the server's hard drive, it will instead record onto the camera's SD card. Upon reconnection to the server, Argo's failover mechanism seamlessly integrates the camera's recording into the server's hard drive, ensuring uninterrupted recording.
- Camera and System Configuration
   Divided into three parts: OMNIEYE camera settings, Argo Config system settings, and Argo Client system settings.

For OMNIEYE cameras, please insert the IP address of the camera to configure parameters for edge recover. The default IP address is 192.168.1.219

### a. OMNIEYE camera settings



Step 1. Time settings

- In advanced settings click [System]
- Select [Date and Time]

Basic settings-Synchronization Mode: Click **[Synchronize with PC].** Time zone settings- Select the correct time zone and click **[Save].** E.g. for Taiwan time, select GMT+8.



| 5tep 2.1                                       |            | . 500     | ice      |        | Serie      |          | cung   | ,5               |               |   |             |
|--|------------|-----------|----------|--------|------------|----------|--------|------------------|---------------|---|-------------|
| <u>Live View</u>   <u>Playback</u>   <b>Co</b> | onfigurati | on   E    | nglish   |        | ~          |          |        |                  |               |   |             |
| .1.  | Alarm      | Audio     | Defocus  | Motion | Network    | Schedule | Tamper | mSD healthine    | ess           |   |             |
| Advanced Configuration                         | -          | Basic Set | ting     |        |            |          |        |                  |               |   |             |
| Encode   |            | Enab      | le 🗹 🛛 🛛 | Mode F | Regular    | ~        |        | Trigger Interval |               | 5 | (5~3600)Sec |
| Image  |            | Han       | dlers    | _      | _          | _        |        |                  | -             |   |             |
| Lens Control                                   |            | T IGH     |          |        |            | _        | _      |                  |               |   |             |
| Video  |            | Alarn     | n Out    | A      | udio       |          |        |                  | Snapshot      |   | Recording   |
| Network  |            |           |          | A      | udio Out   |          |        |                  | Store to Edge |   | Edge Record |
| System   |            |           |          | A      | udio Sound |          | 1      | ~                | Store to FTP  |   |             |
| Account  |            | Emai      | 1        |        |            |          |        |                  |               |   |             |
| Event Source                                   |            | Enab      | le       |        |            |          |        |                  |               |   |             |
| Video Analytics                                |            | Subje     | ect      |        |            |          |        |                  |               |   |             |
| Event Setting                                  |            |           |          |        |            |          |        |                  |               |   |             |

### Step 2. Event Source - Time Schedule Settings

- In advanced settings click [Event Source].
- Select [Schedule]
  - In basic settings click [enable]

Basic settings - Process method - recording click [Edge record] then click [Save]

### Step 3. Event configuration- recording settings

| Live View   Playback   Configuration   English |           |             |       |                |                |          |       |                    |  |  |  |  |
|--|-----------|-------------|-------|----------------|----------------|----------|-------|--------------------|--|--|--|--|
| ىلە  | Alarm Out | Email       | FTP   | Record Setting | SD Card        | Snapshot | Sound | HTTP Generic Event |  |  |  |  |
| Advanced Configuration                         | Bas       | sic Setting |       |                |                |          |       |                    |  |  |  |  |
| Encode   |           | Record T    | уре   | Video          |                | ~        |       |                    |  |  |  |  |
| Image  |           | Record S    | tatus | Continuc       | ous            | ~        |       |                    |  |  |  |  |
| Lens Control                                   |           | Clip Size   |       | 50             | 50 (50~100 MB) |          |       |                    |  |  |  |  |
| Video  |           | Record C    | odec  | H264           | 4 ~            |          |       |                    |  |  |  |  |
| Network  |           |             |       |                |                |          |       |                    |  |  |  |  |
| System   |           |             |       |                |                |          |       |                    |  |  |  |  |
| Account  |           |             |       |                |                |          |       |                    |  |  |  |  |
| Event Source                                   |           |             |       |                |                |          |       |                    |  |  |  |  |
| Video Analytics                                |           |             |       |                |                |          |       |                    |  |  |  |  |
| Event Setting                                  |           |             |       |                |                |          |       |                    |  |  |  |  |

- In advanced settings click [Event Setting]
- Select [Record settings]

Basic settings- recording status select [continuous] and click [save]

Step 4. Event configuration - SD card



| <u>Live View</u>   <u>Playback</u>   <b>Cor</b> | Live View   Playback   Configuration   English |           |           |                |            |            |         |                    |  |  |  |  |
|---|--|-----------|-----------|----------------|------------|------------|---------|--------------------|--|--|--|--|
| <b></b>   | Alarm Out                                      | Email     | FTP       | Record Setting | SD Card    | Snapshot   | Sound   | HTTP Generic Event |  |  |  |  |
| Advanced Configuration                          | Basi   | c Setting |           |                |            |            |         |                    |  |  |  |  |
| Encode  |  | Overwrite | 4         | On             |            | ✓ (Reserve | +120MB) |                    |  |  |  |  |
| Image   | •  | Status    |           | Working n      | ormally    |            |         |                    |  |  |  |  |
| Lens Control                                    |  | Capacity  |           | 234059(M       | 'B)        |            |         |                    |  |  |  |  |
| Video   |  | Free Spac | ce        | 194333(M       | 'B)        |            |         |                    |  |  |  |  |
| Network   |  | Encrypted | 1 Mode    | Off            |            | ~          |         |                    |  |  |  |  |
| System  |  | SD Forma  | SD Format |                | 1          |            |         |                    |  |  |  |  |
| Account   |  |           |           | - onnat        | 1          |            |         |                    |  |  |  |  |
| Event Source                                    | Dow  | nload SD  | File      |                |            |            |         |                    |  |  |  |  |
| Video Analytics                                 |  | 0         | June 20   | )24 <b>D</b>   | Select All |            | No      | Folder name        |  |  |  |  |
| Event Setting                                   |  | C., Ma    | T. 14/-   | Th Fr Co       |            |            |         |                    |  |  |  |  |

- In advanced settings click [Event Setting]
- Select [SD card]
- Click **[Format]** to format the SD card and check if it is functioning properly and if the capacity is correct.
- It is recommended to enable the overwrite function (default is disabled).
   Then click [Save].
- b. Argo Config system configuration
  - Step 5. License

|          | SUMMARY OF INSTALLED LICENSES PER CHANNEL |       |      |           |       |                 |        |  |  |  |  |  |  |  |  |
|----------|---|-------|------|-----------|-------|-----------------|--------|--|--|--|--|--|--|--|--|
| CHANNELS | LICENSE NAME                              | TYPE  | USED | AVAILABLE | TOTAL | EXPIRATION DATE | STATUS |  |  |  |  |  |  |  |  |
| LICENSE  | Omnieye Advanced Series channel license   | Trial | 2    | 6         | 8     | 9/15/2024       | ОК     |  |  |  |  |  |  |  |  |
|          | ONVIF channels license                    | Trial | 2    | 6         | 8     | 9/15/2024       | OK     |  |  |  |  |  |  |  |  |
|          | RFID reader license                       | Trial | 1    | 0         | 1     | 9/5/2024        | ок     |  |  |  |  |  |  |  |  |

 Check Argo license status to see if there is a channel available for the OMNIEYE Advanced Series.

Step 6. Add device - video devices



| Add de                 | evices to r             | ecorder: Recorder       | r on SPARK (spark     | )          |            |           |                    |   |
|------------------------|-------------------------|-------------------------|-----------------------|------------|------------|-----------|--------------------|---|
| Username               |                         | Password                |                       |            |            |           |                    |   |
|                        |                         |                         |                       |            | Protocol 7 |           | Filter 🏹           |   |
| Se Se                  | lect all available (    | devices                 |                       |            | ALL        | ~         |                    |   |
| Selection              | Address                 | Model name              | Product code          | MAC Addres | s Vendor   | Status    | Added to recorders |   |
|                        | 192.168.1.24            | Omnieye Advanced Series | SR-C-A5-DM2-V13-IR-8  | 20:E4:     | Spark      | Available |                    | Î |
|                        | 192.168.1.25            | Omnieye Advanced Series | SR-C-A5-DM2-V13-IR-5  | 20:E4:     | Spark      | Available |                    |   |
|                        | 192.168.1.26            | Omnieye Advanced Series | SR-C-A5-DM2-V13-IR-4  | 20:E4:     | Spark      | Available |                    |   |
|                        | 192.168.1.27            | Omnieye Advanced Series | SR-C-A5-DM2-V13-IR-7  | 20:E4:     | Spark      | Available |                    |   |
|                        | 192.168.1.28            | Omnieye Advanced Series | SR-C-A5-DM2-V13-IR-11 | 20:E4:     | Spark      | Available |                    |   |
|                        | 192.168.1.29            | Omnieye Advanced Series | SR-C-A5-DM2-V13-IR-6  | 20:E4:     | Spark      | Available |                    |   |
|                        |                         |                         |                       |            |            |           |                    |   |
| 114 Device<br>0 Device | es found<br>es selected |                         |                       |            |            | Scan      | Add                |   |

- Please refer to 1.2.1

### Step 7. Edit device - video devices

| $\equiv$     | ARGO CONFIG       |                                |                                |   |                 | 🕓 Tuesday, Jun            | e 11, 2024 08:50:24 AM     | 8 admin@spark  | - ¤ × |
|--------------|-------------------|--------------------------------|--------------------------------|---|-----------------|---------------------------|----------------------------|----------------|-------|
| $\hat{\Box}$ | ₽ª Devices        | Recorder on SPARK              |                                |   |                 |                           |                            |                |       |
| ₽*           | Recorder on SPARK | statistics 🗸                   |                                |   |                 |                           |                            |                |       |
| <u>A</u> e   |                   |                                | VIDEO DEVICES                  | I/O MODULES                                       | OTHER SETTING   | GS STORAGE                | INFO                       |                |       |
|              |                   | Bar Select all                 |                                |   |                 |                           |                            |                |       |
| -120         |                   | VIDEO DEVICES SELECT ADDRESS   | MODEL NAME                     | STATUS  | DEVICE NAME REC | CORDING ENABLED           |                            |                |       |
| ĽÝ           |                   | 192.168.2.232                  | BM2                            | Ready   | Camera 1 No     |                           |                            |                |       |
|              |                   | 192.168.2.120                  | Edit camera                    | neauy   |                 |                           |                            |                |       |
| 1            |                   | 192.168.2.235                  | Enable carrena                 |   |                 | SPARK                     |                            |                |       |
| යා           |                   |                                | Frand Model<br>Spank V Druck   | 4<br>Nye Achanced Senos V                         |                 |                           | spark.                     |                |       |
|              |                   |                                | Address Port<br>192.165.2.17 0 |   |                 |                           | . 1112 1                   |                |       |
|              |                   |                                |                                |   |                 |                           | 9.00                       | 3              |       |
| 6            |                   |                                | admin Passwo                   | ord<br>   |                 | 1 L                       | 8765                       |                |       |
|              |                   |                                | Protocol                       |   |                 | -                         | anath                      |                |       |
|              |                   |                                | RTSP over TCP V                |   |                 | 33                        | Spa                        |                |       |
|              |                   |                                | Available profiles             | COL CODEC RESOLUTIO                               | IN FPS TAGS     |                           |                            |                |       |
|              |                   |                                | videostream 0 RTSP or          | over TCP H264 1920x1080<br>over TCP H264 1280x720 |                 |                           |                            |                |       |
|              |                   |                                | videostream 2 RTSP or          | over TCP H264 323x248                             | » HMLT          |                           |                            |                |       |
|              |                   |                                | Active STREAM NAME             |   | ARCHIVE         | RECORDING TYPE MAX RETENT | ION (O UNUMITED) TIME UNIT | EDGE RECOVER   |       |
|              |                   |                                | videostream 0                  |   | Archive 🗸       | Always (24/7) ¥ 0         | Days 🗸                     | Recover from ~ |       |
| ٥            |                   |                                |                                |   |                 | RECORDING TYPE MAX RITENT | Days                       |                |       |
| \$\$\$       |                   | 1 Selected                     | ACTIVE STREAM NAME             |   |                 |                           |                            |                |       |
| 8            |                   | Video Devices                  |                                |   |                 | (Internet Article         | Digit w                    |                |       |
| 8            |                   | 4 Video devices<br>1 Recording |                                |   | CK              | Carcel                    |                            |                |       |
| U            | Add Delete        | devices                        |                                |   |                 |                           | Scan Ad                    | d Delete       | Edit  |

- Select device and click [edit]
- After selecting available profiles, set the failover setting to [Recover from 24 hours ago]
- c. Argo Client system configuration



### Step 8. monitoring interface



In Argo Client, select the camera for which you want to view the failover \_ recording, then click [Instant Replay].

Step 9. Replay



Select camera disconnection time slot to replay the failover recording.



# 1.2.3 Delete video device

| $\equiv$      | ARGO CONFIG         |                        |                |                     |            |                 |            | 🕔 Tuesday, Ju     | une 11, 2024 09:0 | 9:19 AM   8 a | admin@spark | - 0 × |
|---------------|---------------------|------------------------|----------------|---------------------|------------|-----------------|------------|-------------------|-------------------|---------------|-------------|-------|
| $\hat{\Box}$  | 🖬 Devices           | Recorder on            | SPARK          |                     |            |                 |            |                   |                   |               |             |       |
| ₽             | S Recorder on SPARK | statistics 🗸           |                |                     |            |                 |            |                   |                   |               |             |       |
| &             |                     |                        |                | VIDEO DEVICES       | I/O MOD    | ULES            | OTHER SETT | TINGS STORAGE     | INFO              | -             |             |       |
| *             |                     |                        | Select all * O |                     |            |                 |            |                   |                   |               |             |       |
| - <u>as</u> - |                     |                        | 192.168.2.23   | MODEL NAME          |            | STATUS<br>Ready | Camera 1   | RECORDING ENABLED |                   |               |             |       |
| u<br>u        |                     |                        | 192.168.2.17   | BM2                 |            | Ready           | Camera 2   |                   |                   |               |             |       |
|               |                     |                        | 192.168.2.120  | B1 2000 Middle Bull | let Camera | Ready           | Camera 3   | Yes               |                   |               |             |       |
| а́с,          |                     |                        | 192.168.2.23   | 5 SR-C-A2-DF1-F3-IR |            | Ready           | Camera 4   | No                |                   |               |             |       |
| đĐ            |                     |                        |                |                     |            |                 |            |                   |                   |               |             |       |
| e,            |                     |                        |                |                     |            |                 |            |                   |                   |               |             |       |
| æ             |                     |                        |                |                     |            |                 |            |                   |                   |               |             |       |
|               |                     |                        |                |                     |            |                 |            |                   |                   |               |             |       |
|               |                     |                        |                |                     |            |                 |            |                   |                   |               |             |       |
| _             |                     |                        |                |                     |            |                 |            |                   |                   |               |             |       |
|               |                     |                        |                |                     |            |                 |            |                   |                   |               |             |       |
| \$            |                     | 1 Selected             |                |                     |            |                 |            |                   |                   |               |             |       |
| 8             |                     | 4 Video devices        |                |                     |            |                 |            |                   |                   |               |             |       |
| ô             | Add Delete          | 2 Recording<br>devices |                |                     |            |                 |            |                   | Scan              | Add           | Delete      | Edit  |

- Select the devices you want to delete and then click [delete] at the bottom right.

### 1.2.4 Preview video devices

| Ξ               |  |                |                                    |                                 |             | Q         | Tuesday, June 11, 2024 09:13:23 | AM   🖇 admin@spark=pk   - 🖉 🛛 🛛 |
|-----------------|--|----------------|------------------------------------|---------------------------------|-------------|-----------|---------------------------------|---------------------------------|
|                 | 🛱 Devices                                | SPARK Camera 2 |                                    |                                 |             |           |                                 | Open web UI                     |
| B               | Recorder on SPARK                        |                |                                    |                                 |             |           |                                 |                                 |
| Ou.             |  | Camera 2       | 10110120                           |                                 |             | -         | 1                               | © ıll +¤                        |
| o<br>           |  |                | 0 0 0                              |                                 |             | Sta St    | Dark                            |                                 |
|                 | Camera 2                                 |                |                                    | And the second                  |             | 10        |                                 |                                 |
| ts <sup>p</sup> | 1921602177                               |                |                                    | 100                             | •           | 1114      | - 1                             |                                 |
|                 | 423 192.1463.120                         |                |                                    | 15-                             |             | 0         | 2                               |                                 |
| di.             | Usines228                                |                |                                    | 1990                            |             |           | FRANCO 3                        |                                 |
| -               | ✓ «Per I/O Modules ✓ OD South al Service |                |                                    |                                 |             | -         | 4                               |                                 |
| съ              | • • • Junit Al Junite                    |                | and the second                     |                                 |             | 7 4       | 5                               |                                 |
| E,              |  |                |                                    | 1 and the                       |             | And and   |                                 |                                 |
| 6               |  |                |                                    | - A CONTRACTOR                  |             |           |                                 |                                 |
|                 |  |                |                                    | MAL                             | park        |           |                                 |                                 |
|                 |  |                |                                    | W. S. S.                        | par         |           |                                 | Q 🗘                             |
|                 |  |                |                                    | DATE AND TIME                   | PROFILES    | ANALYTICS | MAINTENANCE INFO                | <b>5</b>                        |
|                 |  |                | MAC ADDRESS                        |                                 |             |           |                                 |                                 |
|                 |  | MAC ADDRESS    |                                    |                                 |             |           |                                 |                                 |
|                 |  | <b>PV</b>      | рнср                               |                                 |             |           |                                 |                                 |
|                 |  | IPV4           | off •                              |                                 |             |           |                                 |                                 |
|                 |  |                | 192.168.2.17                       | 255.255.255.0                   | 192.168.2.1 |           |                                 |                                 |
| .PQ.            |  |                |                                    |                                 |             |           |                                 |                                 |
| .046            |  |                |                                    |                                 |             |           |                                 |                                 |
| 8               |  |                | PREFERRED DNS SERVER<br>168.95.1.1 | ALTERNATE DNS SERVER<br>0.0.0.0 |             |           |                                 |                                 |
| ő               |  |                |                                    |                                 |             |           |                                 |                                 |

- Click [Preview]



### 1.2.5 Video devices configurations

| $\equiv$     |  |           |                  |                               |                      |             |           | () Tuesday, June 11, 2024 ( | 9:27:28 AM | 8 admin@spark¤pk   − |
|--------------|--|-----------|------------------|-------------------------------|----------------------|-------------|-----------|-----------------------------|------------|----------------------|
| $\hat{\Box}$ | ☐ <sup>10</sup> Devices  | ⊑Ø Camera |                  |                               |                      |             |           |                             |            | Open web UI          |
| Bª           | Recorder on SPARK/I/K  | PREVIEW 🗸 |                  | NEDLIOOK                      |                      |             |           |                             |            |                      |
| æ            | ∧ end to be a construction of the construc |           |                  | NETWORK                       | DATE AND TIME        | PROFILES    | ANALTTICS | MAINTENANCE                 | INFO       |                      |
| ₩            | ☐g Camera 1<br>#### 192.1662232  |           | MA               | C ADDRESS<br>D:e4:07:00:47:7a |                      |             |           |                             |            |                      |
| ~            | 0 Camera 2<br>992.1682.17  | (IPV4)    | Іон              | ICP                           |                      |             |           |                             |            |                      |
| R.           | Camera 3<br>#021622120   | UPV4      | l <sup>Off</sup> | r <b>O</b>                    |                      |             |           |                             |            |                      |
|              | Camera 4<br>192.168.2.235  |           | ADI              | DRESS                         | SUBNET               | GATEWAY     |           |                             |            |                      |
| ŝ            | ✓ ≪⊗ I/O Modules   |           | 19               | 92.168.2.17                   | 255.255.255.0        | 192.168.2.1 |           |                             |            |                      |
| ₫            | ✓ ゆう Spark Al Service  |           |                  | itam DNS server address auto  |                      |             |           |                             |            |                      |
| B            |  |           | PRE              | EFERRED DNS SERVER            | ALTERNATE DNS SERVER |             |           |                             |            |                      |
|              |  |           | 16               | 68.95.1.1                     | 0.0.0.0              |             |           |                             |            |                      |
| e            |  | ://_      | HTT              | TP PORT                       |                      |             |           |                             |            |                      |
|              |  | HTTP PORT | 80               | 0                             |                      |             |           |                             |            |                      |
|              |  | PTSP      | RTS              | SP PORT                       |                      |             |           |                             |            |                      |
|              |  | RTSP PORT | 55               | 54                            |                      |             |           |                             |            |                      |
|              |  |           |                  |                               |                      |             |           |                             |            |                      |
|              |  |           |                  |                               |                      |             |           |                             |            |                      |
|              |  |           |                  |                               |                      |             |           |                             |            |                      |
| Γ            |  |           |                  |                               |                      |             |           |                             |            |                      |
|              |  |           |                  |                               |                      |             |           |                             |            |                      |

- Network: edit device network settings
  - MAC address: unable to edit.
  - IPV4: When DHCP is enabled, you can edit the IP address, subnet mask, and gateway.
  - When automatic acquisition of DNS server addresses is enabled, you can edit the preferred DNS server and alternate DNS server.
  - HTTP PORT: modify the HTTP port address if needed.
  - RTSP PORT: modify the RTSP port address if needed.

|                       |   |   | NETWORK   | DATE AND TIME | PROFILES | ANALYTICS | MAINTENANCE | INFO |
|-----------------------|---|---|---|---------------|----------|-----------|-------------|------|
| ≝<br>DATE AND<br>TIME |   | CURRENT D/<br>06/11/2024<br>CURRENT PC<br>06/11/2024                    | ATE AND TIME<br>09:30:45 AM<br>C DATE AND TIME<br>09:30:46 AM |               |          |           |             |      |
| ()<br>SYNC            | 1 | MANUAL SE<br>On<br>Synchronize<br>Off<br>06/11/2024<br>SYNCHRONI<br>Off | ITINGS<br>with client PC<br>09:12:04 AM<br>ZE WITH NTP        | #             |          |           |             |      |

- Date and time: Edit device date and time settings.
  - Date and Time: Browse current date and time, and computer date and time.



|             |   | NETWORK   | DATE AND TIME   | PROFILES  | ANALYTICS  | MAINTENANCE     | INFO |
|-------------|---|---|---|---|--|-----------------|------|
| DATE AND    |   | CURRENT DATE AND TIME<br>06/11/2024 09:29:05 AM<br>CURRENT PC DATE AND TIME<br>06/11/2024 09:29:06 AM |   |   |  |                 |      |
| (j)<br>SYNC | 1 | MANUAL SETTINGS<br>Off • • • • • • • • • • • • • • • • • •  | Test<br>d locally through the host P<br>properly the device will no<br>rver network settings. | *<br>C network connectio<br>t be able to reach th | n: this means that if th<br>e NTP server correctly | ie device<br>7. |      |

- Sync: Enable manual settings to turn on/off synchronization with the client and NTP synchronization.
- Server 1~3 Dialogs input NTP server address and click test to check NTP status.

|          |  |        | NETWOR        | K DATE A      | ND TIME | PROF       | LES | ANALYTICS | MAINTENANCE | INFO |  |
|----------|--|--------|---------------|---------------|---------|------------|-----|-----------|-------------|------|--|
|          |  | SELECT | STREAM NAME   | PROTOCOL      | CODEC   | RESOLUTION | FPS | ENABLED   |             |      |  |
| PROFILES |  |        | videostream 0 | RTSP over TCP | H264    | 1920x1080  | 30  | Yes       |             |      |  |
|          |  |        | videostream 1 | RTSP over TCP | H264    | 1280x720   | 5   | Yes       |             |      |  |
|          |  |        | videostream 2 | RTSP over TCP | H264    | 320x240    | 30  | Yes       |             |      |  |
|          |  |        |               |               |         |            |     |           |             |      |  |

- Profiles: select the stream you want to edit for advanced settings.

|           | _ | NETWORK             | DATE AND T | TIME PI           | ROFILES | ANALYTICS      | MAINTENA                       | NCE | INFO |
|-----------|---|---------------------|------------|-------------------|---------|----------------|--------------------------------|-----|------|
| ANALYTICS |   | Mot                 | ion        | Tamp              | Pering  |                | <b>0)()0</b><br><sub>dio</sub> |     |      |
|           |   | Trip                | Nire       | (())<br><br>Intro | usion   | ۞<br><br>Loite | ering                          |     |      |
|           |   | ((ૣ)) (<br><br>Depa | rture      | With              | drawn   | Adver          | (r〕)<br>(、、)<br>seway          |     |      |
|           |   | Abar                | don.       |                   |         |                |                                |     |      |

- Analytics: preview device video analytics status.



|                           |                  | NETWORK  | DATE AND TIME | PROFILES | ANALYTICS | MAINTENANCE | INFO |
|---------------------------|------------------|----------|---------------|----------|-----------|-------------|------|
| CU <sup>®</sup><br>REBOOT | Reboot           |          |               |          |           |             |      |
| BACKUP AND                | BACKUP<br>Backup |          |               |          |           |             |      |
| RESTORE                   | RESTORE DI       | EFAULTS  |               |          |           |             |      |
|                           |                  |          |               |          |           |             |      |
|                           | Restore          |          |               |          |           |             |      |
|                           | RESTORE W        | ITH FILE |               |          |           |             |      |
|                           |                  |          |               |          |           |             |      |
|                           |                  |          |               |          |           |             |      |
|                           |                  |          | Browse        |          |           |             |      |
| FIRMWARE                  | Upgrade          |          |               |          |           |             |      |

- Maintenance: edit device maintenance settings.
  - Reboot: Restart device.

\_

- Backup: Backup device settings.
- Restore: Restore device settings.
- Firmware: Update firmware version of the camera.

|  |                             | NETWORK          | DATE AND TIME | PROFILES | ANALYTICS | MAINTENANCE | INFO |
|--|-----------------------------|------------------|---------------|----------|-----------|-------------|------|
|  | MODEL NAM<br>BM2            | 1E               |               |          |           |             |      |
|  | ADDRESS<br>192.168.2.17     |                  |               |          |           |             |      |
|  | VENDOR<br>Spark             |                  |               |          |           |             |      |
|  | SERIAL NUM<br>AS21300005    | BER<br>5         |               |          |           |             |      |
|  | PRODUCT CO<br>SR-C-A5-BM    | DDE<br>I2-V13-IR |               |          |           |             |      |
|  | FIRMWARE V<br>01.21.1.8.250 | VERSION<br>051   |               |          |           |             |      |
|  | DEVICE NAM<br>Camera 2      | IE               |               |          |           |             |      |

- Info: browse device information



### 1.2.6 Open device web interface

| Ξ            | ARGO CONFIG                                    | -         |        |                         |            |               |          | C         | 🖸 Tuesday, June 11, 2024 | 10:01:42 AM | & admin@spark¤pk   −                  |
|--------------|--|-----------|--------|-------------------------|------------|---------------|----------|-----------|--------------------------|-------------|---------------------------------------|
| $\hat{\Box}$ | E <sup>4</sup> Devices                         | Бакк Can  | nera 2 |                         |            |               |          |           |                          |             | Open web UI                           |
| ₽ª           | Recorder on SPARK/IVK     weining = 1921062240 | preview 🗸 |        |                         |            |               |          |           |                          |             | · · · · · · · · · · · · · · · · · · · |
| <u>B</u> e   | ∧ 🖭 Q Video devices                            |           |        |                         | NETWORK    | DATE AND TIME | PROFILES | ANALYTICS | MAINTENANCE              | INFO        | ·                                     |
| -            | Carnera 1                                      | Ö         |        | MODEL NAP<br>BM2        | ИE         |               |          |           |                          |             |                                       |
| ~5           | Camera 2                                       | INFO      |        | ADDRESS                 |            |               |          |           |                          |             |                                       |
| L)<br>R      | Terrar 3 192,1562,150                          |           |        | 192.168.2.1             |            |               |          |           |                          |             |                                       |
| -121         | Camera 4                                       |           |        | Spark                   |            |               |          |           | $\frown$                 |             |                                       |
| Ŕ            | ✓ aff⊕ I/O Modules                             |           |        | SERIAL NUN<br>AS2130000 | IBER<br>55 |               |          |           | ON                       | 1N          | IEYE                                  |
| ¢            | マ 御 Spark Al Service                           |           |        | PRODUCT C               | ODE        |               |          |           | CE                       | 211         | DITV                                  |
| E,           |  |           |        | SR-C-A5-BM              | 42-V13-IR  |               |          |           | JE                       |             | RIIT                                  |
| ₽            |  |           |        | 01.21.1.8.25            | 051        |               |          |           |                          |             |                                       |
| -            |  |           |        | DEVICE NAM              | ИE         |               |          |           | 使用者名稱                    |             |                                       |
|              |  |           |        | Current L               |            |               |          |           | 密碼                       |             |                                       |
|              |  |           |        |                         |            |               |          |           | 語言                       |             |                                       |
|              |  |           |        |                         |            |               |          |           | 繁雜中文 🗸                   |             |                                       |
|              |  |           |        |                         |            |               |          |           | 登入                       |             |                                       |
|              |  |           |        |                         |            |               |          |           |                          |             |                                       |
|              |  |           |        |                         |            |               | - 24     |           |                          |             |                                       |

- Click on [Open Web UI]
- Username: insert username
- Password: insert password
- Language: select language

### 1.3 I/O Module

### 1.3.1 Add I/O module (Scan devices/Add device to recorder manually)

| Α.       | Scan | device |
|----------|------|--------|
| <i>,</i> | Scan | actice |

| $\equiv$        |   |                         |              |           |                  |                      |              | 🕚 Tuesday         | , June 11, 2024 | 4 10:20:04 AM | │ & admin@spark¤pk |  |
|-----------------|---|-------------------------|--------------|-----------|------------------|----------------------|--------------|-------------------|-----------------|---------------|--------------------|--|
| $\hat{\Box}$    | 🗗 Devices                                   | Recorder on SP.         | ARK          |           |                  |                      |              |                   |                 |               |                    |  |
| B               | Recorder on SPARK.<br>spatiaje 192.1162.240 | statistics $\checkmark$ |              |           |                  |                      |              |                   |                 |               |                    |  |
| 8               | ▲ 🖭 Video devices                           |                         | -            | VIDEO DEV | ICES I           | O MODULES            | OTHER SETTI  | NGS STORAG        | SE IN           | IFO           |                    |  |
| *               | Camera 1<br>MARK 100.0002202                |                         | Select all   |           |                  | -                    |              |                   |                 |               |                    |  |
| ~\$             | Camera 2<br>SPARK TROJUGE 177               |                         | 192.168.2.9  | ICPDAS    | tET-PD2POR2      | Ready I/O N          | CE NAME      |                   |                 |               |                    |  |
| L)<br>L)        | Camera 3<br>190.5682120                     |                         | 192.168.2.19 | Pongee    | UHF101           | Ready I/O N          | Module 2     |                   |                 |               |                    |  |
| *               | Camera 4<br>190.5602235                     |                         |              |           |                  |                      |              |                   |                 |               |                    |  |
| а́б,            | ົ∧ ⊲ີ່ຈະ I/O Modules                        |                         |              |           | Add              | 1/O module           | es to recor  | der: Recorde      | r on SPA        | RK (spar      | h                  |  |
| ්ච              | VO Module 1                                 |                         |              |           | Auu              |                      | es lo recort | Jei. Recolue      | I UII SFA       | inn (span     | N)                 |  |
| e,              | VO Module 2<br>1982/0662/19                 |                         |              |           |                  | Select all available | devices      |                   |                 | Filt          | er 🍸               |  |
| <b>e</b>        | ✓ 例 Spark AI Service                        |                         |              |           |                  |                      |              |                   |                 |               |                    |  |
|                 |   |                         |              |           |                  |                      |              |                   |                 |               |                    |  |
|                 |   |                         |              |           | Select           | ion Address          | Product code | MAC Address       | Vendor          | Status        | Added to recorders |  |
|                 |   |                         |              |           |                  |                      | tET-PD2POR2  | 00:0D:E0:64:83:D4 | ICPDAS          | Added         | Recorder on SPARK  |  |
|                 |   |                         |              |           |                  |                      |              |                   |                 |               |                    |  |
|                 |   |                         |              |           |                  |                      | tDS-715_Rev8 | 00:0D:E0:81:0C:6F | ICPDAS          | Available     |                    |  |
|                 |   |                         |              |           |                  | 192.168.2.19         | tDS-715_Rev8 |                   |                 | Available     |                    |  |
|                 |   |                         |              |           |                  |                      |              |                   |                 |               |                    |  |
| ⊿               |   |                         |              |           | 4 Devi<br>0 Devi | ces found            |              |                   |                 |               | Add Close          |  |
| \$ <u>\$</u> \$ |   |                         |              |           | U Dett           |                      |              |                   |                 |               |                    |  |
| 8               |   |                         |              |           |                  |                      |              |                   | J               | 4             |                    |  |
| ñ               |   | 21/O Mathia             |              |           |                  |                      |              |                   |                 |               |                    |  |
| U               |   | 2 I/O Modules           |              |           |                  |                      |              |                   | Scan            | - I A         | Delete             |  |

- Click on [Scan]
- Select I/O modules you want to add



# Autocons P Devices </ta

B. Add devicews to recorder manually I/O modules

- Click on [Add]

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- Name: insert I/O module name
- Enter the device port number (default is 0, for Pongee devices enter 4001).
- Brand: select I/O module brand

| Brand     | Description   |
|-----------|---|
| Advantech | Advantech' s I/O module for connecting DIDO devices |
| Pongee    | Pongee's I/O modules: RFID reader                   |
| ICPDAS    | ICPDASs I/O module for connecting DIDO devices      |



### 1.3.2 Edit I/O modules

|               | _              | VIDEO DEV | /ICES I/     | D MODULES |                                       | STORAGE | INFO | _   |        | I    |
|---------------|----------------|-----------|--------------|-----------|---------------------------------------|---------|------|-----|--------|------|
| 40            | Select all     |           |              |           |                                       |         |      |     |        |      |
| I/O MODULES   | SELECT ADDRESS | VENDOR    | MODEL NAME   | STATUS    | DEVICE NAME                           |         |      |     |        |      |
|               | 192.168.2.9    | ICPDAS    | tET-PD2POR2  | Ready     | I/O Module 1                          |         |      |     |        |      |
|               | 192.168.2.19   | Pongee    | UHF101       | Ready     | I/O Module 2                          |         |      |     |        |      |
|               |                |           |              |           |                                       |         |      |     |        |      |
|               |                |           |              |           |                                       |         |      |     |        |      |
|               |                |           | ≪∞ Edit I,   | /O moc    | dule                                  |         |      |     |        |      |
|               |                |           | Enabled      |           |                                       |         |      |     |        |      |
|               |                |           |              |           |                                       |         |      |     |        |      |
|               |                |           | Name         |           |                                       |         |      |     |        |      |
|               |                |           | I/O Module 1 |           |                                       |         |      |     |        |      |
|               |                |           | Brand        |           |                                       |         |      |     |        |      |
|               |                |           | ICPDAS       |           |                                       |         |      |     |        |      |
|               |                |           | Address      |           | Port (0 or empty value means default) |         |      |     |        |      |
|               |                |           | 192.168.2.9  |           | 0                                     |         |      |     |        |      |
|               |                |           |              |           |                                       |         |      |     |        |      |
|               |                |           |              |           |                                       |         |      |     |        |      |
|               |                |           |              |           |                                       |         |      |     |        |      |
|               |                |           |              |           |                                       |         |      |     |        |      |
|               |                |           |              |           |                                       |         |      |     |        |      |
|               |                |           |              |           |                                       |         |      |     |        |      |
|               |                |           |              |           |                                       |         |      |     |        |      |
| 2 I/O Modules |                |           |              |           |                                       |         | Scan | Add | Delete | Edit |

- Select the I/O module you want to edit and click [Edit]
- Enable I/O device: enable/disable I/O device
   Name: edit device name
- IP address: editing IP address might render the device unusable
- Port: Edit device port number (default is 0, for Pongee devices enter 4001).

### 1.3.3 Delete I/O modules

|               |   |        | _            | VIDEO DE | vices i/    |        | S OTHER SETTINGS STORAGE | INFO | _   |        |      |
|---------------|---|--------|--------------|----------|-------------|--------|--------------------------|------|-----|--------|------|
| \$\$          | I | 🔲 s    | elect all    |          |             |        |                          |      |     |        |      |
| I/O MODULES   |   | SELECT | ADDRESS      | VENDOR   | MODEL NAME  | STATUS | DEVICE NAME              |      |     |        |      |
|               |   |        | 192.168.2.9  | ICPDAS   | tET-PD2POR2 | Ready  | I/O Module 1             |      |     |        |      |
|               |   |        | 192.168.2.19 | Pongee   | UHF101      | Ready  | I/O Module 2             |      |     |        |      |
|               |   |        |              |          |             |        |                          |      |     |        |      |
|               |   |        |              |          |             |        |                          |      |     |        |      |
|               |   |        |              |          |             |        |                          |      |     |        |      |
|               |   |        |              |          |             |        |                          |      |     |        |      |
|               |   |        |              |          |             |        |                          |      |     |        |      |
|               |   |        |              |          |             |        |                          |      |     |        |      |
| 2 I/O Modules |   |        |              |          |             |        |                          | Scan | Add | Delete | Edit |

- Select the I/O module you want to delete and click [Delete]



### **1.3.4 Browse I/O modules information and status**

| $\equiv$   | ARGO CONFIG               |                                | $\odot$ Tuesday, June 11, 2024 10:34:46 AM $\parallel$ $\&$ admin@spark@pk $\parallel$ $=$ $\square$ $\times$ |
|------------|---------------------------|--------------------------------|---|
|            | 🗗 Devices                 | ✔ I/O Module 1                 |   |
|            | Recorder on SPARK/J-K     |                                |   |
| පී         | ∧ 🦭 Video devices         | 0 ADDRESS                      |   |
| -          | Camera 1<br>192-1952-2522 | INFO INCLOSES<br>MAC ADDRESS   |   |
| - <u>-</u> | 0 Camera 2                | 00.0d.e0 54.83 d4              |   |
| ម          | Camera 3                  | ICPDAS                         |   |
| 4          | Camera 4                  | MODEL NAME<br>IET-PD2POR2      |   |
| жĘ,        | へ d'e I/O Modules         |                                |   |
|            | ✓                         | NDI ITS                        |   |
|            | 1/0 Module 2              | STATUS I/O input 1             |   |
| æ          | ✓ ゆう Spark AI Service     | <ul> <li>VO input 3</li> </ul> |   |
|            |                           | LO output 0 Activate           |   |
|            |                           | OUTPUTS I/O output 1 Activate  |   |
|            |                           | I/O output 2     Activate      |   |
|            |                           | I/O output 3     Activate      |   |
|            |                           |                                |   |

- Information: View I/O module information.
- Input Status: View input status through indicator lights.
- Output Status: View output activation status through indicator lights.

### **1.4 Other settings**

### **1.4.1 Database options**

| $\equiv$     | ARGO CONFIG   |          |                     |                            |             |                | 🕓 Tuesday, June | 11, 2024 10:36:42 AM | 8 admin@spark¤pk | - a ×  |
|--------------|---|----------|---------------------|----------------------------|-------------|----------------|-----------------|----------------------|------------------|--------|
| $\hat{\Box}$ | 🗗 Devices   | Recorder | r on SPARK小K        |                            |             |                |                 |                      |                  |        |
| B            | へ 🔗 Recorder on SPARK小K                             |          |                     |                            |             |                |                 |                      |                  |        |
| 00           | Sparleyk-1521662240 ✓ ⊕ <sub>71</sub> Video devices |          |                     | VIDEO DEVICES              | I/O MODULES | OTHER SETTINGS | STORAGE         | INFO                 |                  |        |
| ď            | ✓ «®» I/O Modules                                   |          |                     |                            |             |                |                 |                      |                  | Î      |
| -414-<br>205 | ✓ 御 Spark AI Service                                | DATABASE | Al DataBase         |                            |             |                |                 |                      |                  |        |
| r\$          |   | OPTIONS  | spirt me interval   | + -                        | Dave        |                |                 |                      |                  |        |
| ۵.           |   |          | Potentian daux      | 1 -                        | Days        |                |                 |                      |                  |        |
|              |   |          | 10                  | + -                        | Dave        |                |                 |                      |                  |        |
| ŝ            |   |          | AL DD DataBase      | 1                          | Days        |                |                 |                      |                  |        |
| ഷ            |   |          | Split file interval |                            |             |                |                 |                      |                  |        |
| e,           |   |          | 1                   | + -                        | Days        |                |                 |                      |                  |        |
| ₽            |   |          | Retention days      |                            |             |                |                 |                      |                  |        |
| -            |   |          | 10                  | + -                        | Days        |                |                 |                      |                  |        |
|              |   |          | Event Manager I     | DataBase                   |             |                |                 |                      |                  |        |
|              |   |          | Split file interval |                            |             |                |                 |                      |                  |        |
|              |   |          | 1                   | + -                        | Days        |                |                 |                      |                  |        |
|              |   |          | Retention days      |                            |             |                |                 |                      |                  |        |
|              |   |          | 10                  | + -                        | Days        |                |                 |                      |                  |        |
|              |   |          | DB Storage Path     |                            |             |                |                 |                      |                  |        |
|              |   |          | SELECT TYPE         | DRIVE MAX SIZE             | FREE SPACE  |                |                 |                      |                  |        |
| ►            |   |          | O disk [            | 237.23 GB<br>D:\ 931.39 GB | 312.81 GB   |                |                 |                      |                  |        |
| ₽LJ          |   |          |                     |                            |             |                |                 |                      |                  |        |
| ۵            |   |          |                     |                            |             |                |                 |                      |                  |        |
| •            |   |          |                     |                            |             |                |                 |                      |                  | J      |
| Ŭ            | Add Delete  |          |                     |                            |             |                |                 |                      | Save             | Cancel |

- A. AI Database: Records usage data related to AI functions in Spark Recorder.
- B. AI License Plate Recognition Database: Records usage data related to license plate recognition functions in Spark Recorder.
- C. Event Management Database: Records usage data related to event management functions in Spark Recorder.



- File Split Interval: Interval of time for database record files. Click [+] / [-] to increase/decrease the number of days.
- Retention Days: When the database record file storage space is full, specify the number of hours/days of recording files to retain before the current day. Click [+] / [-] to increase/decrease the number of days.
   Note: File split interval ranges from 1 to 100 days, retention days range from 10 to 1000 days.
- D. Database Storage Directory: Directory on the hard drive where the database can be stored in Spark Recorder.

### 1.4.2 External Network Settings

| EXTERNAL<br>NETWORK | Public ip address and port External IP |             |
|---------------------|--|-------------|
| SETTINGS            | o.o.o.d                                |             |
|                     | 0                                      | (0 ~ 65535) |
|                     | Listen port                            |             |
|                     | 20842                                  | (0 ~ 65535) |

- External address: the local WAN (Wide Area Network) IP address used for external communication. This function supports switching to sending short links via Line Notify.
- Communication Forwarding Port: insert the port number used as the external communication port to the router.

Port Range: 0 to 65535 [Default value: 20842]

Listening Port: insert the port number used by Argo to receive data.
 Port Range: 0 to 65535 [Default value: 20842]

Note:

a. Short links can replace sending photos via LINE Notify, avoiding reaching the limit of sending photos via LINE.

- b. The WAN IP address can be checked using <a href="https://www.whatismyip.com.tw/tw/">https://www.whatismyip.com.tw/tw/</a>
- c. The router must support Port Forwarding functionality to set up port forwarding.



d. It is recommended to disable the computer firewall to ensure this function operates correctly.

e.Use NGROK forwarding service for communication port redirection settings.

### Applying for Ngrok Account Tutorial Requires Application on a Computer

Step 1: Use Google or Edge to search for Ngrok and go to the official Ngrok website at <a href="https://ngrok.com/">https://ngrok.com/</a>.

### Step 2: Click "Sign Up" to start the process.





Step 3: Enter Ngrok name, email, and password to log in.

| ngro                            | k                     |
|---------------------------------|-----------------------|
| Sign up                         |                       |
| Name                            |                       |
| Email                           |                       |
| @gmail.com                      |                       |
| Password                        | <del>کبر</del> (      |
| 我不是機器人                          | reCAPTCHA<br>题私權 - 陳款 |
| I accept the terms of service a | and privacy policy    |
| Sign up                         |                       |

Step4.Go to the email inbox to confirm the account.



Step 5. Click the link in the email to confirm the account.





Step 6. Ngrok will display a QR code and authentication code. It is recommended to use a smartphone to scan the QR code for authentication. Click "Next" to proceed.

Note: Please complete Step 6 before clicking "Next". You can use the Microsoft Authenticator app or Google Authenticator app to scan for authentication.

|  | -factor Authentication  |
|--|---|
| Use an authentico<br>Microsoft Authen<br>used as a | ator app like IPassword, Google Authenticator, o<br>ticator to generate one-time passwords that are<br>second factor when you sign in to ngrok. |
| Enable or disat                                    | ole MFA at any time in the User Settings page.  |
|  |   |
| Or enter th  | ne code below into the authenticator app  |

Step 7. Open the Authenticator app and scan the QR code to obtain a six-digit authentication code.





Step 8. Enter the six-digit code generated by the Authenticator app and click "Continue".



Step 9. Backup and store the recovery code for future account management.





### Step 10. Download the Ngrok program file.

| Agent   | Choose another platform |  |  |  |  |  |  |
|---|-------------------------|--|--|--|--|--|--|
|   |                         |  |  |  |  |  |  |
| Installation  |                         |  |  |  |  |  |  |
| Chocolatey Download   |                         |  |  |  |  |  |  |
| Download a standalone executable with zero run time dependencies. Don't know your architecture?<br>Help me find it. |                         |  |  |  |  |  |  |
| Download for Windows (64-Bit)   |                         |  |  |  |  |  |  |

Step 11. After logging into Ngrok, copy the authentication configuration command and grant permission.

| Installation   |   |
|--|---|
| Chocolatey Download  |   |
| Install ngrok via Chocolatey with the following command:                                     |   |
| choco install ngrok  | ð |
| Run the following command to add your authtoken to the default ngrok.yml configuration file. |   |
| ngrok config add-authtoken 2a2¢4GVnoDNeX5U3KGhkKB1ff   | ð |

Step 12. Open ngrok.exe executable file and paste the authentication configuration command, then press Enter.




Step 13. Enter **ngrok.exe http 20842** and press Enter to obtain the URL for port forwarding (highlighted in red).

| ngrok is a command line application, try typing 'ngrok.exe http 80'<br>at this terminal prompt to expose port 80.<br>D:\Download\ngrok-v3-stable-windows-amd64>ngrok.exe http 20842_ |          |          |             |             |             |                           |                  |  |  |  |  |
|--|----------|----------|-------------|-------------|-------------|---------------------------|------------------|--|--|--|--|
| 〇 🔄 系統管理員: ngrok.exe - 捷徑 🛛 🗙  | + ~      |          |             |             |             |                           | - 🗆 ×            |  |  |  |  |
| ngrok  |          |          |             |             |             |                           | (Ctrl+C to quit) |  |  |  |  |
| Try our new Traffic Inspector  |          |          |             |             |             |                           |                  |  |  |  |  |
| Session Status   | online   |          |             |             |             |                           |                  |  |  |  |  |
| Account  |          | (gma     | il.com (    | Plan: Fr    | ee)         |                           | l .              |  |  |  |  |
| Version  | 3.10.0   |          |             |             |             |                           | l .              |  |  |  |  |
| Region   | Japan (  | jp)      |             |             |             |                           | l .              |  |  |  |  |
| Latency  | 35ms     |          |             |             |             |                           |                  |  |  |  |  |
| Web Interface  | http://  | 127.0.0. | 1:4040      |             |             |                           |                  |  |  |  |  |
| Forwarding   | https:/  | /7c37-1- | 171-31-4    | 4.ngrok-    | free.app    | -> http://localhost:20842 |                  |  |  |  |  |
| Connections  | ttl<br>0 | opn<br>0 | rt1<br>0.00 | rt5<br>0.00 | p50<br>0.00 | p90<br>0.00               |                  |  |  |  |  |

Step 14. Paste the forwarding port URL into the IP address field of the External Network Settings in Argo, then click "Save" to complete the setup.

| EXTERNAL<br>NETWORK | Public ip address and port      |             |
|---------------------|---------------------------------|-------------|
| SETTINGS            | https://52fc-1-171-29-30.ngrok- |             |
|                     | Port Forwording                 |             |
|                     | 0                               | (0 ~ 65535) |
|                     | Listen port                     |             |
|                     | 20842                           | (0 ~ 65535) |



## 1.4.3 LPR upload setting

| िरू<br>LPR UPLOAD<br>SETTING |  | LPR FTP uploading<br>Enable<br>Path |                    |
|------------------------------|--|-------------------------------------|--------------------|
|                              |  | ftp://192.168.2.22                  | (ftp://ip address) |
|                              |  | Username                            |                    |
|                              |  | spark                               |                    |
|                              |  | Password                            |                    |
|                              |  | spark                               |                    |
|                              |  | Temporary Folder                    |                    |
|                              |  | C:\ProgramData\Spark\jpeg_tmp       |                    |

- License plate recognition upload settings:
- Once enabled, license plate recognition data will be uploaded via FTP.
- Path: insert the path in the format ftp://ip address.
- Username: insert the FTP username.
- Password: insert the FTP password.
- Temporary folder: insert the path of the temporary folder [default value 20842].

## 1.4.4 Web server settings



- Once enabled, you can use web server to monitor
- Port: insert port number
   Range: 80, 1025~65535



#### 1.5 Storage

## 1.5.1 Add Archive

| $\equiv$ |  |              |                   |                    |                          |                      | ( Tuesday, June 11, 2024 10 | 0:52:59 AM   & ac | lmin@spark¤pk |     |
|----------|--|--------------|-------------------|--------------------|--------------------------|----------------------|-----------------------------|-------------------|---------------|-----|
|          | 🛱 Devices                                      | Recorder     | on SPARK          |                    |                          |                      |                             |                   |               |     |
| R        | Recorder on SPARK                              | STATISTICS V |                   |                    |                          |                      |                             |                   |               |     |
|          | Sparkityk - 192.166.2240 ✓ ®-∞ Virlen rtevines |              | _                 | VIDEO DEVICES      | I/O MODULES              | OTHER SETTINGS       | STORAGE INFO                | _                 |               |     |
| ප්       | ✓ I/O Modules                                  | <b>A</b> 1   |                   |                    |                          |                      |                             |                   |               |     |
| *        | ✓ 4 Spark AI Service                           | STORAGE      | ARCHIVE           | VOLUMES            |                          |                      |                             |                   |               |     |
| r\$      |  |              | Size: 128.00 GE   | P DRIVE            | M                        | IAX SIZE<br>28.00 GB | MOUNT STATUS<br>Mounted     |                   |               |     |
| R.       |  |              |                   |                    |                          |                      |                             |                   |               |     |
| **       |  |              |                   | CAMERAS LIST       |                          |                      |                             |                   |               |     |
| ×.       |  |              |                   | ADDRESS            | MODEL NAME               | DEVICE NAME          | I                           |                   |               |     |
| ¢Ŀ       |  |              | Delete            | 192.168.2.17       | BM2                      | Camera 2             |                             |                   |               |     |
| R        |  |              |                   | ] 192.168.2.120    | B1 2000 Middle Bullet    | Camera Camera 3      |                             |                   |               |     |
| C,       |  |              | Edit archive      |                    |                          |                      |                             |                   |               |     |
|          |  |              | Archive name      | File size          |                          |                      |                             |                   |               |     |
|          |  |              | Archive           | 32MB               | ~                        |                      |                             |                   |               |     |
|          |  |              | Volume settings   |                    |                          |                      |                             |                   |               |     |
|          |  |              | SELECT TYPE DRIVE | CAPACITY FREE SE   | PACE VOLUM               | 1E SIZE              |                             | MOUNT STATUS      |               |     |
|          |  |              | disk C:\          | 237.23 GB 115.57 ( | <b>GB</b> — TB — GB — MB | 10.00 GB +MB +G      | B +TB MIN SIZE MAX SIZE     |                   |               |     |
|          |  |              |                   |                    |                          |                      |                             | Mounted           |               |     |
|          |  |              |                   |                    |                          |                      |                             |                   |               |     |
|          |  |              |                   |                    |                          |                      |                             |                   |               |     |
| Þ        |  |              |                   |                    |                          |                      |                             |                   |               |     |
| .84.     |  |              |                   |                    |                          |                      |                             |                   |               |     |
| 44       |  |              |                   |                    |                          |                      |                             |                   |               |     |
| 8        |  |              |                   |                    |                          |                      |                             |                   |               |     |
| ő        | Add Delete                                     |              |                   |                    |                          |                      |                             |                   |               | Add |

- Click on the bottom right [Add]
- File name: insert name the recording file
- File size: select file size (32/64/128MB)
- Volume settings: select the hard drive(s) you want to add to the storage space

| Volume settings |      |       |           |            |       |          |             |          |          |              |  |  |
|-----------------|------|-------|-----------|------------|-------|----------|-------------|----------|----------|--------------|--|--|
| SELECT          | TYPE | DRIVE | CAPACITY  | FREE SPACE | VOLUN | 1E SIZE  |             |          |          | MOUNT STATUS |  |  |
|                 | disk | C:\   | 237.23 GB | 115.54 GB  |       | 10.00 GB | +MB +GB +TB | MIN SIZE | MAX SIZE |              |  |  |
|                 |      |       |           |            |       |          | +MB +GB +TB |          |          | Mounted      |  |  |

- Disk Partition Size: Click [+] to increase recording storage space, click [-] to decrease recording storage space.
  - Note: 1. The minimum size for disk partition is 10GB, and the maximum size is the capacity of the hard drive itself.
    - 2. At least 500MB of disk space needs to be reserved to properly allocate storage space.



# 1.5.2 Edit storage

|         |        |                  | VIDEO DEVICES     | I/O MODULES        | отне        | R SETTINGS    | STORAGE    | INFO       |             |
|---------|--------|------------------|-------------------|--------------------|-------------|---------------|------------|------------|-------------|
|         | ŕ      |                  |                   |                    |             |               |            |            |             |
| STOPACE |        | ARCHIVE          | VOLUMES           |                    |             |               |            |            |             |
| STORAGE |        | Size: 128.00 GB  | DRIVE             |                    | MAX SIZE    |               | MOUNT      | STATUS     |             |
|         |        | Status: Availabl | e D:\             |                    | 128.00 GB   |               | Mounte     | ed .       |             |
|         |        |                  |                   |                    |             |               |            |            |             |
|         |        |                  |                   |                    |             |               |            |            |             |
|         |        |                  | CAMERAS LIST      |                    |             | DENCE NAME    |            |            |             |
|         |        | Delete           | 192 168 2 17      | BM2                |             | Camera 2      |            |            |             |
|         | -      | Edit             | 192.168.2.17      | B1 2000 Middle Bul | llet Camera | Camera 3      |            |            |             |
|         |        |                  |                   |                    |             |               |            |            |             |
|         |        |                  |                   |                    |             |               |            |            |             |
|         | Edi    | t archive        |                   |                    |             |               |            |            |             |
|         | Archiv | ve name          |                   |                    |             |               |            |            |             |
|         | Arch   | ive              |                   |                    |             |               |            |            |             |
|         |        |                  |                   |                    |             |               |            |            |             |
|         | Volum  | ne settings      |                   |                    |             |               |            |            | OUNT STATUS |
|         |        |                  |                   | 70 00 10           | 10.00 00    |               |            |            |             |
|         |        | disk C:\ 23      | 7.23 GB 115.54 GB |                    | 10.00 GB    | +MB + GB + 18 | MIN SIZE M | IAX SIZE   |             |
|         | $\leq$ | disk D:\ 93      | 1.39 GB 312.81 GB | -TB -GB -MB        | 128.00 GB   | +MB +GB +TB   | MIN SIZE M | IAX SIZE M | lounted     |
|         |        |                  |                   |                    |             |               |            |            |             |
|         |        |                  |                   |                    |             |               |            |            |             |
|         |        |                  |                   |                    |             |               |            |            |             |
|         |        |                  |                   |                    |             |               |            |            |             |
|         |        |                  |                   |                    |             |               |            |            |             |
|         |        |                  |                   |                    |             |               |            |            |             |
|         |        |                  |                   |                    |             |               |            |            |             |
|         |        |                  |                   |                    |             |               |            |            |             |
|         |        |                  |                   |                    |             |               |            |            |             |

Click on the storage space you want to edit and then click on [Edit] on the left.

Note : Editing the archive size may cause breaks in streams recording.

## 1.5.3 Delete storage

| ARCHIVE       VOLUMES         Size: 128.00 GB       DRIVE       MAX SIZE       MOUNT STATUS         Status: Available       D:\       128.00 GB       Mounted         Image: Delete       Delete       192.168.2.17       BM2       Camera 2         Edit       192.168.2.120       B1 2000 Middle Bullet Camera       Camera 3 |         |                           | VIDEO DEVICES | I/O MODULES       | отне        | R SETTINGS  | STORAGE | INFO   |
|---|---------|---------------------------|---------------|-------------------|-------------|-------------|---------|--------|
| Status: Available     D:\     128.00 GB     Mounted       Delete     Delete     192.168.2.17     BM2     Camera 2       Edit     192.168.2.120     B1 2000 Middle Bullet Camera     Camera 3  | STORAGE | ARCHIVE<br>Size: 128.00 C |               |                   | MAX SIZE    |             | MOUNTS  | STATUS |
| Delete     CAMERAS LIST       Delete     ADDRESS     MODEL NAME     DEVICE NAME       192.168.2.17     BM2     Camera 2       Edit     192.168.2.120     B1 2000 Middle Bullet Camera     Camera 3  |         | Status: Availat           | ble D:\       |                   | 128.00 GB   |             | Mounted |        |
| Delete         192.168.2.17         BM2         Camera 2           Edit         192.168.2.120         B1 2000 Middle Bullet Camera         Camera 3   |         | V                         | CAMERAS LIST  | MODEL NAME        |             | DEVICE NAME |         |        |
| Edit 192.168.2.120 B1 2000 Middle Bullet Camera Camera 3  |         | Delete                    | 192.168.2.17  | BM2               |             | Camera 2    |         |        |
|   |         | Edit                      | 192.168.2.120 | B1 2000 Middle Bu | llet Camera | Camera 3    |         |        |

- Click on the storage space you want to delete and then click on [Delete] on the left.



## 1.6 Information

## 1.6.1 Information

|  | -                                   | VIDEO DEVICES | I/O MODULES | OTHER SETTINGS | STORAGE | INFO |
|--|-------------------------------------|---------------|-------------|----------------|---------|------|
|  | RECORDER NAME<br>Recorder on SPARK/ | ŀκ            |             |                |         |      |
|  | ADDRESS<br>spark¤pk - 192.168.2     | 2.240         |             |                |         |      |
|  | SPARK PROTOCOL<br>20840             | PORT          |             |                |         |      |
|  | STREAMING PORT                      |               |             |                |         |      |
|  | LISTEN PORT<br>20842                |               |             |                |         |      |

- Browse the recorder name/address/SPARK protocol port/streaming port/listen port.

## 1.6.2 Installed services

| INSTALLED<br>SERVICES | INSTALLED SERVICES RECAP<br>ANALYTICS DATA COLLECTION SERVICES<br>INDEXING SERVICE<br>EVENTS AND ALARMS MANAGEMENT<br>SPARK AI SERVICE<br>AUTHENTICATION AUTHORITY<br>LINE MESSAGING SERVICE<br>DEVICES MANAGEMENT<br>RECORDING SERVICE<br>HEALTH DOCTOR<br>SYSTEM MANAGEMENT<br>LICENSE PROVIDER<br>ACCESS CONTROL |
|-----------------------|---|
|-----------------------|---|

- Installed services content

#### 1.6.3 License summary

|         | NAME   | TYPE  | USED | AVAILABLE | TOTAL | EXPIRATION DATE | STATUS |
|---------|--|-------|------|-----------|-------|-----------------|--------|
| SUMMARY | Omnieye Advanced Series channel license                  | Trial | 2    | 6         | 8     | 9/15/2024       | ОК     |
|         | ONVIF channels license                                   | Trial | 2    | 6         | 8     | 9/15/2024       | ОК     |
|         | RFID reader license                                      | Trial | 1    | 0         | 1     | 9/5/2024        | ОК     |
|         | Al Service Human Detection Integration License(28062C4C) | Trial |      |           |       | 9/15/2024       | ОК     |
|         | Argo integration license                                 | Trial |      |           |       | 9/30/2024       | ОК     |
|         | I/O Modules activation license                           | Trial |      |           |       | 9/30/2024       | ОК     |

- Browse license overview and status

## **1.7 Spark AI services**

- 1.7.1 Spark Al devices
- A. Overview of Spark AI devices



- Spark AI device serial number / status / license type (Human detection / vehicle detection / LPR)

| $\equiv$     |   |            |                      |                     |                 |              | C Tuesday, June 11, 2024 11:42:59 AM | ∣ & admin@spark¤pk ∣ | - 0 ×   |
|--------------|---|------------|----------------------|---------------------|-----------------|--------------|--------------------------------------|----------------------|---------|
| $\hat{\Box}$ | E <sup>10</sup> Devices                       | AD Spark A | A Service            |                     |                 |              |                                      |                      |         |
| E*           | Recorder on SPARK/J\K                         |            |                      |                     | SPARK AI DEVICE | AI ANALYTICS | _                                    |                      |         |
| &            | ✓ <sup>®</sup> Dg Video devices               | 0          | Select all           |                     |                 |              |                                      |                      |         |
| _            | ✓ «/%» I/O Modules                            | SPARK AI   | SELECT SERIAL NUMBER | STATUS LICENSE TYPE |                 |              |                                      |                      |         |
| 뼏            | へ 御 Spark Al Service                          | DEVICE     | 28062C4C             | Ready Human Detec   | tion            |              |                                      |                      |         |
| đ            | Spark Al Device - Human Detection     Statuse |            |                      |                     |                 |              |                                      |                      |         |
| 2            |   |            |                      |                     |                 |              |                                      |                      |         |
| сá,          |   |            |                      |                     |                 |              |                                      |                      |         |
| ₼            |   |            |                      |                     |                 |              |                                      |                      |         |
| ₿,           |   |            |                      |                     |                 |              |                                      |                      |         |
| ⊜            |   |            |                      |                     |                 |              |                                      |                      |         |
|              |   |            |                      |                     |                 |              |                                      |                      |         |
|              |   |            |                      |                     |                 |              |                                      |                      |         |
| ₽            |   |            |                      |                     |                 |              |                                      |                      |         |
| 8            |   |            |                      |                     |                 |              |                                      |                      |         |
| ñ            |   | 1 Spark Al |                      |                     |                 |              |                                      |                      | Deter   |
| -0           |   | Derice     |                      |                     |                 |              |                                      |                      | 0.00206 |

# B. Delete Spark AI devices

| $\equiv$     |                                |                      |                          |                           | () Tuesday, June 11, 2024 11:43:5 | 4 AM   8 admin@spark=pk   - $\square$ × |
|--------------|--------------------------------|----------------------|--------------------------|---------------------------|-----------------------------------|---|
| $\hat{\Box}$ | E <sup>n</sup> Devices         | AD Spark A           | Al Service               |                           |                                   |   |
| E*           | Recorder on SPARK/J\K          |                      |                          | SPARK AI DEVICE           | AI ANALYTICS                      |   |
| AA           | ✓ ℗ <sub>3</sub> Video devices | 0                    | Select all               |                           |                                   |   |
|              | マ ぱら I/O Modules               | SPARK AI             | SELECT SERIAL NUMBER STA | TUS LICENSE TYPE          |                                   |   |
|              | へ ゆ Spark Al Service           | DEVICE               | 28062C4C Um              | reachable Human Detection |                                   |   |
| t?           |                                |                      |                          |                           |                                   |   |
|              |                                |                      |                          |                           |                                   |   |
| ŝ            |                                |                      |                          |                           |                                   |   |
| ഷ            |                                |                      |                          |                           |                                   |   |
| E,           |                                |                      |                          |                           |                                   |   |
| ⊜            |                                |                      |                          |                           |                                   |   |
|              |                                |                      |                          |                           |                                   |   |
| ▶            |                                |                      |                          |                           |                                   |   |
| \$           |                                |                      |                          |                           |                                   |   |
| 8            |                                |                      |                          |                           |                                   | L                                       |
| ů            |                                | 1 Spark Al<br>Device |                          | <sup></sup>               |                                   | Delete                                  |

- Select Spark AI device you want to delete and click [Delete]

Note: When deleting, the Spark AI key must be offline first.



# 1.7.2 Spark Al device camera

# 1.7.2.1 Add camera to Spark AI service

| ≡            |   | 🕚 Tuesday, June 11, 2024 01:08:52 PM   🖇 admin@spark@pk   — 🛛  |  |
|--------------|---|--|--|
| $\hat{\Box}$ | 🔓 Devices   |  |  |
| ₽            | Recorder on SPARK/\\K<br>spartossa - 152.768.2240 |  |  |
| <u>A</u> e   | ✓ ℗ <sub>3</sub> Video devices                    | CAMERAS LIST INFO  |  |
|              | ✓ « <sup>d</sup> l/O Modules                      | ®_> Select all   |  |
| 쓷            | へ ゆ Spark Al Service                              | CAMERAS LIST SELECT NAME ANALYTICS ENABLED IP ADDRESS MODEL NAME DEVICE NAME ORIGIN  |  |
| t\$          | Spark Al Device - Human Detection                 |  |  |
|              |   | amera to Spark Al Service  |  |
| ×.           |   | raw ⊽ 🔤 Camera S   |  |
| ഷ            |   | RELECT ADDRESS MCDRL NAME STATUS DEVICE NAME ORDER ANALYTICS DARLED  |  |
| Ē,           |   | 19334237 MR2 Ready Carrens 2 Recorder on SPARCHX No     192542232 MR2 Ready Carrens 1 Recorder on SPARCHX No   |  |
|              |   | NAM       RECUITION IPS COCCE PROFAS SULCTIO         Maketorum Profilibilium 3 460x80       28         HOLD TO A IPS COCCE PROFAS SULCTIO         Maketorum Profilibilium 3 460x80       28         HOLD TO A IPS COCCE PROFAS SULCTIO |  |
| ►            |   | Add Cow  |  |
| \$ <u>}</u>  |   |  |  |
| 8            |   | <b>↓</b>   |  |
| Ô            |   | 1 Cameras Add Delete Edit  |  |

- Click on the bottom right [Add]
- Select the cameras you want to add to the Spark AI service
- Select camera profile



# 1.7.2.2 Edit camera on Spark Al services



Select the Spark AI service camera you want to edit and click on the bottom right
 [Edit]



- Enable video analytics: once enabled, you can see detected objects outlined in red.



| $\equiv$ |                 |  | 🕚 Tuesday, June 11   | , 2024 01:21:16 PM   🖇 admin@spark¤pk   📮   🏚   – 🗇 🛛  |
|----------|-----------------|--|--|--|
| Ē        | Views 🗗 🗙 🗸     | Live Spark_Channel_1   |  | Al Service Monitor 🗗 🗙 Devices 🗗 🗙 📮   |
| പ        | 🗘 Alarms        |  |  | Last entry selected Pause Clear Q  |
|          | ∧               | CALL THE PARTY FULL TAXABLE PARTY IN THE PARTY INTERPARTY IN THE PARTY IN THE PARTY INTERPARTY INTERPART   | Carden and a set of the set of th | CLASS NODE   |
| E),      |                 |  | A DESCRIPTION OF THE REPORT OF T   | videostream ProfileToken_2 person spark¤pk   |
|          | Spark_e-Map     |  | the set and the second in the set of the set of the set of the set   | videostream ProfileToken_2 person spark¤pk   |
|          | Spark_Channel_1 |  | NOT THE REAL PROPERTY AND ADDRESS OF THE ADDRESS OF THE OWNER   | videostream ProfileToken_2 person spark¤pk   |
|          |                 | Edit analytics stream  |  | videostream ProfileToken_2 person spark¤pk   |
|          |                 | Name   | A Camera 5   | videostream ProfileToken_2 person spark#pk   |
|          |                 | AnalyticsStreamPerimeter2  |  | videostream ProfileToken_2 person spark@pk   |
|          |                 | Analytics enabled  |  | videostream Profile loken_2 person spark®pk  |
|          |                 | On On  |  | videostream Profile loken_2 person spark=pk  |
|          |                 | Mark detection result  |  | videostream ProfileToken 2 person sparkopk   |
|          |                 |  |  | videostream ProfileToken 2 person sparktink  |
|          |                 | Select a new stream for analytics (the true value indicates which stream is actually used)   | and the set  | videostream ProfileToken 2 person spark¤pk   |
|          |                 | NAME RESOLUTION FPS CODEC PROFILE SELECTED   | - KAN  | i jalana and and a second and a s  |
|          |                 | videostream ProfileToken_1 1920x1080 25 H264 Yes   |  | ,<br>  |
|          |                 | videostream ProfileToken_2 640x480 25 H264 No  |  |  |
|          |                 |  | State of the second second second  | Score: 83%   |
|          |                 | Detections settings Detections list Supported detections   |  | Class: person  |
|          |                 | area detection area detection  |  | Count: 1   |
|          |                 |  | · American Manufacture   | Loitenng Time: 4   |
|          |                 |  | and the second  |  |
|          |                 |  |  |  |
|          |                 |  |  |  |
|          |                 | <b>4</b> = 2   |  |  |
|          |                 |  |  |  |
|          |                 |  |  |  |
|          |                 |  |  |  |
| \$       |                 | Save Cancel  |  |  |
|          |                 | And the second s | The second se  |  |
| 8        |                 |  |  |  |
| 8        | 58 <i>4</i> 8   |  |  |  |
|          |                 |  |  | and the second state of th |

- Marked detection results: When enabled, images of detected objects will be surrounded by red boxes and displayed in the AI service client monitoring window.
- Detection area settings: Edit detection area for the Spark AI service camera.
  - a. Add detection area list

| Detections settings<br>Detections list                                      | Supported detections                                | Add action  |            |  |
|---|---|---|------------|--|
| Detections settings<br>Detections list<br>Right detection<br>Left_detection | Supported detections Left_detection Right detection | Add action Rule name Left_detection Score (1: Sensitivity level high; 9: Accuracy level high) 7 Supported objects |            |  |
|   |   | car<br>motorcycle<br>bus  | Add Cancel |  |

- Click on the bottom left [+]
- Rule name: insert a name for the detection area
- Score: select the sensitivity and accuracy of the detection area. The lower the score, the easier it is to detect objects, and the higher the score, the higher the accuracy. Range: 1-9
- Supported objects : select object type
   Person detection detect human (default)
   Vehicle detection bicycle, car, motorcycle, bus, trucks
- Right screen: Drag to adjust the detection area



## b. Execute detection area

| ction<br>ection |   |
|-----------------|---|
| ection          |   |
|                 | 3 |
|                 |   |
|                 |   |
|                 |   |

- Apply to Execute Area Detection: Select the area list for detection and click [>]
- Delete Executing Area Detection: Select the area detection you want to delete and click on the bottom left [-]

## c. Edit the List of Selectable Areas

| Detections settings<br>Detections list Supported detections                             | Add action   |
|---|--|
| Right detection         Left detection           Left detection         Right detection | Rule name  |
|   | Left_detection   |
| <b>↓</b> - <i>𝔅</i>   | Score (t: Sensitivity level high; 9: Accuracy level high)  |
| 1   | Supported objects  |
|   | leyda  |
|   | car de la caracterización de la caracterizac |
|   |  |
|   |  |
|   |  |

Select the selectable area detection you want to edit and click on

| Detections settings<br>Detections list |            | Supported detections              |
|--|------------|-----------------------------------|
| Right detection<br>Left_detection      | $\searrow$ | Left_detection<br>Right detection |
| └────┘<br>✦ ᆕ &                        |            |                                   |

# d. Delete selectable area list

Select the selectable area list you want to delete and click on the bottom left
 [-]



# 1.7.2.3 Delete camera on Spark Al

| $\equiv$     | ARGO CONFIG  |              |                           |                   |               | 🕚 Tuesday, Ju                              | ne 11, 2024 03:1 | 5:36 PM   & ad  | lmin@spark¤pk | - 0 × |
|--------------|--|--------------|---------------------------|-------------------|---------------|--|------------------|-----------------|---------------|-------|
| $\hat{\Box}$ | ₽¹ Devices   |              |                           |                   |               |  |                  |                 |               |       |
| ₽            | Recorder on SPARK  |              |                           |                   |               |  |                  |                 |               |       |
| 8            | ✓ P→ Video devices   |              |                           |                   | CAMERAS LIST  | INFO                                       |                  |                 |               |       |
|              | ✓ «f lo I/O Modules  | Ex           | Select all                |                   |               |  |                  |                 |               |       |
|              | <ul> <li>Φ) Spark AI Service</li> <li>Spark AI Device - Human Detection</li> </ul> | CAMERAS LIST | AI 2 120 Object           | ANALYTICS ENABLED | 192 168 2 120 | MODEL NAME<br>B1 2000 Middle Bullet Camera | DEVICE NAME      | ORIGIN          |               |       |
| 13°          |  |              | AnalyticsStreamPerimeter2 | Human Detection   | 192.168.1.247 | IPCamera                                   | Camera 5         | videostream Pro | ofileToken_2  |       |
|              | ti⊒r 1921682.120   |              |                           |                   |               |  |                  |                 |               |       |
| ж,           | Camera 5<br>192.168.1247   |              |                           |                   |               |  |                  |                 |               |       |
|              |  |              |                           |                   |               |  |                  |                 |               |       |
| e,           |  |              |                           |                   |               |  |                  |                 |               |       |
| æ            |  |              |                           |                   |               |  |                  |                 |               |       |
|              |  |              |                           |                   |               |  |                  |                 |               |       |
|              |  |              |                           |                   |               |  |                  |                 |               |       |
|              |  |              |                           |                   |               |  |                  |                 |               |       |
|              |  |              |                           |                   |               |  |                  |                 |               |       |
|              |  |              |                           |                   |               |  |                  |                 |               |       |
|              |  |              |                           |                   |               |  |                  |                 |               |       |
|              |  |              |                           |                   |               |  |                  |                 |               |       |
|              |  |              |                           |                   |               |  |                  |                 |               |       |
| -<br>-       |  |              |                           |                   |               |  |                  |                 |               |       |
| 8            |  |              |                           |                   |               |  |                  |                 | $\mathbf{V}$  |       |
|              |  | 2 Cameras    |                           |                   |               |  |                  | Add             | Delete        | Edit  |

- Select the cameras you want to delete from the Spark AI service and click on the bottom right [Delete]

## 1.7.2.4 Information

| $\hat{\Box}$ | ☐ <sup>N</sup> Devices            |        |                 |              |      |
|--------------|-----------------------------------|--------|-----------------|--------------|------|
| B            | Recorder on SPARK/J\K             |        |                 |              |      |
| Re           | ✓ <sup>®</sup> → Video devices    |        |                 | CAMERAS LIST | INFO |
|              | ✓ d l/O Modules                   |        |                 |              |      |
| 44+          | へ 御 Spark Al Service              | Ő      | SERIAL NUMBER   |              |      |
| ď            | Spark Al Device - Human Detection | INFO . | 28062C4C        |              |      |
|              | Camera 3<br>1921642.120           |        | Human Detection |              |      |
| <u>الم</u>   | Camera 5<br>192 108.1.247         |        |                 |              |      |
| ഷ            |                                   |        |                 |              |      |

- Browse Spark AI detection device information (Serial number/ License type/ Count).

# 1.7.3 Al analytics (fire detection/smoke detection)

- A. Overview AI analytics
- AI analytics license status / enable AI analytics / IP address / port / function / device name
- Functions: Fire detection/Smoke detection



| $\equiv$   | ARGO CONFIG                     |              |        |            |                   |             |         |                 | () Tuesday, June 11, 2024 03:33 | 23 PM   & adm | nin@argo-test-pc | - 0 × |
|------------|---------------------------------|--------------|--------|------------|-------------------|-------------|---------|-----------------|---------------------------------|---------------|------------------|-------|
| $\bigcirc$ | 🗗 Devices                       | 🖗 Spark Al S | ervice |            |                   |             |         |                 |                                 |               |                  |       |
| ₽          | Recorder on DESKTOP-119NDSJ     |              |        |            |                   | s           | PARK AI | DEVICE AI A     | NALYTICS                        |               |                  |       |
| æ          | ✓ ℗ <sub>31</sub> Video devices | @            |        | Select all |                   |             |         |                 |                                 |               |                  |       |
| _          | ✓ ≪® I/O Modules                | AI ANALYTICS | SELECT |            | ANALYTICS ENABLED | ADDRESS     | PORT    | FUNCTION        | DEVICE NAME                     |               |                  |       |
| 뼐          | へ 御 Spark Al Service            |              |        | Yes        | Yes               | 192.168.2.8 | 9923    | Fire detection  | Fire Al                         |               |                  |       |
| ď          | P Al Analytics-Fire Detection   |              |        | Yes        | Yes               | 192.168.2.8 | 9925    | Smoke detection | Smaok_AI                        |               |                  |       |
|            | Al Analytics-Smoke Detection    |              |        |            |                   |             |         |                 |                                 |               |                  |       |
| de.        |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
| and a      |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
| ¢Ð         |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
| ₿,         |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
| ₽          |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
|            |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
|            |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
|            |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
|            |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
|            |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
|            |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
|            |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
|            |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
|            |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
| \$         |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
| 8          |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
| ñ          |                                 |              |        |            |                   |             |         |                 |                                 |               |                  |       |
|            |                                 |              |        |            |                   |             |         |                 |                                 | 7400          |                  |       |

## B. Manual add server

| $\equiv$     |  |              |         |            |             |                |          |                 | C Tuesday, June 11, 2024 03:33 | 23 PM   💍 admin | @argo-test-pc |      |
|--------------|--|--------------|---------|------------|-------------|----------------|----------|-----------------|--------------------------------|-----------------|---------------|------|
| $\hat{\Box}$ | 🗗 Devices  | ) Spark Al   | Service |            |             |                |          |                 |                                |                 |               |      |
| B            | Recorder on DESKTOP-119NDSJ argo test pc - 192.162.248 |              |         |            |             | _              | SPARK AI | DEVICE AI       | ANALYTICS                      |                 |               |      |
| 8            | ✓ ₱ <sub>jd</sub> Video devices                        | <b></b>      |         | Select all |             |                |          |                 |                                |                 |               |      |
|              | ✓ I/O Modules  | AI ANALYTICS |         |            | ANALYTICS E | NABLED ADDRESS | PORT     | FUNCTION        | DEVICE NAME                    |                 |               |      |
| 쎻            | へ ゆ Spark Al Service                                   |              | $\Box$  | Yes        | Yes         | 192.168.2.8    | 9923     | Fire detection  | Fire Al                        |                 |               |      |
| r\$          | Al Analytics-Fire Detection                            |              |         | Yes        | Yes         | 192.168.2.8    | 9925     | Smoke detection | Smaok_AI                       |                 |               |      |
|              | Al Analytics-Smoke Detection                           |              |         |            |             | Add ser        | ver n    | nanually        |                                |                 |               |      |
| ж,           |  |              |         |            |             | Name           |          |                 |                                |                 |               |      |
| ₼            |  |              |         |            |             | AlServer 1     |          |                 |                                |                 |               |      |
| ۵,           |  |              |         |            |             | Address        |          |                 |                                |                 |               |      |
| ₽            |  |              |         |            |             |                |          |                 |                                |                 |               |      |
|              |  |              |         |            |             | Function       |          |                 |                                |                 |               |      |
|              |  |              |         |            |             | Fire detection | n        | ~               |                                |                 |               |      |
|              |  |              |         |            |             |                |          |                 |                                |                 |               |      |
|              |  |              |         |            |             |                |          |                 |                                |                 |               |      |
|              |  |              |         |            |             |                |          |                 |                                |                 |               |      |
|              |  |              |         |            |             |                |          |                 |                                |                 |               |      |
|              |  |              |         |            |             |                |          |                 |                                |                 |               |      |
| ⊳            |  |              |         |            |             |                |          |                 |                                |                 |               |      |
| \$           |  |              |         |            |             |                |          |                 |                                |                 |               |      |
| 8            |  |              |         |            |             |                |          |                 |                                | J               |               |      |
| 2            |  |              |         |            |             | Add            |          | Cancel          |                                | _ <b>*</b>      |               |      |
| 0            |  |              |         |            |             |                |          |                 |                                | Add             | Delete        | Edit |

- Click on the bottom right [Add]
- Name: The name of the server you want to add
- IP Address: The IP address you want to add
- Function: Fire detection / Smoke detection
- C. Edit server information



| ≡    | ARGO CONFIG   |              |        |            |        |  |            |           |                 | () Tuesday, June 11, 2024 03:47:08 | PM   & adm | nin@argo-test-pc | - ¤ ×           |
|------|---|--------------|--------|------------|--------|--|------------|-----------|-----------------|------------------------------------|------------|------------------|-----------------|
|      | 🗗 Devices   | Spark Al S   | ervice |            |        |  |            |           |                 |                                    |            |                  |                 |
| ₽    | A Recorder on DESKTOP-119NDSJ appeter pc-1921642248 |              |        |            |        |  | s          | PARK AI [ | DEVICE AI #     | ANALYTICS                          |            |                  |                 |
| 8ª   | ✓ <sup>®</sup> → Video devices                      | <b></b>      | 2      | Select all |        |  |            |           |                 |                                    |            |                  |                 |
| -ale | v de I/O Modules                                    | AI ANALYTICS |        | LICENSE    | D ANAL | YTICS ENABLED                                      | DDRESS     | PORT      | FUNCTION        | DEVICE NAME                        |            |                  |                 |
| -12- | Spark Al Service                                    |              |        | Yes        | Yes    | ۱  | 92.168.2.8 | 9923      | Fire detection  | Fire Al                            |            |                  |                 |
| ĽÝ   | Al Analytics-Fire Detection                         |              | $\leq$ | Yes        | Yes    |  | 92.168.2.8 | 9925      | Smoke detection | Smaok_AI                           |            |                  |                 |
|      | Al Analytics-Smoke Detection                        |              |        |            |        | Edition  | ior inf    | ormo      | tion            |                                    |            |                  |                 |
| Ŕ    |   |              |        |            |        | Eait serv  | /er ini    | orna      | auon            |                                    |            |                  |                 |
| ¢Ð   |   |              |        |            |        | Analytics ena                                      | bled       |           |                 |                                    |            |                  |                 |
| e,   |   |              |        |            |        | On<br>Name   |            |           |                 |                                    |            |                  |                 |
| æ    |   |              |        |            |        | Smaok_AI   |            |           |                 |                                    |            |                  |                 |
|      |   |              |        |            |        | Address<br>192.168.2.8<br>Function<br>Smoke detect | tion       | ~         |                 |                                    |            |                  |                 |
|      |   |              |        |            |        |  |            |           |                 |                                    |            |                  |                 |
| Ϋ́ς; |   |              |        |            |        |  |            |           |                 |                                    |            |                  |                 |
| 8    |   |              |        |            |        | Save   |            | Cancel    |                 |                                    |            |                  | $\mathbf{\Psi}$ |
| Ő    |   |              |        |            |        |  |            |           |                 |                                    | Add        | Delete           | Edit            |

- Select device you want to edit and click [Edit]
- D. Delete server

| $\equiv$     | ARGO CONFIG                     |              |           |            |                   |             |           |                 | U Tuesday, June 11 | , 2024 03:47:08 PM | & admi | n@argo-test-pc | - ø × |
|--------------|---------------------------------|--------------|-----------|------------|-------------------|-------------|-----------|-----------------|--------------------|--------------------|--------|----------------|-------|
| $\hat{\Box}$ | ₽° Devices                      | Spark Al S   | Service   | 9          |                   |             |           |                 |                    |                    |        |                |       |
| ₽            | A Recorder on DESKTOP-119NDSJ   |              |           |            |                   | s           | PARK AI I | DEVICE AI A     | NALYTICS           |                    |        |                |       |
| Qe           | ✓ P <sub>⊇d</sub> Video devices |              |           | Select all |                   |             |           |                 |                    |                    |        |                |       |
|              | ✓ ♂⊚ I/O Modules                | AI ANALYTICS | SELEC     |            | ANALYTICS ENABLED | ADDRESS     | PORT      | FUNCTION        | DEVICE NAME        |                    |        |                |       |
| 늪            | へ 仰) Spark Al Service           |              |           | Yes        | Yes               | 192.168.2.8 | 9923      | Fire detection  | Fire Al            |                    |        |                |       |
| r\$          | Al Analytics-Fire Detection     |              | $\square$ |            |                   | 192.168.2.8 | 9925      | Smoke detection | Smaok_Al           |                    |        |                |       |
|              | Al Analytics-Smoke Detection    |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
| st.          |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
| ഷം           |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
|              |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
| E)           |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
| ₿            |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
|              |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
|              |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
|              |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
|              |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
|              |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
|              |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
|              |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
| Þ            |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
| хДг          |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
| 8            |                                 |              |           |            |                   |             |           |                 |                    |                    |        |                |       |
| 8            |                                 |              |           |            |                   |             |           |                 |                    |                    |        | <b>*</b>       |       |
| U            | =                               |              |           |            |                   |             | _         |                 |                    | ·                  | ٨dd    | Delete         | Edit  |

- Select device you want to delete and click [Delete]
- E. Information



| $\equiv$                                | ARGO CONFIG  |                        |    |
|---|--|------------------------|----|
|   | ₽ <sup>4</sup> Devices                               |                        |    |
| ₽                                       | Recorder on DESKTOP-119NDSJ argo-test-pc-192168.2248 |                        |    |
| ዲ                                       | ✓ <sup>®</sup> → Video devices                       |                        | -0 |
| 0                                       | ✓ d l/O Modules                                      |                        |    |
| *                                       | へ 御 Spark AI Service                                 |                        |    |
| r\$7                                    | Al Analytics-Fire Detection                          | INFO <sup>Yes</sup>    |    |
| دی <u>ہ</u>                             | Al Analytics-Smoke Detection                         | ANALYTICS ENABLED      |    |
|   |  | ADDRESS                |    |
| <b>.</b>                                |  | 192.168.2.8            |    |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |  | PORT                   |    |
| ₫                                       |  | 9923                   |    |
| Ē                                       |  | FUNCTION               |    |
| Q                                       |  | FireDetection          |    |
| Ē                                       |  | DEVICE NAME<br>Fire Al |    |
|   |  |                        |    |

Browse AI video analytics - fire detection/smoke detection device information
 Information: license status / video analytics status / IP address / port / functions / device name

## F. IVA(RTSP/IP address) execute settings



- Click [Settings]
- Insert RTSP and IP address then click [Save]

## **1.8 Server**

## **1.8.1.1 Primary server and secondary servers**

 Mechanism: having primary server and secondary servers allows unified remote monitoring of multiple servers through the primary server.



- Add secondary servers/failover server or delete server, follow below steps:





## 1.8.1.2 Add server



- Click [Add]





Step 1. Insert server information

- Server: Insert server IP address
- Connection port: insert connection port (main port)
- Password: insert server password

Step 2. Select server type

- Server type: Slave Recorder / Failover Recorder
- Slave Recorder: add other servers to the device list for unified management.
- Failover Recorder: If the primary server loses connection, the failover server will take its place to ensure continuous recording without any loss of video records.

## Step 3. Edit server settings

a. Details

| DETAILS          | AUTHENTIC | ATION  | ADVANCED | 1 |
|------------------|-----------|--------|----------|---|
| Edit server info | ormation  |        |          |   |
| Server name      |           |        |          |   |
|                  | Add       | Cancel |          |   |

- Edit server information: enable to edit server name.

Note: You can modify parameters related to inviting network nodes, but using this feature may involve risks.

b. Permissions





- Leave authentication authority enabled: When enabled, if the main control machine fails to authorize, the server can authenticate users to access.
- c. Advanced



 No direct connection to the server: enable to prevent other servers from directly contacting this server's network address.

Note: The address of the server may change periodically, so other servers cannot use a fixed address to contact it.

 Use a specific address for master: enable to input the external WAN IP address to allow devices outside the local network to connect to this server's network address.



# 1.8.1.3 Delete server



- Click [Delete]



# 1.9 View mode

| $\equiv$     | ARGO CONFIG  | $\equiv$ | ARGO CONFI    | G                       |             |                     |               |
|--------------|--|----------|---------------|-------------------------|-------------|---------------------|---------------|
| $\hat{\Box}$ | Devices Hierarchy mode                             |          | 🗗 Dev         | <sub>ices</sub> List n  | nod         | е                   |               |
| ₽            | ▲      Recorder on SPARK/\\K spantagk-192.168.2240 | ₽        |               | Device type             |             | Filter 🍸            |               |
| ድ            | ∧ 🖭 Video devices                                  | ድ        | ADDRESS       | AII<br>DEVICE TYPE      | MODEL NA    | ME                  |               |
|              | Camera 1   |          | 192.168.2.232 | Omnieye Advanced Series | BM2         |                     | Camera 1      |
| ÷            | Camera 2   | ÷        | 192.168.2.17  | Omnieye Advanced Series | BM2         | iddle Bullet Camera | Camera 2      |
| Ľ            | m Camera 3   | r?       | 192.168.2.235 | ONVIF Camera            | SR-C-A2-D   | F1-F3-IR            | Camera 4      |
|              | u <u>u</u> 192.1682.120                            |          |               |                         |             |                     | Camera 5      |
|              | Camera 4<br>192.166.2235                           |          | 192.168.2.9   | ICPDAS I/O Module       | tET-PD2PO   | R2                  | I/O Module 1  |
| Ш.           | Camera 5   | шd       | 192.168.2.19  | Pongee I/O Module       | UHF101      | coupy-by            | I/O Module 2  |
| പ്പാ         | 192.168.1247                                       | ഷാ       | 192.168.2.240 | Recorder                | SP-VMS-U    |                     | Recorder on S |
|              | A d'⊗ I/O Modules                                  |          |               | Spark Al Device         | 38-41413-0. | JUKET               |               |
| Ē.           | ✓ I/O Module 1<br>192.168.2.9                      | Ē        |               |                         |             |                     |               |
| Ð            |  | æ        |               |                         |             |                     |               |
|              | ∧ @D. Spark Al Service                             |          |               |                         |             |                     |               |
|              | Spark Al Device - Human Detection                  |          |               |                         |             |                     |               |
|              | 20062CAC   |          |               |                         |             |                     |               |
|              | Camera 3<br>192.168.2.120                          |          |               |                         |             |                     |               |
|              |  |          |               |                         |             |                     |               |
|              |  |          |               |                         |             |                     |               |
|              |  |          |               |                         |             |                     |               |
|              |  |          |               |                         |             |                     |               |
|              |  |          |               |                         |             |                     |               |
|              |  |          |               |                         |             |                     |               |
|              |  |          |               |                         |             |                     |               |
| тў:          |  | ţ        |               |                         |             |                     |               |
| 8            |  | 8        |               |                         |             |                     |               |
| Q            | ·  | 9        | é –           |                         |             |                     | <b>``</b>     |
| U            | Add Delete   | U        |               |                         |             | Add                 | Delete        |

- Different viewing modes available for the devices: hierarchy mode / list mode



## 2. USER MANAGEMENT

## 2.1 Password settings

#### 1. Configure users password

|              | SETTINGS           | GROUPS                | USERS | CLIENTS SESSIONS             |
|--------------|--------------------|-----------------------|-------|------------------------------|
| Passwo       | rd duration rules: |                       |       |                              |
| •            | Maximum numl       | ber of days of validi | ty +  |                              |
|              |                    |                       |       | ig message should appear 👖 🕂 |
| Passwo       | rd length rules:   |                       |       |                              |
|              | Minimum paccu      | vord length 5 + -     |       |                              |
|              |                    |                       |       |                              |
| Passwo       | rd complexity rule | es:                   |       |                              |
|              | Enable complex     | password rules        |       |                              |
| Comple       | exity:             |                       |       |                              |
|              | Lower case char    | racters               |       |                              |
| $\bullet$    | Upper case cha     | racters               |       |                              |
| $\mathbf{-}$ | Numeric charac     | ters                  |       |                              |
| <u> </u>     | Special characte   | ers                   |       |                              |

- Password duration rules

Maximum number of days of validity: when the password usage reaches the maximum validity period, it expires and requires resetting. The range of days is from 5 to 100 days.

Number of days before the password expires that a warning message should appear: receive a reminder N days before the password expires. The range of days for reminders is from 1 to 100 days.

- Password length rules: set the minimum password length. The range of length can be from 5 to 100 characters.
- Password complexity rules: set advanced password rules to increase password complexity.
- Complexity: lowercase characters / uppercase characters / Numeric characters / special characters.



## 2.2 Groups

#### 2.2.1 Create groups

- Create groups to classify user access schedules and permissions.



- Click [+]

- Group name: insert name for user group

## 2.2.2 Set schedules for each group

| $\equiv$       | ARGO CONFIG   |                  | Edit days | ;        |
|----------------|---|------------------|-----------|----------|
| $\hat{\Box}$   | පී Users Management   | Monday           |           | Saturday |
| ₽              | SETTINGS GROUPS USERS CLIENTS SES   | Off (            | •         | Off      |
| 8ª             | (Users v ♀ =  | Off (            | •         | off •    |
| *              | Week's day 🛛 🤛 🏷 💬  | Wednesday<br>Off | •         |          |
| d <sup>2</sup> |   | Thursday<br>Off  | •         |          |
|                | 0600 0100 0200 0300 0400 0500 0600 0700 0800 1000 1100 1200 1300 1400 1500 16 | Friday           |           |          |
| 1              | Selected time slot : 12:00 AM 🚫 : 12:00 AM 🚫 (Interval duration: 24h          |                  |           |          |
|                |   |                  |           | -        |
|                |   |                  | Cancel    |          |

- Edit days: default is set everyday. Click [...] to select specific day of the week



- Add time slot: Click [+] and adjust time slot by dragging left/right or inputting desired time
- Delete time slot: select the time slot you want to delete and click [-]
- Edit time slot: adjust the time slot by dragging left/right or inputting desired time
   Note: minimum time interval is 1 hour, maximum is 24 hours.

Argo Client



# 2.2.3 Set permissions for each group:

## Allocate permissions for different groups

|  | CAMERAS | QUADS AND FOLDERS | CONFIGURATION | USERS EVEN | TS AND ALARMS ACCESS ( |  |
|--|---------|-------------------|---------------|------------|------------------------|--|
| CAMERA   |         |                   |               |            |                        |  |
| ✓ VO Module 1<br>↓ VO Module 2<br>T I I I Camera 2<br>T I Camera 3 |         |                   |               |            |                        |  |

Cameras: select the camera, I/O modules or devices that the group can manage. Function includes: live, replay, export, manual recording, PTZ, Auxes(I/O output).

| CAMERAS     | QUADS AND FOLDERS | CONFIGURATION | USERS | EVENTS AND ALARMS | ACCESS CONTROL |
|-------------|-------------------|---------------|-------|-------------------|----------------|
| _           |                   |               | SS    |                   |                |
| Spark_e-Map | _1                |               |       |                   |                |
|             |                   |               |       |                   |                |

- Quads and folders: select the screens that the group can view. Once enabled, the group can view these monitoring screens in the Argo Client.

- Configuration: enable/disable configurations that the group can manage.

| Option               | Description  |
|----------------------|--|
| Configuration Client | When disabled, users of the selected group will not be able to |
| Access               | access Argo Config.  |
| Video configuration  | When disabled, users of the selected group will not be able to |
|                      | access video configuration on Argo Config.                     |
| Recording            | When disabled, users of the selected group will not be able to |
| configuration        | access recording configuration on Argo Config.                 |
| Events and alarms    | When disabled, users of the selected group will not be able to |
| configuration        | access events and alarms configuration on Argo Config.         |
| Access control       | When disabled, users of the selected group will not be able to |
| configuration        | access access control configuration on Argo Config.            |
| Video analytics      | When disabled, users of the selected group will not be able to |
| configuration        | access video analytics configuration on Argo Config.           |



| Logs visualization            | When disabled, users of the selected group will not be able to access log on Argo Config.                          |
|-------------------------------|--|
| Backup and restore operations | When disabled, users of the selected group will not be able to perform backup or restore on Argo Config.           |
| Licenses configuration        | When disabled, users of the selected group will not be able to access the license page on Argo Config.             |
| Maps Configuration & Access   | When disabled, users of the selected group will not be able to access or configure maps on Argo Config.            |
| Quads Configurations          | When disabled, users of the selected group will not be able to access or configure live view formaton Argo Config. |

- User grants: set user configuration that the group can manage.

| Options                  | Description  |
|--------------------------|--|
| Configuration Client     | When disabled, users of the selected group will not be able to |
| Access                   | access Argo Config.  |
| Create/Edit/Delete       | When disabled, users of the selected group will not be able to |
| Groups                   | create/edit/delete groups on Argo Config.                      |
| Create/Edit/Delete Users | When disabled, users of the selected group will not be able to |
|                          | create/edit/delete users on Argo Config.                       |
| Edit/Logout User         | When disabled, users of the selected group will not be able to |
| Sessions                 | edit/logout other users' sessions on Argo Config.              |
| Change User Password     | When disabled, users of the selected group will not be able to |
|                          | password on Argo Config.                                       |

- Event and alarm grants: set event and alarm configuration that the group can manage.

| Options        | Description  |  |  |
|----------------|--|--|--|
| Force alarms   | When disabled, users of the selected group will not be able to |  |  |
| acknowledge    | force alarm acknowledgment on Argo Config.                     |  |  |
| Trigger alarms | When disabled, users of the selected group will not be able to |  |  |
|                | manually trigger alarm on Argo Config.                         |  |  |
| Forward alarms | When disabled, users of the selected group will not be able to |  |  |
|                | forward alarm on Argo Config.                                  |  |  |



- Access control: set access control configuration that the group can manage.

| Options        | Description  |
|----------------|--|
| Live events    | When disabled, users of the selected group will not be able to |
|                | live view access control events on Argo Client.                |
| History search | When disabled, users of the selected group will not be able to |
|                | search for the record of the accessed ID on Argo Client.       |
| Manage         | When disabled, users of the selected group will not be able to |
|                | manage ID with access permission on Argo Config.               |
| Export         | When disabled, users of the selected group will not be able to |
|                | export the list of ID with access permission on Argo Config.   |

# 2.2.4 Delete group



- Select group and click [-]



## 2.3 User

## 2.3.1 Add user

| $\equiv$   | ARGO CONFIG       |         |                  |                   |           |                |    |
|------------|-------------------|---------|------------------|-------------------|-----------|----------------|----|
| $\bigcirc$ | & Users Managemer | nt      |                  |                   |           |                |    |
| B          |                   |         | SETTINGS         | GROUPS            | USERS     | CLIENTS SESSIO | NS |
| පී         | £⊕ <b>←</b>       |         | Add new ι        | user              |           |                |    |
| *          | Administrators 🔨  | Users 🔨 |                  |                   |           |                |    |
| ď          | admin             |         |                  |                   |           |                |    |
|            | $\sim$            |         |                  |                   |           |                |    |
| Ŕ          |                   |         |                  |                   | $\langle$ |                |    |
| ᠿ          |                   |         |                  |                   |           |                |    |
| Ē,         |                   |         |                  |                   |           |                |    |
| ß          |                   |         |                  |                   |           |                |    |
|            |                   |         | Group<br>Users   |                   |           | ~              |    |
|            |                   |         | Username         |                   |           |                |    |
|            |                   |         | Add new user     |                   |           |                |    |
|            |                   |         | Password         |                   |           | ©              |    |
|            |                   |         | Confirm password |                   |           |                |    |
|            |                   |         |                  |                   |           | 0              |    |
|            |                   |         | User pa          | ssword never expi | res       |                |    |
|            |                   |         | User mu          | ist change passwo | ord       |                |    |
|            |                   |         |                  | Cance             |           |                |    |

- Click [+]
- Group: select the group to which the user belongs. Default options include User Group/Administrator Group.
- Username: set user's account name, with a minimum length of 5 characters.
- Password: set the user's login password.
- Confirm password: re-enter the password for confirmation.
- User password never expires: when enabled, the user's password is not subject to password expiration rules.
- User must change password: when enabled, the user must change the password upon login.



#### 2.3.2 Delete User

| $\equiv$   | ARGO CONFIG       |              |   |
|------------|-------------------|--------------|---|
| $\bigcirc$ | & Users Managemer | nt           |   |
| Ē          | ~                 |              |   |
| රී         | Ų<br>Č⊕           |              |   |
| *          | Administrators 🔨  | Users 🔨      |   |
| r?         | admin             | Add new user | J |
|            | $\sim$            |              | R |
|            |                   |              |   |

- Click on the user you want to delete, then click on the **[X]** button at the bottom right corner.

## 2.4 Client connection information

- View and disconnect users connected to Argo Client



- Username: users currently logged into Argo client
- Group: group to which the user currently logged into the Argo Client system belongs.
- Client machine: hostname connected to Argo Config for using the Argo Client system.
- IP address: IP address of the server
- Type: login type
- Connecting timestamp: the time when the user logged into the Argo Client system.
   Note: If no user is logged into the Argo Client system, the Client Connection
   Information will not be displayed.



# 3. HEALTH DOCTOR

| Ξ            | ARGO CONFIG  | ③ Tuesday, June 11, 2024 07:28:55 PM   용 admin@spark@pk   - 이 ×                     |
|--------------|--|---|
| $\hat{\Box}$ | Health Doctor  | 쑫 Health doctor (spark¤pk)  |
| ₽            | ✓ Recorder on SPARK/J\K<br>spartagik - 192.168.2.240 |   |
| රී           |  | System will send notification and troubleshoot suggestion when failure is detected. |
|              |  |   |
|              |  |   |
|              |  |   |
| Ŕ            |  |   |
|              |  |   |
| Ē,           |  |   |
| đ            |  | Devices error Spark Al error VO Module error Disk error Argo error                  |
|              |  |   |
| ţ,           |  |   |
| 8            |  | Notify through Line or email and provide basic troubleshooting procedures.          |
| Ô            |  |   |

- System health check will automatically execute user-defined actions when the device encounters abnormalities or disconnections.
- Device type: video device / Spark AI device / I/O module / HDD / Server abnormal



## 3.1 System health check configuration



 Event duration: The system will continuously send abnormal notifications at intervals based on the configured number of seconds while the event persists, ranging from 1 to 300 seconds.

Note: Server abnormal notification needs server confirmation, hence it will not follow the event duration setting.

Notification Sequence:

The first notification will be received 5 minutes after the server is offline, and a notification will be sent every hour.

3.2 Add available action

| Actions           | Add action                |
|-------------------|---------------------------|
| Available actions |                           |
|                   | Action name               |
|                   | Action category           |
|                   | Action duration           |
|                   | 0 +<br>Actions delay time |
| V                 | ° +−                      |
| # - ∅             | Select email account      |
|                   |                           |
|                   | Subject                   |
|                   |                           |
|                   | Add Cancel                |

- Click [+]
- Action name: insert response action name
- Action duration: set the duration for which the response action should last, ranging from 0 to 300 seconds.

Note: this function is only supported when the I/O module output is enabled under the condition that there is an alarm for this event.

- Action delay time: After the trigger condition is met, the response action occurs after a delay of N seconds, ranging from 0 to 300 seconds.
   Note: this setting is only supported for setting the output time of the I/O module.
- Action category



## 3.2.1 Send email

| Add action                    |     |        |   |          | Email accounts                            |
|-------------------------------|-----|--------|---|----------|---|
| Action name                   |     |        |   |          | Configured email accounts<br>Gmail        |
| Action category<br>Send email |     | ~      |   |          |   |
| Action duration               |     |        |   |          | 유 드<br>Name                               |
| 0 + -                         |     |        |   |          | Gmail SMTP server name                    |
| 0 +<br>Select email account   |     |        |   |          | smtp.gmail.com:587                        |
| T-                            |     |        | ` | <b>~</b> | Username<br>test                          |
| 10                            |     |        | [ | Cc Bcc   | Password ©                                |
| Subject                       |     |        |   |          | Email displayed name<br>Spark_Alarm_gmail |
| Body                          |     |        | 1 |          | Email address                             |
|                               | Add | Cancel |   |          | sparksqa888@gmail.com                     |

- Select email account: click [...] to add/delete sender email accounts
- To: insert recipient email address
- Subject: insert email subject
- Email content: The content of the email for device disconnection or abnormality is predefined.
- a. Add email account
  - Click on [+] at the bottom left of the default account field
  - Name: name of the default email account
  - SMTP server name: Enter the SMTP protocol of the email service system (refer to the list below)
  - Username: insert the email account
  - Password: insert the email password

Note: email password is the application password after two-step verification, not the original email password. For G-mail, please refer to obtaining the Gmail email application password.

- Email address: insert sender' s email address
- b. Delete email account
  - Select the email address you want to delete and click [-]



c. SMTP server name: SMTP server corresponding to each email service

| Email service   | SMTP server name    | Email service | SMTP server name |
|-----------------|---------------------|---------------|------------------|
| Gmail           | smtp.gmail.com      | Zoho mail     | smtp.zoho.com    |
| Outlook         | smtp.office365.com  | Naver mail    | smtp.naver.com   |
| iCloud Mail     | smtp.mail.me.com    | Yandex mail   | smtp.yandex.com  |
| Server          |                     |               |                  |
| Yahoo mail      | smtp.mail.yahoo.com | Proton mail   | 127.0.0.1        |
| Hotmail/Live.co | smtp-               | AOL mail      | smtp.aol.com     |
| m               | mail.outlook.com    |               |                  |

Note: If the email service you are using is not listed in the SMTP server list above, please search with the keywords "email service platform name" and "smtp server name".

# Setting up two-step verification for Gmail to obtain an application-specific password:

Step 1. Go to the Gmail homepage, click on "Manage your Google Account."





Step 2. Click on "Security" to enter two-step verification, then enter your account password.

| ٢ | Home                     |                           |  |                                  |  |  |  |
|---|--------------------------|---------------------------|--|----------------------------------|--|--|--|
| Ĩ | Personal info            | How you sign in to Google |  |                                  |  |  |  |
| ۲ | Data & privacy           | Mak                       | e sure you can always access your Google Account by keep | bing this information up to date |  |  |  |
| ⋳ | Security                 | 1                         | 2-Step Verification                                      | 🕑 On since Mar 5                 |  |  |  |
| ð | People & sharing         | <u></u>                   | Password   | Last changed Dec 25, 2020        |  |  |  |
|   | Payments & subscriptions | à                         | Skip password when possible                              | 🕑 On                             |  |  |  |
| í | About                    |                           |  |                                  |  |  |  |

Step 3.On the two-step verification page, click on application password

| G          | To turn on 2. Step Verification you first need to add a ser | and stop to your  |     | dd phone number |
|------------|---|-------------------|-----|-----------------|
|            | Google Account, like a phone number                         | condistep to your |     |                 |
|            |   |                   |     |                 |
| Turp or    | 2-Step Verification   |                   |     |                 |
| Turn O     | 12-Step vernication   |                   |     |                 |
| Prevent h  | nackers from accessing your account with an                 |                   | 0   |                 |
| additiona  | Il layer of security.                                       |                   | YEA |                 |
| Unless vo  | pu're signing in with a passkey, you'll be asked            |                   | - * |                 |
| to comple  | ete the most secure second step available on                |                   |     |                 |
| your acco  | ount. You can update your second steps and                  |                   |     |                 |
| sign-in op | ptions any time in your settings. Go to Security            |                   |     |                 |
| Settings   | 3   |                   |     |                 |

If the application password does not display correctly, change the URL from https://myaccount.google.com/u/1/signinoptions/twosv?pli=1&rapt= to

https://myaccount.google.com/apppasswords?pli=1&rapt=

and press Enter to open this page.

Note: Due to Google's continuous security updates, this method may not always open the application password page. It depends on the settings of your Google account management and the interface operation at the time.

Step 4. Create an application name.



#### ← App passwords

App passwords help you sign into your Google Account on older apps and services that don't support modern security standards.

App passwords are less secure than using up-to-date apps and services that use modern security standards. Before you create an app password, you should check to see if your app needs this in order to sign in. Learn more

| 'ou don't have any | app passwords.    |                     |          |        |
|--------------------|-------------------|---------------------|----------|--------|
| o create a new ap  | p specific passwo | rd, type a name for | it below |        |
| App name           |                   |                     |          |        |
|                    |                   |                     |          |        |
|                    |                   |                     |          |        |
|                    |                   |                     |          |        |
|                    |                   |                     |          |        |
|                    |                   |                     |          | Create |
|                    |                   |                     |          |        |

Step 5. Backup the generated password, then click Finish to complete the setup process. **Note: This password serves as the email password.** 

| Vour opp possive   | rd for your daviag  |
|--|---|
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| How to use it  |   |
| Go to the settings<br>trying to set up. R<br>above.            | for your Google Account in the application or device you are eplace your password with the 16-character password shown            |
| Just like your norn<br>your Google Acco<br>share it with anyou | nal password, this app password grants complete access to<br>unt. You won't need to remember it, so don't write it down or<br>ne. |
|  |   |
|  | Done  |
|  |   |



## 3.2.2 Line Notify

| Edit action                    |   |   |
|--------------------------------|---|---|
| Action name                    |   |   |
| Action category<br>Line notify | ~ |   |
| Action duration                |   |   |
| Actions delay time             |   |   |
| Interval(second)               |   |   |
| 150                            |   | + |

- Interval (seconds): set the interval time for sending images.
- Token: paste your Line Notify token.
- Line notification content: the content of the email for device disconnection or abnormalities is default.

Default content: device is experiencing issues and temporarily unavailable. Please perform simple troubleshooting. We will notify you again once the system is back up and running.

#### Apply for Line Notify token (Please use LINE desktop version)

Step 1. Create a group with Line Notify in the Line app on your phone. If you don't have LINE Notify, please search and add it to your friends list first



Step 2. Go to Line Notify official website https://notify-bot.line.me/zh\_TW/



Step 3. Log in and open My Page.



Step 4. Click **[Issue Token]** and select the group to receive the response behavior Note: The group must include Line Notify members.

| Generate access token (For develo  | Generate token $\qquad \qquad \qquad$ |
|--|---|
| By using personal access tokens, you can configure notifications without I | Please enter a token name to be displayed before each notification.   |
| Generate token   | SPARK   |
| LINE Notify API Document   | Select a chat to send notifications to.   |
|  | Q Bearch by group name  |
|  | 1-on-1 chat with LINE Notity  |
|  |   |
|  | A CONTRACTOR  |
|  |   |
|  |   |
|  | Note: Revealing your personal access token can allow a third party to obtain<br>the names of your connected chaits as well as your profile name.      |
|  | Generate token  |
|  |   |

Step 5. Click to copy and save the token to Notepad/File

Note: If you leave this page, new tokens will not be displayed again. Before leaving the page, please copy the token first

| Your token is:   |       | Connected services  |   |             |
|--|-------|---|---|-------------|
| E============  |       | Your connected services. Press the Disconnect button to disconnect any service. |   |             |
| If you leave this page, you will not be able to view your newly<br>generated token again. Please copy the token before leaving this<br>page. |       | ۵۰ > 💼  | 2024.08.11 21.58<br>From: <b>SPARK</b><br>To: | (Disconnet) |
| Сору   | Close |   |   |             |



# 3.3 Edit response action

| Actions           | Edit action                 |
|-------------------|-----------------------------|
| Available actions | Action name                 |
|                   | mail                        |
|                   | Action category             |
|                   | Send email                  |
|                   | Action duration             |
|                   | 0 + -                       |
| J                 | 0 <b>+</b> -                |
| <br>+ − Ø         | Select email account        |
|                   | Gmail                       |
|                   | То                          |
|                   | spark@spark-security.com.yw |
|                   | Subject                     |
|                   | spark_notify                |
|                   | Body                        |
|                   | Duplicate OK Cancel         |

– Select the response action and then click  $\checkmark$ 

# 3.4 Delete response action



- Select the response action and then click [-]


## 3.5 Execute response action

| Actions           |      |                    |
|-------------------|------|--------------------|
| Available actions |      | Actions to perform |
| mail              |      | mail               |
|                   | D    |                    |
| f = S             |      |                    |
| Sav               | e Ca | ncel               |

- Apply the executed response behavior: select the response behavior you want to apply, and click [>]
- Delete the executed response behavior: select the executed response behavior you want to delete and click [-]



#### 4. EVENT AND MANAGEMENT

#### 4.1 Add/Edit/Copy/Delete Event

#### A. Add event

| $\equiv$     |   |  | () Tuesday, June 11, 2024 07:55:55 PM $~\mid~$ 8 admin@spark=pk $\mid~$ – $~$ $\square~$ $~$ $\times$ |
|--------------|---|--|---|
| $\hat{\Box}$ | 🖞 Events and alarms                               | $\mathcal{L}^{\mathcal{G}}$ Event definition (spark¤pk)                  |   |
| B            | Recorder on SPARK/JvK<br>sporkmpk - 192.168.2.240 | Event name   | Edit alarm configuration This event is an alarm   |
| 8            |   | Al_2120_Object   | Trigger alarm manually On   |
|              |   | Create new event   | Event status On   |
|              |   | Event name   | This event is an alarm  |
|              |   | Event behavior   | Off  Event status  Off  |
| *            |   | Keep event on till the condition is true V                               |   |
| ഷ്ട്ര        | Event type Filter 🖓                               | Trigger condition  |   |
| cb           |   | Devices 🔘 All/Any 🔞 Manual selection                                     |   |
| Ē,           | Al_2.120_Object                                   |  |   |
| 曡            |   |  |   |
|              |   | Week's day Everyslay 🗸 💬   |   |
|              |   | <br>   |   |
|              |   |  |   |
|              |   | Selected time stot: 1200 AM () : 1200 AM () (nterval duration: 24h: 00m) |   |
|              |   | Actions  |   |
|              |   | Available actions Actions to perform                                     |   |
|              |   | Al.2.120.Object  |   |
|              |   |  |   |
|              |   |  |   |
| <b>‡</b> ‡   | •   | Save Cancel  |   |
| 8            |   | Sove Cancer  |   |
| ő            | Add Delete Duplicate                              |  |   |
|              |   |  |   |

- Click [Add]
- Event name: insert name of the event
- Event behavior: select event behavior
  - a. Keep event on till the condition is ture: The event is established at the moment when the triggering condition is met.
  - b. Keep the event active for X seconds from the condition trigger: When the triggering condition is met, keep the event for X seconds (range: 1-100 seconds).
  - c. Keep event for X seconds after the trigger condition ends: After the triggering condition ends, maintain the event for X seconds (range: 1-100 seconds).
  - d. Keep the event active for X seconds and raise event again if condition still trigger: Keep the event for X seconds when the triggering condition is met. If the triggering condition continues to occur, restart the event (range: 1-100 seconds).



## B. Edit event

| Ξ        | ARGO CONFIG          | 🕥 Tuesday, June 11, 2024 08:03.39 PM   🖇 admin@spantepk   - 🗇 🚿  |
|----------|----------------------|--|
|          | 🖞 Events and alarms  | 🖉 Event definition (spark¤pk)  |
| B        | Recorder on SPARK/bK | Event name Edit alarm configuration This event is an alarm   |
|          |                      | Al_2120_Object On  |
|          |                      | Event between own of the condition is true events and the condition is true events and the condition is true events and e |
| 빺        |                      | na sporten er ne ok consider so de se state so de se   |
|          |                      | Trigger condition  |
|          |                      | Devices 🔿 All/Any 🔞 Manual selection   |
| -        | Event type Filter 🔽  |  |
|          | ALL 🗸                |  |
|          |                      |  |
| e,       | AI_2.120_Object      | Action activation period   |
| 6        |                      | Week's day Everyday V  |
|          |                      | 🔇 🗖 🕞 🔶 🚽  |
|          |                      |  |
|          |                      | Selected time slot : 12:00 AM 🚫 : 12:00 AM 🚫 (Interval duration: 24h : 00m)  |
|          |                      |  |
|          |                      | Actions  |
|          |                      | Available actions Actions to perform   |
|          |                      | AL2.120_Object AL2.120_Object  |
|          |                      |  |
| <b>•</b> |                      |  |
| \$       |                      |  |
| 8        |                      | Save Cancel  |
|          | Add Delete Duplicate |  |

- Select the event you want to edit, proceed with the editing and click [Save]

## C. Copy/Delete Event

| _ |             | Event t | ype    | Filter 🍸  |   |             | Event  | type |      | Filter 🍸  |
|---|-------------|---------|--------|-----------|---|-------------|--------|------|------|-----------|
|   |             | ALL     | ~      |           |   |             | ALL    |      | ~    |           |
| ¢ | NAME        |         |        |           | ¢ | NAME        |        |      |      |           |
| Ų | AI_2.120_Ob | ject    |        |           | ¢ | AI_2.120_Ob | ject   |      |      |           |
|   |             |         |        |           | ¢ | AI_2.120_Ob | ject 1 |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   |             |         |        |           |   |             |        |      |      |           |
|   | Add         |         | Delete | Duplicate |   | Add         | ł      | De   | lete | Duplicate |

- Select the event you want to copy and click [Duplicate]
- Select the event you want to delete and click [Delete]



## 4.2 Trigger conditions

| 4.2.1 | Add | trigger | condition |
|-------|-----|---------|-----------|
|       |     |         |           |

| Trigger condition                    | Add condition   |
|--------------------------------------|---|
| Devices O All/Any O Manual selection | Event Category  |
| Object Detection on 1 devices        | System events V   |
| Add Delete Edit 🖉 📎                  | Events Negate event   |
| <b></b>                              | Connected to device V Off   |
|                                      | Filter 🍸  |
|                                      | Sources   |
|                                      | SELECT NAME   |
|                                      | Camera 1 (192.168.2.232) - on Recorder on SPARK/JvK (192.168.2.240)   |
|                                      | Camera 2 (192.168.2.17) - on Recorder on SPARK小K (192.168.2.240)      |
|                                      | Camera 3 (192.168.2.120) - on Recorder on SPARK/JvK (192.168.2.240)   |
|                                      | Camera 4 (192.168.2.235) - on Recorder on SPARK/JvK (192.168.2.240)   |
|                                      | Camera 5 (192.168.1.247) - on Recorder on SPARK/J\K (192.168.2.240)   |
|                                      | I/O Module 1 (192.168.2.9) - on Recorder on SPARK/J\K (192.168.2.240) |
|                                      |   |
|                                      | Operator across sources   |
|                                      | OR AND  |
|                                      |   |
|                                      | Add Cancel  |

- Click [Add]
- Event Category: system event, event and alarms, I/O events, on edge analytics events, access control, Spark AI services (refer to below table)
- Event: select event trigger conditions (refer to below table)
- Negative event: event triggered when the trigger condition is not met
- Source: Devices and settings related to triggering event trigger conditions
- Actions between event sources: When selecting two or more sources, you can choose between "All" (AND) or "Any" (OR) to trigger the event.

| Event                | Description                                   |
|----------------------|---|
| Disk online status   | Triggers when disk is working normally.       |
| Memory load critical | Triggers when memory usage reaches 80%.       |
| Memory load          | Triggers when memory usage reaches defined %. |
| CPU usage critical   | Triggers when CPU usage reaches 80%.          |
| CPU usage            | Triggers when CPU usage reaches defined %.    |

#### - System Event



| Connected to device | Triggers when device is connected. Enable Negate event to |  |
|---------------------|---|--|
|                     | receive alarm when device is disconnected.                |  |
| Device licensed     | Triggers when device license is activated.                |  |
| Backup              | Triggers when server is making backup.                    |  |

## - Event and alarm

| Event                      | Description   |
|----------------------------|---|
| Alarm has been assigned    | Triggers when select source is assigned.                        |
| Alarm has been assigned by | Triggers when select source is assigned by defined user/group.  |
| Alarm has been managed     | Triggers when selected source is managed.                       |
| Alarm has been managed by  | Triggers when selected source is managed by defined user/group. |

## - I/O event

| Event                         | Description   |
|-------------------------------|---|
| I/O output status             | Triggers when I/O output status is active.          |
| I/O input status              | Triggers when I/O input status is active.           |
| Audio output streaming status | Triggers when the audio output status is turned on. |

## - Access Control

| Event                         | Description  |
|-------------------------------|--|
| Category signaled             | Triggers when an ID present in category is detected.     |
| Category signaled for allowed | Triggers when an ID present in category and allow list   |
| id is detected                | is detected.   |
| Category signaled for denied  | Triggers when an ID present in category and deny list is |
| id is detected                | detected.  |
| Category signaled for expired | Triggers when an ID present in category and expired      |
| id is detected                | list is detected.  |

# - Spark Al Services

| Event          | Description                    |
|----------------|--------------------------------|
| Fire detection | Triggers when fire is detected |



| License status   | Triggers when Spark AI service license status is abnormal   |
|--|---|
| Smoke detection  | Triggers when smoke is detected                             |
| Loitering detectionTriggers when loitering is detected for the set durat128 seconds) |   |
| Object detection   | Triggers when object (inc. people) is detected              |
| People density   | Triggers when target density reaches the set value (1-128). |

#### - Camera video analytics

| Event  | Description                                |
|--|--|
| Tampering         Triggers when tampering is detected      |  |
| Motion   | Triggers when motion is detected           |
| Audio  | Triggers when audio is detected            |
| Tripwire Triggers when line crossing behavior is detected. |  |
| People density   | Triggers when crowd gathering is detected. |
| Perimeter  | Triggers when an intruder is detected.     |

Note:

If the system does not have the device, the event will not have that event option.

## 4.2.1.1 Advanced Setting for Trigger Conditions

| Trigger condition |                                      |      |                   |            |   |
|-------------------|--------------------------------------|------|-------------------|------------|---|
| Devices O A       | Devices 🔿 All/Any 💿 Manual selection |      |                   |            |   |
| Object Detec      | Object Detection on 1 devices        |      |                   |            |   |
| Add               | Delete                               | Edit | $\langle \rangle$ | AND / OR ( | , |

- Click [<] or [>] to adjust the order of trigger conditions.

 Click [AND/OR] or [(] or [)] to adjust the setting of whether the trigger conditions are met or not.

Examples:

1. A and B: The event is triggered only if both conditions A and B are met.

2. A or B: The event is triggered if either condition A or condition B is met.

3. (A AND B) OR C: The event is triggered if either both conditions A and B or condition C is met.



## 4.2.2 Edit trigger condition

| ੴ Event definition (spark¤pk)            | Edit condition  |
|--|---|
| Event name                               | Event Category  |
| AI_2.120_Object 1                        | Spark AI Service 🗸  |
| Event behavior                           |   |
| Keep event on till the condition is true | Events  |
|  | Object Detection 🗸  |
| Trigger condition                        |   |
| Devices O All/Any O Manual selection     | Filter 🖓  |
| Object Detection on 1 devices            | Sources   |
|  | SELECT NAME   |
| Add Delete Edit                          | Camera 3 - Al_2.120_Object (192.168.2.120) - on Recorder on SPARK (192.168.2.240)           |
|  | Camera 5 - AnalyticsStreamPerimeter2 (192.168.1.247) - on Recorder on SPARK (192.168.2.240) |

- Select the trigger condition you want to edit and click [edit]

## 4.2.3 Delete trigger condition



- Select the trigger condition you want to delete and click [delete]



#### 4.3 **Response action**

#### 4.3.1 Response action schedule

| Action activation period |                  |          | _               |
|--------------------------|------------------|----------|-----------------|
|                          | Week's day       | Everyday | ~ 🖂             |
|                          |                  | Edit day | /s              |
|                          | Monday<br>Off    | •        | Saturday<br>Off |
|                          | Tuesday<br>Off   | •        | Sunday<br>Off   |
|                          | Wednesday<br>Off | •        |                 |
|                          | Thursday<br>Off  | •        |                 |
|                          | Friday<br>Off    | •        |                 |
|                          |                  |          |                 |
|                          |                  | Cancel   |                 |

- Edit time slot: default is set everyday. Click [...] to select specific day of the week

| Week's day                          | Everyday                                       | ~ 💮                         |   |  |
|-------------------------------------|--|-----------------------------|---|--|
|                                     |  |                             | <u> </u>                                      |  |
|                                     |  |                             | 수 🔇 🗖 📎                                       |  |
|                                     | <u>,   , ,   , , , , , , , , , , , , , , ,</u> |                             | <u>, , , , , , , , , , , , , , , , , , , </u> |  |
| 00:00 02:00 04:00 06:00 08:00 10:00 | 12:00 14:00                                    | 16:00 18:00 20:00           | 22:00 24:00                                   |  |
| Selected time slot : 11:00 PM 🕓     | : 12:00 AM ()                                  | (Interval duration: 01h : 0 | 0m)   |  |

- Add time slot: Click [+] and adjust time slot by dragging left/right or inputting desired time
- Delete time slot: select the time slot you want to delete and click [-]
- Edit time slot: adjust the time slot by dragging left/right or inputting desired time



## 4.3.2 Add response action

| Actions                              | Add action  |
|--------------------------------------|---|
| Available actions<br>Al_2.120_Object | Action name   |
| ↓<br>+ - Ø                           | Action category Start recording                               |
|                                      | Action duration<br>0 + -                                      |
|                                      | Actions delay time  |
|                                      | Select a camera   |
|                                      | Camera 1 (192.168.2.232) - Recorder on SPARK/J\K (spark¤pk) V |

- Click [+]
- Action name: insert response action name
- Action duration: set the duration for which the response action should last, ranging from 0 to 300 seconds.
- Actions delay time: After the trigger condition is met, the response action occurs after a delay of N seconds, ranging from 0 to 300 seconds.
- Action category

| Add action  |   |
|---|---|
| Action name   |   |
| Action category   |   |
| Start recording ~   |   |
| Action duration   |   |
| o + -   |   |
| Actions delay time  |   |
| 0 <b>+</b> -  |   |
| Select a camera   |   |
| Camera 1 (192.168.2.232) - Recorder on SPARK/J\K (spark¤pk) | ~ |

## A. Start recording

- Select a camera: select camera for executing event response behavior.

Note:



1. In non-alarm situations -> Start recording when the event is triggered, stop recording when the event ends.

2. In alarm situations -> Start recording when the event is triggered, stop recording when the alarm is cleared.

#### B. I/O output

| Add action  |           |
|---|-----------|
| Action name   |           |
| Action category   |           |
| Aux output 🗸  |           |
| $\frac{1}{10000000000000000000000000000000000$              |           |
| Actions delay time 0 +                                      |           |
| Select an aux output  |           |
| Camera 1 - I/O output 0 (192.168.2.232) - Recorder on SPARK | (spark¤r∽ |
|   |           |
| Set aux output new status<br>On                             |           |

- Select AUX output: choose the I/O module device to apply.
- Set new AUX output state: enable/disable the new state of AUX output.
- C. Go to preset

| Add action   |
|--|
| Action name  |
| Action category  |
| Go to preset   |
|  |
|  |
| Select a PTZ camera  |
| Camera 1 - PTZ controller 0 (192.168.2.232) - Recorder on SPARK (spark¤pk) |
| Select preset  |
|  |

- Select a PTZ camera: choose a camera with PTZ functionality.
- Select preset: choose a preset position already configured in the camera.



#### D. Start tour

| Action name  |
|--|
|  |
| Action category  |
| Start tour 🗸   |
| Action duration 0 + Actions delay time                                       |
| 0 +<br>Select a PTZ camera   |
| Camera 1 - PTZ controller 0 (192.168.2.232) - Recorder on SPARK (spark¤pk) 🗸 |
| Select tour to start   |

- Select a PTZ camera: choose a camera with PTZ functionality.
- Select tour to start: select a tour already configured in the camera.
- E. Send email

| Add action                    |     |        |        | Email accounts   |
|-------------------------------|-----|--------|--------|--|
| Action name                   |     |        |        | Configured email accounts<br>Gmail   |
| Action category<br>Send email |     | ~      |        |  |
| Action duration<br>0 + -      |     |        |        | Company Compan |
| Actions delay time            |     |        |        | SMTP server name<br>smtp.gmail.com:587   |
| Select email account          |     |        | ~      | Username<br>test   |
| То                            |     |        | Cc Bcc | Password<br>•••••  |
| Subject                       |     |        |        | Email displayed name<br>Spark_Alarm_gmail  |
| Body                          | Add | Cancel |        | Email address<br>sparksqa888@gmail.com   |
|                               |     |        |        | OK Cancel  |

- Select email account: click [...] to add/delete sender email accounts
- To: insert recipient email address
- Subject: insert email subject
- Email content: insert email content



- a. Add email account
- Click on [+] at the bottom left of the default account field
- Name: name of the default email account
- SMTP server name: Enter the SMTP protocol of the email service system (refer to the list below)
- User name: insert the email account
- Password: insert the email password
- Email Displayed Name: Enter the display name of the sender.
- Email Address: Enter the sender's email address.
- b. Delete email account
  - Select the email address you want to delete and click [-]

-

| Email service    | SMTP server name      | Email service | SMTP server name |
|------------------|-----------------------|---------------|------------------|
| Gmail            | smtp.gmail.com        | Zoho mail     | smtp.zoho.com    |
| Outlook          | ok smtp.office365.com |               | smtp.naver.com   |
| iCloud Mail      | smtp.mail.me.com      | Yandex mail   | smtp.yandex.com  |
| Server           |                       |               |                  |
| Yahoo mail       | smtp.mail.yahoo.co    | Proton mail   | 127.0.0.1        |
|                  | m                     |               |                  |
| Hotmail/Live.com | smtp-                 | AOL mail      | smtp.aol.com     |
|                  | mail.outlook.com      |               |                  |
|                  |                       | Mail.com      | smtp.mail.com    |

#### c. SMTP server name: SMTP server corresponding to each email service

Note: If the email service you are using is not listed in the SMTP server list above, please search with the keywords "email service platform name" and "smtp server name".

Please refer to obtaining password.



## F. Line Notify



- Interval (seconds): set the interval time for sending images.
- Token: paste your Line Notify token.
- Body: insert content of the email for device disconnection or abnormalities is default.

## Apply for Line Notify token (Please use LINE desktop version)

#### Step 1. create a group with Line Notify in the Line app on your phone.









Step 4. Click [Generate Token] and select the group to receive the response behavior

Note: The group must include Line Notify members.

| Generate access token (For develc  | Generate token   |
|--|--|
| By using personal access tokens, you can configure notifications without I | Please enter a token name to be displayed before each notification.          |
| Generate token   | SPARK  |
| LINE Notify API Document   | Select a chat to send notifications to.                                      |
|  | Q Search by group name   |
|  | 1-on-1 chat with LINE Notify   |
|  | · · · · · · · · · · · · · · · · · · ·  |
|  |  |
|  |  |
|  | Note: Revealing your personal access token can allow a third party to obtain |
|  | the names of your connected chars as well as your profile name.              |
|  | Generate token   |

Step 5. Click to copy and save the token to Notepad/File

Note: If you leave this page, new tokens will not be displayed again. Before leaving the page, please copy the token first





## G. LED display

| Add action  |   |
|---|---|
|   |   |
| Action name   |   |
|   |   |
| Action category   |   |
| LED Display 🗸   |   |
| Action duration   |   |
| o +-  |   |
| Actions delay time  |   |
| 0 +-  |   |
| IP Address  | â |
|   |   |
| Content   |   |
| For ex:{lpr(licenseplate)}{RGB(0,255,0)}{CLEAR(10000)}{EFFECT(0)} |   |
|   |   |
|   |   |
|   |   |
|   | ~ |
| Add Cancel  |   |

- IP address: insert LED display IP address
- Content (sample): {lpr(licenseplate)}{RGB(0,255,0){CLEAR(10000)}{EFFECT(0)}
   Please refer to the syntax explanation below

{lpr(licenseplate)}{RGB(0,255,0)}{CLEAR(10000)}{EFFECT(0)}Avoid Tailgating{RGB(255,0,0)}

{lpr(licenseplate)} => Replaced with the detected license plate.

{RGB(Red,Green,Blue)} => Specifies the corresponding text color.

If not specified, default is RGB(255,0,0) red. Refer to the "color code chart."

{CLEAR(10000)} => displays the text for 10000 milliseconds

If not specified, the text will not be cleared.

{EFFECT(0)} => Specifies the display effect of the string.

## H. HTTPS Event Sending



URL : Uniform Resource Locator, insert the desired "link" or "web address", E.g.: https://192.168.X.X:8080/ or https://www.xxxx.com

Argo Client



Content: insert {time} to print the time of event triggering. insert {Event Name} to print the name of the event triggered.



| Add action                             |                                     |
|--|-------------------------------------|
| Action name                            |                                     |
|  |                                     |
| Action category                        |                                     |
| Aux output                             | ×                                   |
| Action duration                        |                                     |
| 0 + -                                  |                                     |
| Actions delay time                     |                                     |
| o +-                                   |                                     |
|  |                                     |
| Camera 2 - I/O output RelavOutputToker | n 1 (192 168 1 247) - Slave 1 (loca |
|  |                                     |
|  |                                     |
|  |                                     |
| Set aux output new status              |                                     |
| On <b>On</b>                           |                                     |
|  |                                     |
| Actions                                |                                     |
| Available actions                      |                                     |
| .119 offline mail                      |                                     |
| LINE NOTIFY                            |                                     |
| LINE 1.90 offline                      |                                     |
|  |                                     |

Select response action and click



| Actions           |  |
|-------------------|--|
| Available actions |  |
| AI_2.120_Object   |  |
|                   |  |

- Select response action and click [-]



#### 4.3.5 Execute response action

| Actions           |        |                 |
|-------------------|--------|-----------------|
| Available actions | Actio  | ions to perform |
| AI_2.120_Object   |        | _2.120_Object   |
|                   |        |                 |
| ් +               |        | -<br>-          |
| Save              | Cancel |                 |

- Apply the executed response behavior: select the response behavior you want to apply, and click [>] and save
- Delete the executed response behavior: select the executed response behavior you want to delete and click [-] and save

#### 4.4 Set the event as alarm

| 夕 Event definition (spark¤pk)            |  |            |                     |                        |
|--|--|------------|---------------------|------------------------|
| Event name                               | <b></b>  | Edit       | alarm configuration | This event is an alarm |
| AI_2.120_Object 1                        |  | Trio       | per alarm manually  | On 💿                   |
| Event behavior                           |  | <u></u> ;  | Event status        | )n                     |
| Keep event on till the condition is true |  |            | Alarm status 🏾 🖲 A  | Auto ack               |
| Trigger condition                        |  |            |                     |                        |
| Devices O All/Any O Manual selection     |  |            |                     |                        |
| Object Detection on 1 devices            |  |            |                     |                        |
| Add Delete Edit 🖉 📎                      |  |            |                     | AND/OR ()              |
| Action activation period                 |  |            |                     |                        |
|  | Week's day Everyday V                                  |            |                     |                        |
| <ul> <li></li> </ul>                     |  | <b>≫</b> + | 8                   |                        |
| 00:00 02:00 04:00 06:00                  | 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 2      | 4:00       |                     |                        |
| Selected time slot :                     | 12:00 AM 🕥 : 12:00 AM 🕓 (Interval duration: 24h : 00m) |            |                     |                        |

- This event is an alarm: Enable the alarm to record the event.
- Click [Edit Alarm configuration].

#### 4.4.1 Edit alarm setting

A. Alarm category



Add labels to alarm for classification. Click [+/-] to add/delete alarm categories.
 The default categories are Critical and System.



## B. Alarm priority



- Drag to adjust alarm priority level

#### C. Related devices

| Related d | evices        |  |            |        |        |          |        |   |
|-----------|---------------|--|------------|--------|--------|----------|--------|---|
| ADDRES    | 5 DEVICE NAME |  |            |        |        |          |        |   |
|           |               |  |            |        |        | 60       |        |   |
| Edit c    | levices       |  |            |        |        |          |        |   |
|           |               |  |            |        |        |          |        |   |
|           |               |  |            |        |        | Filter 🍸 |        |   |
|           |               |  |            |        |        |          |        |   |
| SELECT    | ADDRESS       | DEVICE NAME                                  | MODEL NAME | STATUS | NODE   |          |        |   |
|           | 192.168.1.24  | Camera 1 - videoinput 0 - on recorder master | DM2        | Ready  | master |          |        | î |
|           | 192.168.1.24  | Camera 1 - videoinput 0 - on recorder slave2 | DM2        | Ready  | slave2 |          |        |   |
|           | 192.168.1.25  | Camera 2 - videoinput 0 - on recorder master | DM2        | Ready  | master |          |        |   |
|           | 192.168.1.25  | Camera 2 - videoinput 0 - on recorder slave2 | DM2        | Ready  | slave2 |          |        |   |
|           | 192.168.1.26  | Camera 3 - videoinput 0 - on recorder master | DM2        | Ready  | master |          |        |   |
|           | 192.168.1.26  | Camera 3 - videoinput 0 - on recorder slave2 | DM2        | Ready  | slave2 |          |        |   |
|           | 192.168.1.27  | Camera 4 - videoinput 0 - on recorder master | DM2        | Ready  | master |          |        |   |
|           | 192.168.1.27  | Camera 4 - videoinput 0 - on recorder slave2 | DM2        | Ready  | slave2 |          |        |   |
|           | 192.168.1.28  | Camera 5 - videoinput 0 - on recorder master | DM2        | Ready  | master |          |        |   |
|           | 192.168.1.28  | Camera 5 - videoinput 0 - on recorder slave2 | DM2        | Ready  | slave2 |          |        |   |
|           | 192.168.1.29  | Camera 6 - videoinput 0 - on recorder master | DM2        | Ready  | master |          |        |   |
|           | 192.168.1.29  | Camera 6 - videoinput 0 - on recorder slave2 | DM2        | Ready  | slave2 |          |        |   |
|           | 192.168.1.30  | Camera 7 - videoinput 0 - on recorder master | DM2        | Ready  | master |          |        |   |
|           | 192.168.1.30  | Camera 7 - videoinput 0 - on recorder slave2 | DM2        | Ready  | slave2 |          |        | ~ |
|           |               |  |            |        |        |          | Cancel |   |

Click *I* and select related devices

## D. Alarm procedure





- Customize Alarm Handling Procedure
- Click [+/-] to add/delete processing procedure steps.

#### E. Alarm recipients

| Alarm recipients (leave empty to send alarm to all users) | e e e e e e e e e e e e e e e e e e e |
|---|---------------------------------------|
|   | Č<br>C<br>C                           |
| Add recipients  | Add recipients                        |
| Groups  | Users                                 |
| Filter 🍸  | Filter 🖓                              |
|   |                                       |
| SELECT NAME   | SELECT USER GROUP                     |
| Administrators  | admin Administrators                  |
| Users   | admin1 Users                          |
|   | admin2 Users                          |
|   | admin3 Users                          |
|   | spark Administrators                  |

- Leave blank to send the alarm to all users and groups
- Click [+] to add groups/users as alarm recipients
- Click [-] to remove groups/users from alarm recipients

#### F. Alarm options



- User note is mandatory: when enabled, Argo client alarm recipients must fill in the user note field to close or forward alarms.
- Auto-close alarm: when enabled, the alarm will automatically close N seconds after being triggered, with a range of 1-300 seconds.



| Edit al                | arm configuration | This even   | t is an alarm |
|------------------------|-------------------|-------------|---------------|
| Trigger alarm manually |                   | On          |               |
|                        | Event status 🔘    | Off         |               |
|                        | Alarm status 🛛 🔵  | Acknowledge | ł             |

- Can be triggered manually: When enabled, you can click [Manually Trigger
   Alarm] to test the Argo Client's alarm sending functionality.
- Play a sound on client machine when alarm occurs: When enabled, a sound will be emitted from the Argo Client host when an alarm is triggered.



## **5. ACCESS CONTROL**

Add/Edit/Delete category

## 1. Add category

|                | ARGO CONFIG  | 🕚 Tuesday, June 11, 2024 08:34:06 PM 🗏 👌 admin@master   - 🗇 🚿         |
|----------------|--|---|
| Û              | Access control                                       | Access control (master)   |
| ₽              | Recorder on DESKTOP-9C43ST0<br>muster - 192.168.1250 | ALL Allow Deny Expired +  |
| ර්             | 台灣迪維科 Salve 1<br>sixv1 - 1921(83.25)                 | Filter  √ Type  √ All   |
| 쑢              | ← 台灣連維科 Slave 2<br>slave2 - 192 108 1 252            | Category settings   |
| c <sup>p</sup> |  | Category  |
|                |  | Drot in list  |
| 鹼              |  | Related devices (Reve empty to trigger category for every device)     |
|                |  | Camera 34   |
| D,             |  | Camera 62   |
| æ              |  | Camera 30   |
|                |  | Camera 61   |
|                |  | Camera 32   |
| Þ              |  | Camera 38   |
| ¢;             |  | Camera 72   |
| 8              |  | Camera bi   |
|                |  | Add Unregister Clear Reload Seve charges Docard charges Export Import |

- Click [+] to add a new category to the access service list.
- Category: name the category of the access service list
- ID not in list: IDs not in this list are the access standards
- Related devices: select the devices to be used for this access service list
   Note: if left blank, all devices are linked devices

#### 2. Edit category

|          |        |   | ALL | Allow | Deny | Expired | test | +             |                 |
|----------|--------|---|-----|-------|------|---------|------|---------------|-----------------|
| Filter 🍸 | Туре 🏹 |   |     |       |      |         |      |               |                 |
|          | ALL    | ~ |     |       |      |         |      | Edit category | Delete category |
|          |        |   |     |       |      |         |      |               |                 |

- Click **[Edit category]** to edit the list

## 3. Delete category

|          |        |   | ALL | Allow | Deny | Expired | test | +             |                 |
|----------|--------|---|-----|-------|------|---------|------|---------------|-----------------|
| Filter 🍸 | Туре 🍸 |   |     |       |      |         |      |               | <b>Y</b>        |
|          | ALL    | ~ |     |       |      |         |      | Edit category | Delete category |
|          |        |   |     |       |      |         |      |               |                 |

- Click [Delete category] to delete category



#### 5.1 Access ID

#### 5.1.1 Add access ID

| $\equiv$     | ARGO CONFIG   |          |                |          |                        |                                   | $\odot$ | Tuesday, June 11, | 2024 08:32:26 PM | 8 admin@master | • - @ × |
|--------------|---|----------|----------------|----------|------------------------|-----------------------------------|---------|-------------------|------------------|----------------|---------|
| $\hat{\Box}$ | 🔍 Access control                                      | R A      | Access control | (master) |                        |                                   |         |                   |                  |                |         |
| B            | Recorder on DESKTOP-9C43ST0<br>matter - 192.168.1 250 |          |                |          | ALL                    | Allow                             | Deny    | Expired           | +                |                |         |
| 8            | 8 台灣迪維科 Salve 1<br>slave1-1921682251                  | Filter 🍸 | Type 🏹<br>ALL  |          | Access id              |                                   |         |                   |                  |                |         |
| *            | 台灣連維科 Slave 2     starve2 - 192.168.1252              |          |                |          | _                      |                                   |         |                   |                  |                |         |
| ď            |   |          |                |          | ld type                |                                   |         |                   |                  | ~              |         |
|              |   |          |                |          |                        |                                   |         |                   |                  |                |         |
| ŝ            |   |          |                |          | Begin of 0<br>6/11/202 | overall validity<br>4 12:00:00 AM |         |                   |                  | <u>14</u>      |         |
| ഷ            |   |          |                |          | End of ov<br>7/11/202  | erall validity<br>4 12:00:00 AM   |         |                   |                  | तिवी           |         |
| Ē,           |   |          |                |          | Begin of o             | daily validity                    |         |                   |                  |                |         |
| 9            |   |          |                |          | 12:00 AM               | M<br>ilv validity                 |         |                   |                  | Q              |         |
|              |   |          |                |          | 12:00 AM               | И                                 |         |                   |                  | (+1d) 🛇        |         |
|              |   |          |                |          | Notes                  |                                   |         |                   |                  |                |         |
| ٥            |   |          |                |          |                        |                                   |         |                   |                  |                |         |
| ζţ,          |   |          |                |          |                        |                                   |         |                   |                  |                |         |
| 8            |   |          |                |          | Categorie              | S. Allow Deny                     | A       | vdd Car           | icel             |                |         |
| Ő            |   | Add      | Unregister     | Clear    |                        | Reload                            | Save c  | hanges Discer     | d changes        | Export         | Import  |

#### - Select [List category] and click [Add]

 Access ID: insert access ID, the system will use this ID as the basis for identifying vehicle entry and exit.

Note: insert an alphanumeric combination without "-" such as: ABC1234.

- id type: select ID category

LPR: for license plate recognition, insert the license plate number in this field.

RFID: high-frequency RFID (e-tag), insert the RFID number here.

- Begin of overall validity: ID effective start date.
- End of overall validity: ID effective end date.
- Begin of daily validity: ID daily valid entry and exit start time.
- End of daily validity: ID daily valid entry and exit end time.
- Note: You can enter ID notes as needed (optional).



## 5.1.2 Edit access ID

| $\equiv$ | ARGO CONFIG  |               |                |     |        | () Tues           | day, June 11, 2024 | 4 08:30:04 PM | & admin@master | - 0 ×  |
|----------|--|---------------|----------------|-----|--------|-------------------|--------------------|---------------|----------------|--------|
|          | 🔍 Access control                                   | Access cor    | ntrol (master) |     |        |                   |                    |               |                |        |
| ₽        | Recorder on DESKTOP-9C43ST0 master - 192-168-1230  |               |                | ALL | Allow  | Deny              | Expired            | +             |                |        |
| 8        | 台灣迪維科 Salve 1<br>slave1 - 1921682251               | Filter 🏹 Type | ۲<br>~         |     |        |                   |                    |               |                |        |
|          | ← 台灣迪維科 Slave 2 slave 2 - 192.1681.252             |               |                |     |        |                   |                    |               |                |        |
| c\$      |  | ARQ-2991 LI   |                |     |        | day, July 11, 202 |                    |               |                |        |
|          | Access id<br>FHC8637                               |               |                |     |        | /                 |                    |               |                |        |
| 1        | ld type  |               |                |     |        |                   |                    |               |                |        |
| ЛЪ       | LPR V  |               |                |     |        |                   |                    |               |                |        |
|          | Begin of overall validity<br>6/11/2024 12:00:00 AM |               |                |     |        |                   |                    |               |                |        |
|          | End of overall validity                            |               |                |     |        |                   |                    |               |                |        |
| <u>س</u> | 6/12/2024 10:00:00 AM                              |               |                |     |        |                   |                    |               |                |        |
|          | 12:00 AM   |               |                |     |        |                   |                    |               |                |        |
|          | End of daily validity                              |               |                |     |        |                   |                    |               |                |        |
| -        | 12:00 AM (+1d)                                     |               |                |     |        |                   |                    |               |                |        |
| Ϋ́,      | Notes  |               |                |     |        |                   |                    |               |                |        |
| 8        |  |               |                |     |        |                   |                    |               |                |        |
| Ô        | Categories: Mow Deny                               | Add Unreg     | ister Clear    |     | Reload | Save chang        | es Discard ch      | anges         | Export         | Import |

- Select the access ID you want to edit, proceed to edit and then and click [Save]
- Access ID: cannot be modified.
- Access type: cannot be modified.
- Begin of overall validity: ID effective start date.
- End of overall validity: ID effective end date.
- Begin of daily validity: ID daily valid entry and exit start time.
- End of daily validity: ID daily valid entry and exit end time.
- Note: You can enter ID notes as needed (optional).



## 5.1.3 Deactivate/Clear access ID

#### A. Deactivate

| $\equiv$        | ARGO CONFIG   |                    |        |            |         |              |           | () Tu                                       | uesday, June 1 | 1, 2024 08:28:15 PM  | I & admin@master |        |
|-----------------|---|--------------------|--------|------------|---------|--------------|-----------|---|----------------|----------------------|------------------|--------|
| $\hat{\Box}$    | 🔍 Access control  |                    | Access | control    | (master | r)           |           |   |                |                      |                  |        |
| ₽ª              | Recorder on DESKTOP-9C43ST0<br>matter - 192-168.1.250     |                    |        |            |         | ALL          | Allow     | Deny  | Expired        | +                    |                  |        |
| පී              | 合灣連維科 Salve 1<br>slave1 - 192:1682251                     | Filter 🏹           |        | Type 🍸     |         |              |           |   |                |                      |                  |        |
| *               | ← 台灣迪維科 Slave 2<br>slave2 - 192 168 1252                  |                    |        |            |         |              |           |   |                |                      |                  |        |
| cf <sup>2</sup> |   | ARQ-299<br>FHC8637 |        | LPR        |         | Tuesday, Jun | e 11, 202 | Thursday, July 11, 20<br>Wednesday, June 12 | 2 00:00:00 - 2 | 14:00:00<br>14:00:00 | Deny<br>Allow    |        |
|                 | Access id ARQ-2991  |                    |        |            |         |              |           |   |                |                      |                  |        |
| <u>شر</u>       | ld type   |                    |        |            |         |              |           |   |                |                      |                  |        |
| ഷ               | LPR V   |                    |        |            |         |              |           |   |                |                      |                  |        |
|                 | Begin of overall validity           6/11/2024 12:00:00 AM |                    |        |            |         |              |           |   |                |                      |                  |        |
|                 | End of overall validity                                   |                    |        |            |         |              |           |   |                |                      |                  |        |
| 9               | 7/11/2024 12:00:00 AM                                     |                    |        |            |         |              |           |   |                |                      |                  |        |
|                 | Begin of daily validity 12:00 AM                          |                    |        |            |         |              |           |   |                |                      |                  |        |
|                 | End of daily validity                                     |                    |        |            |         |              |           |   |                |                      |                  |        |
|                 | 12:00 AM (+1d)  |                    |        |            |         |              |           |   |                |                      |                  |        |
| ų,              | Notes   |                    |        | <u> </u>   |         |              |           |   |                |                      |                  |        |
| 8               |   |                    |        |            |         |              |           |   |                |                      |                  |        |
| Ő               | Categories: Alow Cerry Course                             | Add                | ı (    | Jnregister | Clear   |              | Reloa     | ad Save cha                                 | nges Dis       | card changes         | Export           | Import |

- Select access ID you want to deactivate and click [Unregister]

## B. Clear

| $\equiv$     | ARGO CONFIG   |          |       |            |          |     |        |      | 🕔 Tuesday, J  | une 11, 20  | 24 08:27:34 PM | admin@mast | er   - 🗇 🛛 |
|--------------|---|----------|-------|------------|----------|-----|--------|------|---------------|-------------|----------------|------------|------------|
| $\hat{\Box}$ | 🔍 Access control                                      |          | Acces | s control  | (master) | )   |        |      |               |             |                |            |            |
| ₽            | Recorder on DESKTOP-9C43ST0<br>metter - 192.108.1.250 |          |       |            |          | ALL | Allow  | Deny | Expire        | d           | +              |            |            |
| ස්           | 合灣這維科 Salve 1<br>staret - 192.168.2251                | Filter 🤉 | 7     | Туре 🍸     |          |     |        |      |               |             |                |            |            |
| *            | → 台灣連維科 Slave 2<br>slave2 - 192-168.1232              |          |       | ALL        |          |     |        |      |               |             |                |            |            |
| r\$          |   | ARQ-29   | 91    | LPR        |          |     |        |      | 11, 202 00:00 | 00 - 24:00: | 00             |            |            |
|              | Access id   | FHC863   |       |            |          |     |        |      |               |             |                |            |            |
|              |   |          |       |            |          |     |        |      |               |             |                |            |            |
| а́с          | ld type   |          |       |            |          |     |        |      |               |             |                |            |            |
| <i>a</i> .   | LPR V   |          |       |            |          |     |        |      |               |             |                |            |            |
| CD           | Begin of overall validity                             |          |       |            |          |     |        |      |               |             |                |            |            |
| Ē,           | 6/11/2024 12:00:00 AM                                 |          |       |            |          |     |        |      |               |             |                |            |            |
|              | End of overall validity                               |          |       |            |          |     |        |      |               |             |                |            |            |
| <b>ee</b>    | 6/12/2024 10:00:00 AM                                 |          |       |            |          |     |        |      |               |             |                |            |            |
|              | Begin of daily validity                               |          |       |            |          |     |        |      |               |             |                |            |            |
|              | 12:00 AM  |          |       |            |          |     |        |      |               |             |                |            |            |
|              | End of daily validity                                 |          |       |            |          |     |        |      |               |             |                |            |            |
|              | 12:00 AM  |          |       |            |          |     |        |      |               |             |                |            |            |
| ų,           | Notes   |          |       |            |          |     |        |      |               |             |                |            |            |
| 8            |   |          |       |            | J        |     |        |      |               |             |                |            |            |
| Ő            | Categories: Allor Dery aprice                         | Ad       | ld    | Unregister | Clear    |     | Reload | Sa   | we changes    | Discard o   | changes        | Export     | Import     |

- Click [Clear] to delete all access ID



## 5.1.4 Export/Import access ID

#### A. Export

| ≣     | ARGO CONF |                   |                           |          |                 |          |                  |                           |                       |                  |       | 🕔 Tuesd         | ay, June 11, | 2024 08:26:06 PM | u I S | admin@master   - 🗇 🛛 |
|-------|-----------|-------------------|---------------------------|----------|-----------------|----------|------------------|---------------------------|-----------------------|------------------|-------|-----------------|--------------|------------------|-------|----------------------|
| Ω     | Acc       | cess contro       | ol                        |          | Acces           | ss cont  | rol (m           | aster)                    |                       |                  |       |                 |              |                  |       |                      |
| ₽     | Reco      | order on DESKT    | OP-9C43ST0                |          |                 |          |                  |                           | ALL                   | Allow            | Deny  |                 | xpired       |                  |       |                      |
| QA.   | 8 歳       | National Salve 1  |                           |          | Filter 🍸        | Type *   | 7                |                           |                       |                  |       |                 |              | <u>9</u>         |       |                      |
| -<br> | 台灣        | 動維料 Slave 2       |                           |          |                 | ALL      |                  |                           |                       |                  |       |                 |              |                  |       |                      |
| ÷     | siave2    | 2 - 192.168.1.252 |                           |          |                 |          |                  |                           |                       |                  |       |                 |              |                  |       | Onny                 |
| Ŷ     |           |                   |                           |          |                 |          |                  |                           |                       |                  |       |                 |              |                  |       | Allow                |
| le.   |           |                   |                           |          |                 | C Expor  | t access id:     | s                         |                       |                  |       |                 |              |                  | ×     | ř.                   |
| á     |           |                   |                           |          |                 |          | ~ † I            | <ul> <li>Spark</li> </ul> | Argo Clients          | > Argo Config    |       |                 |              |                  |       |                      |
| ละ    |           |                   |                           |          |                 | 相合管理     | 1- ×             | 増資料夾                      |                       |                  |       |                 |              |                  |       |                      |
| —     |           |                   |                           |          |                 |          | ·拼<br>(百         |                           | 名相<br>E Confin F)     | A Perimeter Setu | n :   | 修改日期<br>2024/3/ | 28.16:50     | 加型               |       |                      |
| 8     |           |                   |                           |          |                 |          | IK<br>1          |                           | es-ES                 |                  | 5     | 2024/6/         | 7 14:18      | 機業資料交            |       |                      |
| 2     |           |                   |                           |          |                 | <b>1</b> | -機磁碟 (C          | ) <u> </u>                | 1 10-11               |                  |       | 2024/6/         | / 14:10      | 14.8.9.2         |       |                      |
|       |           |                   |                           |          |                 | 4        | 1業名研(N)<br>医検知可の | ): accessid               | i<br>s (* visv)       |                  |       |                 |              |                  | ۰ ،   |                      |
|       |           |                   |                           |          |                 |          |                  | Excel File<br>CSV Files   | s (* xlsx)<br>(*.csv) |                  |       |                 |              |                  |       |                      |
|       |           |                   |                           |          |                 | ~ 16R3   | 相夾               |                           |                       |                  |       |                 | 存檔(S)        |                  |       |                      |
|       |           |                   |                           |          |                 |          |                  |                           |                       |                  |       |                 |              |                  |       |                      |
| ₽¥    |           |                   |                           |          |                 |          |                  |                           |                       |                  |       |                 |              |                  |       | 1991                 |
| 8     |           |                   |                           |          |                 |          |                  |                           |                       |                  |       |                 |              |                  |       |                      |
| ĉ     |           |                   |                           |          | Add             |          |                  | Clear                     |                       | Reload           | -ira  |                 |              |                  | ř     | Export Import        |
|       |           |                   |                           |          |                 |          |                  |                           |                       |                  |       |                 |              |                  |       | import               |
| Acce  | A Iss id  | ld type           | Begin of overall validity | End of o | verall validity | B        | gin of da        | aily validi               | y End of              | daily validity   | Notes |                 | G            |                  |       | Categories           |
| FHC   | 8637 L    | LPR               | 2024/06/11 00:00:00       | 2024/0   | 6/12 10:00:00   | 00       | 00:00:00         |                           | 24:00:                | 00               |       |                 |              |                  | 1     | Allowed              |
| ARC   | -2991 L   | LPR               | 2024/06/11 00:00:00       | 2024/0   | 7/11 00:00:00   | 00       | 00:00:00         |                           | 24:00:                | 00               |       |                 |              |                  | 1     | Denied               |
|       |           |                   |                           |          |                 |          |                  |                           |                       |                  |       |                 |              |                  |       |                      |

- Click **[Export]** to export the list of access IDs.
- File type: xlsx, csv.
- Note: Before updating or reinstalling the application, make sure to export and backup access ID data to prevent loss.

## B. Import

| $\equiv$   | ARGO CONFIG   |                     |            |                 |                                |                                   | 🕓 Tu                                   | esday, June | 11, 2024 08:2           | 24:52 PM    | <sup>₽</sup> admin@r | naster 🗌 —    | ð ×  |
|------------|---|---------------------|------------|-----------------|--------------------------------|-----------------------------------|--|-------------|-------------------------|-------------|----------------------|---------------|------|
| $\bigcirc$ | Access control  | Acces               | ss control | (master)        |                                |                                   |  |             |                         |             |                      |               |      |
| ₽          | Recorder on DESKTOP-9C43ST0<br>master : 192.168.1.250 |                     |            |                 | ALL                            | Allow                             | Deny                                   | Expired     | +                       |             |                      |               |      |
| පී         | 台灣連維科 Salve 1<br>stave1 - 192.108.2251                | Filter 🏹            | Type 🏹     |                 |                                |                                   |  |             |                         |             |                      |               |      |
|            | 台灣迪維科 Slave 2     slave2 - 192-168.1252               |                     | ALL        |                 |                                |                                   |  |             |                         |             |                      |               |      |
| cf         |   | ARQ-2991<br>FHC8637 | LPR<br>LPR |                 | Tuesday, Juni<br>Tuesday, Juni | e 11, 202 Thurs<br>e 11, 202 Wedn | day, July 11, 202<br>esday, June 12, 1 | 00:00:00 -  | 24:00:00<br>24:00:00    |             |                      | Deny<br>Allow |      |
|            |   |                     | a la       | port accerr ide |                                |                                   |  |             |                         |             | ~                    |               |      |
| а́с,       |   |                     | ÷          | → × ↑ 📃         | > 本機 > 県面                      |                                   |  |             |                         |             | م<br>م               |               |      |
| ഷ          |   |                     | 組合         | 管理 - 新増<br>文件   | 資料夾                            | 28                                |  |             | 4576-010                |             |                      |               |      |
| E)         |   |                     |            | 音樂              |                                | accessids                         |  |             | 2024/6                  | 1 Access id | -                    |               |      |
|            |   |                     | 5          |                 |                                | AMTK Mill                         | 8回補紀錄<br>'Release note                 |             | 2024/5<br>2023/1        | 3 ARQ-299   | 1                    |               |      |
|            |   |                     |            | ▲機磁線(C:)        |                                | history03                         | 21-1                                   |             | 2024/8<br>2024/3 ~<br>> | 5<br>< >    | •                    |               |      |
|            |   |                     |            |                 | 檔案名稿(N): [                     | accessids                         |  |             | Excel Files (           | •xlsx)      | _                    |               |      |
|            |   |                     |            |                 |                                |                                   |  |             | 開啟(O)                   |             | м                    |               |      |
| ¢\$        |   |                     |            |                 |                                |                                   |  |             |                         |             |                      |               |      |
| 8          |   |                     |            |                 |                                |                                   |  |             |                         |             |                      | J             |      |
| ő          |   | Add                 | Unregister | Clear           |                                | Reload                            | Save char                              | iges Di     | scard change            | 5           | Export               |               | port |

- Click [Import] to Import access ID file.



| Ξ        | ARGO CONFIG                 |                 |                     |            |                     | 🕔 Wednesday, Jui | ne 12, 2024 09:32:39 AM 🛛 💍 admi | n@desktop-6kbn55a 🛛 — 🗇 🗙 |
|----------|-----------------------------|-----------------|---------------------|------------|---------------------|------------------|----------------------------------|---------------------------|
|          | 🔍 Access control            | Access contro   | l (desktop-6kbn55a) |            |                     |                  |                                  |                           |
| B°       | Recorder on DESKTOP-6KBN55A |                 |                     | ALL        | Allow Deny E        | xpired +         |                                  |                           |
| 8        | B Slave 1 kontext           | Filter ☆ Type ☆ |                     |            |                     | 2.               |                                  |                           |
| *        | Failover                    | ACCESS ID       | ID TYPE             | START DATE | EXPIRE DATE         | TIME VALIDITY    | NOTES                            | CATEGORIES                |
| ~\$z     |                             |                 |                     |            |                     |                  |                                  | Deny                      |
| 44<br>10 |                             |                 |                     |            |                     |                  |                                  | Allow                     |
| 4        |                             |                 |                     |            |                     |                  |                                  |                           |
| 藏        |                             |                 |                     |            |                     |                  |                                  |                           |
| ഷ        |                             |                 |                     |            |                     |                  |                                  |                           |
| e,       |                             |                 |                     |            |                     |                  |                                  |                           |
| ₽        |                             |                 |                     |            |                     |                  |                                  |                           |
|          |                             |                 |                     |            |                     |                  |                                  |                           |
|          |                             |                 |                     |            |                     |                  |                                  |                           |
|          |                             |                 |                     |            |                     |                  |                                  |                           |
|          |                             |                 |                     |            |                     |                  |                                  |                           |
|          |                             |                 |                     |            |                     |                  |                                  |                           |
|          |                             |                 |                     |            |                     |                  |                                  |                           |
| D        |                             |                 |                     |            |                     |                  |                                  |                           |
| \$       |                             |                 |                     |            |                     | -                |                                  |                           |
| ٩        |                             |                 |                     |            |                     |                  |                                  |                           |
| •        |                             |                 |                     |            |                     |                  |                                  |                           |
| Û        |                             | Add             | Clear               | l          | Reload Save change: | Discard changes  |                                  | faport import .           |

- After importing, click **[Save changes**] to finalize the process. If you do not wish to save the import results, please click **[Discard Changes]**.
- File type: xlsx, csv.
- Note: It is recommended to add access IDs and export them before importing to ensure that the imported file complies to the file type format.
- C. File type sample

|           | 🛛 AutoSave 💽 🕅 🗄   | タッ ペッ マ accessids + Saved to thi                                 | PC ❤  | irch                    |   |   | 1 -                     | σ×          |
|-----------|--|--|---|-------------------------|---|---|-------------------------|-------------|
|           | File Home Insert   | Page Layout Formulas Data Revi                                   | ew View Automate Developer                              | Help                    |   |   |                         | iff Share ~ |
|           | Paster 🖋 🖪 I   |  | E = ≫ · · 20 Wrap Text E = E E E E E Merge & Center · · | General ~<br>\$ ~ % 9 % | Conditional Format as Cell<br>Formatting * Table * Styles | Insert Delete Format<br>↓ Insert Delete Format ↓ ∑ ↓ 27<br>↓ Sort | 7 O III Add-ins Analyze |             |
|           | Clipboard 15   | Font 54  | Alignment   | ls Number ls            | Styles  | Cells Edit  | ing Add-ins             | ~           |
|           | A1 ~ I × ~   | fx Access id   |   |                         |   |   |                         | ~           |
| vlsv filo | A Access id  | B C  | D<br>End of overall validity                            | Bogin of daily validity | End of daily validity                                     | G   | Categories              | - í         |
|           | 2 FHC8637 LPR  | 2024/06/11 00:00:00  | 2024/06/12 10:00:00                                     | 00:00:00                | 24:00:00  | votes   | Allowed                 |             |
|           | ARQ-2991 LPR   | 2024/06/11 00:00:00  | 2024/07/11 00:00:00                                     | 00:00:00                | 24:00:00  |   | Denied                  |             |
|           |  |  |   |                         |   |   |                         |             |
| csy file  | <ul> <li>accessids - 記事本<br/>檔案(F) 編輯(E) 格式/</li> <li>ACCESS ID; ID TY/</li> <li>FHC8637: IPR: 20</li> </ul> | (0) 檢視(V) 說明<br>PE; BEGIN OF OVERALL V<br>024-06-11T00:00:00 000 | ALIDITY; END OF OVERA<br>7: 2024-06-12T10:00:00         | LL VALIDITY; BEGI       | N OF DAILY VALID  | PITY; END OF DAILY VALI   | DITY; NOTES; CATEG      | GORIES      |
| C3V IIIC  | ARQ-2991; LPR; 2   | 2024-06-11T00:00:00.00   | 0Z; 2024-07-11T00:00:0                                  | 0.000Z; 00:00:00; 2     | 24:00:00; ; Denied  |   |                         |             |



## 6. VIDEO ANALYTICS DATA COLLECTION

## 6.1 Sens Cam settings

## 6.1.1 Login settings

|                             |  |                      |   | бая (б)<br>Гор SENS-САМ - 2064070046С7         | 100 π <sup>50</sup> C-A2-OF1-F3-IA 0050F5AC15 | <b>[6]</b>    | C A2 0F1 /3 IR 546D520963   | (i) (i) (i) (i) (ii) (ii) (ii) (ii) (ii | NeTIDA 20030 - 206407225566 |
|-----------------------------|--|----------------------|---|--|---|---------------|---|---|-----------------------------|
| Spa<br>@<br>#<br>@          | USER Name<br>Password<br>Re-type Password<br>DHCP server<br>NTP server<br>Time Zone<br>C | Firs                 | tem     tem | Initia José José José José José José José José |   | <b>f</b> øj * | NG CAN 306300100<br>取505 CAN 30600000<br>取計算数<br>単数に数<br>取用の数<br>の数<br>の数<br>の数<br>の数<br>の数<br>の数<br>の数<br>の数<br>の数 | - NB     - MB     - MB     - MS000068   | K P ROLMON K INACTURE       |
| Product Code<br>MAC Address | SR-C-12-SENS-F6-TW_<br>20:E4:07:00:1D:88   | WHITE<br>Copyright ( | 02012-2022 spark  | - All rights reserved.                         | Li<br>Save                                    | (J<br>undo    |   |   |                             |



SENS-CAM AI

## TTNATECHNOLOGY



# [] ©

- On the web browser, insert Sens Cam default IP address 192.168.1.219
- User Name: insert username
- Password: insert password
- Re-type Password: retype the password

Argo Client



- DHCP server: if choosing "obtain an IP address and DNS server automatically", please check the assigned IP address through computer network settings. (If not configured, the IP address defaults to 192.168.1.219)
- NTP server: enter the Network Time Protocol of the device platform for time synchronization.
- Time Zone: set the time zone (select GMT+8 for Taiwan).
- After completing the initial login settings, log in again with the new IP address to access the interface.

|   |  | home setup logout           |
|---|--|-----------------------------|
| spark   | SENS-CAM AI  | TTM                         |
| information<br>image                                    | ▶ २००० ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ► ►   |                             |
| audio<br>network<br>date & time<br>accounts<br>ADVANCED | Mirror/Flip     None     ▼       rotation     Image Rotation     0     ▼       Main Profile     Edit     H264, 1920x10       profiles     Secondary Profile     Edit     H264, 640x360 | 80, 60fps, Fixed Bitrate 4M |
|   | Image: Streams     Video Clip Format     Main Profile     ▼       streams     Snapshot Format     Main Profile     ▼   |                             |
|   | Overlay   None     overlay   |                             |
|   |  | save undo                   |
|   | Copyright ©2012-2022 spark - All rights reserved.  |                             |

6.1.2 Image setting

- Click on setup and then click video
- rotation: select Mirror/Flip and Image Rotation settings.
- profiles: edit Main Profile (main stream) and Secondary Profile settings.
- streams: select the stream formats for Video Clip Format and Snapshot Format.
- overlay: when enabled, configure the appearance of the overlay on the screen.



## 6.1.3 Analytics settings



#### A. Add analytics

- Click setup then click ADVANCED and select analytics
- Enabled: enable to set up analytics
- Line name: insert the name
- Detect: select object to be detected (person, bicycle, car, motorbike, bus, truck)



- Auto Reset counts: When enabled, automatically reset counts at the specified mode and settings.
  - 1. Mode: select time mode and threshold
  - 2. Start time: select start time
  - 3. Frequency: select frequency (in hours)
- Click Add

Note: The example provided is for setting up intelligent analysis for in-out count. For other types of analysis, please configure accordingly.



#### B. Delete analytics



- Select the analytics line name and click "remove" or "remove all" to delete all analytics.



## 6.2 Video analytics data collection settings

#### 6.2.1 Add video analytics parameters

| $\equiv$   | ARGO CONFIG  |                     |                      | 🕔 Tuesday, June 11, 2024 08:10:56 PM | 👃 admin@desktop-6kbn55a   - 🗇 🛛 |
|------------|--|---------------------|----------------------|--------------------------------------|---------------------------------|
| $\bigcirc$ | Analytics data collection  | 😤 Selected ana      | lytics configuration |                                      |                                 |
| F          | 譯 NAME   | (i)                 | Name                 |                                      |                                 |
| 8          | People count   | Info                | Vehicles count       |                                      |                                 |
| **         | 💖 People density   | aut I               |                      |                                      |                                 |
| ÷.         | Heatmap  | Categories          | truck                |                                      |                                 |
| 17         |  |                     | J bus                |                                      |                                 |
|            |  |                     | J bicycle            |                                      |                                 |
| Ŕ          |  |                     | car                  |                                      |                                 |
| රැව        |  |                     | motorcycle           |                                      |                                 |
| e,         | Add analytics logic  | الم<br>Video inputs | Са Са NAME           | MODEL NAME                           | IP ADDRESS                      |
| ٢          | Analytics logic name   |                     |                      |                                      |                                 |
|            |  |                     |                      |                                      |                                 |
|            | Analytics lonic type   |                     |                      |                                      |                                 |
|            | Provide the second seco |                     |                      |                                      |                                 |
|            |  |                     |                      |                                      |                                 |
| ţ,         | Add Cancel   |                     |                      |                                      |                                 |
| 8          |  |                     |                      |                                      |                                 |
| ů          | Add Delete   |                     | Sa                   | ve Cancel                            |                                 |

- Click [Add] to add new parameters
- Analytics logic name: name the parameter
- Analytics logic type: select type (vehicle counting / people counting / people density / heatmap)

## 6.2.2 Set video analytics parameters

| $\equiv$    | ARGO CONFIG               |                 |                     | () Tuesday, June 11, 2024 08:08:47 PM | 👃 admin@desktop-6kbn55a 🛛 – 🛛 🛛 👋 |
|-------------|---------------------------|-----------------|---------------------|---------------------------------------|-----------------------------------|
| 企           | Analytics data collection | 🗟 Selected anal | ytics configuration |                                       |                                   |
| ₽           | 않음 NAME                   |                 | Name                |                                       |                                   |
| ප්          | Vehicles count            | Info            | Vehicles count      |                                       |                                   |
|             | People density            | ul I            |                     |                                       |                                   |
|             | 😳 Heatmap                 | Categories      |                     |                                       |                                   |
| Ľ           |                           |                 | bus                 |                                       |                                   |
|             |                           |                 | bicycle             |                                       |                                   |
| and a       |                           |                 | 🧹 car               |                                       |                                   |
| <u>_1</u> _ |                           |                 | motorcycle          |                                       |                                   |
| Ē           |                           | e               |                     |                                       |                                   |
| Ē,          |                           | Video inputs    | <u> </u>            | MODEL NAME                            | IP ADDRESS                        |
|             |                           |                 |                     |                                       |                                   |

- Info: displays name of the parameter
- Categories: select the detection object
- Video inputs: select Sens cam device



| $\equiv$     | ARGO CONFIG                 |                       |                      | () Tuesday, June 11, 2024 08:06:40 PM | 8 admin@desktop-6kbn55a   - 🗇 🗙 |
|--------------|-----------------------------|-----------------------|----------------------|---------------------------------------|---------------------------------|
| $\hat{\Box}$ | 🕷 Analytics data collection | 🗟 Selected anal       | lytics configuration |                                       |                                 |
| ß            |                             | (i)                   | Name                 |                                       |                                 |
| පී           |                             | Info                  | CAR                  |                                       |                                 |
| *            |                             | _ittl                 |                      |                                       |                                 |
| ď            |                             | Categories            | truck                |                                       |                                 |
|              |                             |                       | bus                  |                                       |                                 |
| ~            |                             |                       | car                  |                                       |                                 |
| illiQ        |                             |                       | motorcycle           |                                       |                                 |
| CID          |                             |                       |                      |                                       |                                 |
| <u> </u>     |                             |                       |                      |                                       |                                 |
| Ē,           |                             | الالت<br>Video inputs |                      | MODEL NAME                            | IP ADDRESS                      |
| ii;<br>Cii   |                             | Uideo inputs          | <u></u>              | MODEL NAME                            | IP ADDRESS                      |
| TT<br>CO     |                             | ित<br>Video inputs    | <u></u> маме         | MODEL NAME                            | IP ADDRESS                      |
|              |                             | ିରୁଷ<br>Video inputs  | <u>Ва</u> Ва наме    | MODEL NAME                            | IP ADDRESS                      |
|              |                             | Video inputs          | <u> Ва наме</u>      | MODEL NAME                            | IP ADDRESS                      |
|              |                             | video inputs          | <u>Ва</u> NAME       | MODEL NAME                            | IP ADDRESS                      |
|              |                             | Video inputs          | <u>Са</u> Каме       | MODEL NAME                            | IP ADDRESS                      |
|              | <b>→</b>                    | Pa<br>Video inputs    | <u>Са</u> Каме       | MODEL NAME                            | IP ADDRESS                      |

# 6.2.3 Delete video analytics parameter

- Select the parameter you want to delete and click [Delete]



#### 7. BACKUP AND RESTORE

#### 7.1 Backup

| $\equiv$   | ARGO CONFIG | ;         |                     |                             |             |                             | () TI        | uesday, June 11, 2024 08:05:00 P | M 8 admin@desktop-6kbn55 | al- cu × |
|------------|-------------|-----------|---------------------|-----------------------------|-------------|-----------------------------|--------------|----------------------------------|--------------------------|----------|
| $\bigcirc$ | (1) Bac     | kup and   | restore             |                             |             |                             |              |                                  |                          |          |
| ₽          |             |           |                     |                             | BACKUP      |                             | ULE BACKUP   |                                  |                          |          |
| 8          |             | —         |                     |                             |             |                             |              | Device type                      | Filter 🍸                 |          |
|            |             | Select    | all available devic | 25                          |             |                             |              | All ~                            |                          |          |
|            |             | SELECTION | IP ADDRESS          | DEVICE NAME                 | DEVICE TYPE | MODEL NAME                  | OPTIONS      | STATUS                           |                          |          |
| CY         |             |           |                     | Slave 1                     | Recorder    | Slave 1                     |              | base Ready                       |                          |          |
|            |             | $\square$ | 192.168.1.246       | Recorder on DESKTOP-6KBN55A | Recorder    | Recorder on DESKTOP-6KBN55A | Events datab | base Ready                       |                          |          |
| 藏          |             |           | 192.168.1.249       | Failover                    | Recorder    | Failover                    |              | ase Ready                        |                          |          |
| Ð          |             |           |                     |                             |             |                             |              |                                  |                          |          |
|            |             |           |                     |                             |             |                             |              |                                  |                          |          |
| 6          |             |           |                     |                             |             |                             |              |                                  |                          |          |
|            |             |           |                     |                             |             |                             |              |                                  |                          |          |
|            |             |           |                     |                             |             |                             |              |                                  |                          |          |
| źĊs        |             | Selected  | d backup o          | lestination file:           |             |                             |              |                                  |                          |          |
| -2-3-      |             |           |                     |                             |             |                             |              |                                  | Browse                   |          |
| 8          |             |           |                     |                             |             |                             |              |                                  |                          | -        |
| Ô          |             |           |                     |                             |             |                             |              |                                  | Start backup             | .←       |

- Select the device and the option for backup (event database and license key).
- Click **[Browse]** and select the destination folder for the backup.
- Click [Start Backup]

#### 7.2 Restore

| $\equiv$     | ARGO CONFIG  |                   |  | Tuesday, June 11, 2024 08:00:38 F | M   💍 admin@desktop-6kbn55a   — 🗇 |
|--------------|--|-------------------|--|-----------------------------------|-----------------------------------|
| $\hat{\Box}$ | Backup and restore   |                   |  |                                   |                                   |
| B            |  | BACKUP RESTORE    | SCHEDULE BACKUP                                |                                   |                                   |
| 8            |  |                   |  |                                   |                                   |
| 4            | Selected backup file to restore:                                   |                   |  |                                   | Browse                            |
| de<br>B      | Backup file details:   |                   |  |                                   |                                   |
| B.,          | Date and time : 6/11/2024 7:59:57 PM                               |                   |  |                                   |                                   |
| de.          | Description :  |                   |  |                                   |                                   |
| and the      | Backup file content:   |                   |  | Device type                       | Filter 🗸                          |
|              | Select all available devices                                       |                   |  |                                   |                                   |
| 6            | SELECTION IP ADDRESS DEVICE NAME DEVICE TYPE MODEL NAM             |                   | DESTINATION ①                                  | STATUS                            |                                   |
| \<br>\       | 2 desktop-6kbn55a Recorder on DESKTOP-6KBN55A Recorder Recorder on | n DESKTOP-6KBN55A | ts database<br>eses Recorder on DESKTOP-6KBN55 | 5A V Connected                    |                                   |
|              |  |                   |  |                                   |                                   |
|              |  |                   |  |                                   |                                   |
|              |  |                   |  |                                   |                                   |
|              |  |                   |  |                                   |                                   |
|              |  |                   |  |                                   |                                   |
|              |  |                   |  |                                   |                                   |
| ь            |  |                   |  |                                   |                                   |
| -<br>        |  |                   |  |                                   |                                   |
| 4,5          |  |                   |  |                                   |                                   |
| 8            |  |                   |  |                                   |                                   |
| Ô            |  |                   |  |                                   | Start restore                     |

- Click [Browse] to select the backup file to restore
- Backup file content: select device and the option for backup (event database and license key).
- Click [Start Restore]



## 7.3 Scheduled backup

| $\equiv$     | ARGO CONFIG |               |                             |                    |           |               |                                     | C      | Tuesday, June 11, 2024 07:56:30 PM | ි admin@desktop-6kbn55a | – a × |
|--------------|-------------|---------------|-----------------------------|--------------------|-----------|---------------|-------------------------------------|--------|------------------------------------|-------------------------|-------|
| $\hat{\Box}$ | (1) Bac     | kup and re    | store                       |                    |           |               |                                     |        |                                    |                         |       |
| B            |             |               |                             |                    |           | BACKUP REST   | ORE SCHEDULE BACKUP                 |        |                                    |                         |       |
| 8            |             |               |                             |                    |           |               |                                     |        |                                    | Filter 🖓                |       |
|              |             |               |                             |                    |           |               |                                     |        |                                    |                         |       |
|              |             | IP ADDRESS    | DEVICE NAME                 | OPTIONS            | KEEP TIME | SCHEDULE TIME | ратн                                |        | STATUS                             |                         |       |
| α<br>Π       |             |               |                             |                    | + - Month | 1200 AN       |                                     |        | Disable                            |                         |       |
| 4            |             | 192.168.1.246 | Recorder on DESKTOP-6KBN55A |                    | + - Month |               |                                     |        | Disable                            |                         |       |
| ай,          |             |               |                             | Record videos      | + - Month |               |                                     |        | Disable                            |                         |       |
| æ            |             |               |                             |                    | + - Month | 1200 AN       |                                     |        | Disable                            |                         |       |
| ۵,           |             |               | Slave 1                     |                    | + - Month | 0 MA 201511   |                                     |        | Disable                            |                         |       |
| æ            |             |               |                             | Carl Record videos | 1+- Month | 3:14 PM 🕓     | \\XEON-TEST-PC\Backup_space\backup2 | Browse | Disable                            |                         |       |
|              |             |               |                             |                    | +- Month  | 11200 AM      |                                     |        | Disable                            |                         |       |
|              |             | 192.168.1.249 | Failover                    | Record videos      | + - Month | 1261PM (C)    |                                     |        | Disable                            |                         |       |
|              |             |               |                             |                    |           |               |                                     |        | Apsable                            |                         | ji -  |
|              |             |               |                             |                    |           |               |                                     |        | Username                           |                         |       |
|              |             |               |                             |                    |           |               |                                     |        | Password                           |                         |       |
|              |             |               |                             |                    |           |               |                                     |        |                                    |                         |       |
|              |             |               |                             |                    |           |               |                                     |        |                                    |                         |       |
|              |             |               |                             |                    |           |               |                                     |        |                                    |                         |       |
| xîk.         |             |               |                             |                    |           |               |                                     |        |                                    | OK Cancel               |       |
| 0            |             |               |                             |                    |           |               |                                     |        |                                    |                         |       |
| Ö            |             |               |                             |                    |           |               |                                     |        |                                    | Save Capcel             |       |
| ő            |             |               |                             |                    |           |               |                                     |        |                                    | Save Cancel             |       |

- Functions: schedule daily backups of video files during specified times. Backup files are stored in the designated path and retained for one month.



#### 8. LICENSE

| Licensing       |                             |     |           |          |
|-----------------|-----------------------------|-----|-----------|----------|
|                 |                             |     | Filter 🍸  |          |
|                 |                             |     |           |          |
| ADDRESS         | NAME                        | LIC | ENSE TYPE | STATUS   |
| desktop-6kbn55a | Recorder on DESKTOP-6KBN55A | Sit | e license | Licensed |

- Address: current IP address
- Name: server name
- License type: multiple channel license
- Status: license status

#### Info

| 0    |                 |     |      |
|------|-----------------|-----|------|
| Ŏ    | LICENSE SERIAL: | 2 1 | Сору |
| INFO |                 |     |      |

- License Serial: Displays the user's license key serial number

Note: If the license key has not been uploaded, the serial number will not be displayed here.

#### License management

|             | LICENSE MANAGEMENT<br>License server port               |        |            |
|-------------|---|--------|------------|
| MANAGEMEN I | 5153 Save Cancel Download license request file Download |        |            |
|             | Upload license file                                     | Browse | Unioad     |
|             |   | biowse | - olympacr |

- License server port: user's license key server port address
- Download license request file: click [**Download**] and send the user's license key request file to Spark.
- Upload license file: download and unzip the purchased license key file sent by Spark, click **[Browse]**, select the file and click **[Upload]**.


### Channel license

|         | SUMMARY OF INSTALLED LICENSES PER C     | HANNEL    |      |           |       |                 |        |
|---------|---|-----------|------|-----------|-------|-----------------|--------|
|         | LICENSE NAME                            | ТҮРЕ      | USED | AVAILABLE | TOTAL | EXPIRATION DATE | STATUS |
| LICENSE | ONVIF channels license                  | Permanent | 6    | 82        | 88    | Not applicable  | ОК     |
|         | Omnieye Advanced Series channel license | Permanent | 19   | 69        | 88    | Not applicable  | ОК     |
|         | Brand Series License                    | Trial     | 0    | 8         | 8     | 9/26/2024       | ОК     |

 Overview of the installed channel license keys: license name / type / used / available / total / expiration date / status

Note: certain functions cannot be used without adding a license.

## Integration licenses

|             | SUMMARY OF INSTALLED INTEGRATION LICENSES                |           |                 |        |
|-------------|--|-----------|-----------------|--------|
| INTEGRATION | LICENSE NAME   | ТҮРЕ      | EXPIRATION DATE | STATUS |
| LICENSES    | AI Service LPR Detection Integration License(B106244C)   | Permanent | Not applicable  | ОК     |
|             | I/O Modules activation license                           | Trial     | 7/22/2024       | ОК     |
|             | Argo integration license                                 | Trial     | 8/15/2024       | ОК     |
|             | AI Service Vehicle Detect Integration License(2B06274C)  | Trial     | 8/15/2024       | ОК     |
|             | Al Service Human Detection Integration License(2D06294C) | Trial     | 8/15/2024       | ОК     |
|             | Al Service Human Detection Integration License(B3061A4C) | Trial     | 8/15/2024       | ОК     |
|             | Al Service Human Detection Integration License(16041A2C) | Trial     | 8/15/2024       | ОК     |
|             | Al Service Human Detection Integration License(17041A2C) | Trial     | 8/15/2024       | ОК     |

 Overview of integrated service license keys: license name / type / expiration date / status

Note: certain functions cannot be used without adding a license.



### 9. LOG

Audit log

| $\equiv$     | ARGO CONFIG   |   | 🕚 Tuesday, June 11, 2024 07:49:15 PM 🛛 🖉 admin@desktop-6 | 5kbn55a 💷 🗇 🗡 |
|--------------|---|---|--|---------------|
| $\hat{\Box}$ | E Log   |   |  |               |
| ₽            |   | AUDIT LOG SYSTEM LOG DETAILED                               | LOG  |               |
| ප්           | LEVEL ALL V FROM 6/11/2024  |   |  |               |
|              | то 6/11/2024  |   |  |               |
| Ľ?           | Please choose at least a node from the list below:                |   |  |               |
|              | SELECT NODE ADDRESS STATUS  |   |  |               |
| da           | Recorder on DESKTOP-6KBN55A desktop-6kbn55a Online                |   |  |               |
| inito,       | Slave 1 localhost Online  |   |  |               |
| ¢            | Failover xeon-test-pc Online                                      |   |  |               |
|              | Search  |   |  | Delete        |
| a            | DATE LEVEL MESSAGE  |   | NODE   |               |
| -            | 2024-06-11 09:07:28.841 INFO User "admin" from xeon-test-pc - 192 | .168.2.249 started live streaming for stream "videostream 2 | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)            | î             |
|              | 2024-06-11 09:07:28.947 INFO User "admin" from xeon-test-pc - 192 | .168.2.249 started live streaming for stream "audiostream 2 | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)            |               |
|              | 2024-06-11 09:07:28.947 INFO User "admin" from xeon-test-pc - 192 | .168.2.249 started live streaming for stream "videostream 2 | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)            |               |
| -            | 2024-06-11 09:07:29.162 INFO User "admin" from xeon-test-pc - 192 | .168.2.249 started live streaming for stream "audiostream 2 | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)            |               |
|              | 2024-06-11 09:07:29.162 INFO User "admin" from xeon-test-pc - 192 | .168.2.249 started live streaming for stream "videostream 2 | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)            |               |
| -24-         | 2024-06-11 09:07:29.282 INFO User "admin" from xeon-test-pc - 192 | .168.2.249 started live streaming for stream "videostream 2 | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)            |               |
| 44           | 2024-06-11 09:07:29:282 INFO User "admin" from xeon-test-pc - 192 | .168.2.249 started live streaming for stream "audiostream 2 | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)            |               |
| 8            | 2024-06-11 09:07:29.389 INFO User "admin" from xeon-test-pc - 192 | .168.2.249 started live streaming for stream "audiostream 2 | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)            |               |
|              | 2024-06-11 09-07-29 389 INFO User "admin" from xeon-test-pc - 192 | 168.2.249 started live streaming for stream "videostream 2  | . Recorder on DESKTOP-6KRN55& (deskton-6khn55a)          |               |
| ů            |   |   |  | Export to CSV |

## A. Search Audit log

|              | Log                         |                |               |          |        |      |       | ÷  |    | Jun | e 20 | 024 |    | →  |        |
|--------------|-----------------------------|----------------|---------------|----------|--------|------|-------|----|----|-----|------|-----|----|----|--------|
|              |                             |                |               |          |        | AUDI | T LOG | Su | Мо | Tu  | We   | Th  | Fr | Sa | ED LOG |
| ſ            |                             |                |               |          |        |      |       |    |    |     |      |     |    | 1  |        |
| LEVEL        | ALL 🗸                       | FROM           | 6/11/2024     |          |        |      |       | 2  | 3  | 4   | 5    | 6   | 7  | 8  |        |
|              |                             |                |               | <u> </u> | 1      |      |       | 9  | 10 | 11  | 12   | 13  | 14 | 15 |        |
|              |                             | то             | 6/11/2024     | #        |        |      |       | 16 | 17 | 18  | 19   | 20  | 21 | 22 |        |
| Please of    | choose at least a node fror | n the list bel | ow:           |          |        |      |       | 23 | 24 | 25  | 26   | 27  | 28 | 29 |        |
| SELECT       | NODE                        |                | ADDRESS       |          | STATUS |      |       | 30 |    |     |      |     |    |    |        |
| $\checkmark$ | Recorder on DESKTOP-        | 6KBN55A        | desktop-6kbn5 | 5a       | Online |      |       |    |    |     |      |     |    |    |        |
| $\checkmark$ | Slave 1                     |                | localhost     |          | Online |      |       |    |    |     |      |     |    |    |        |
| $\checkmark$ | Failover                    |                | xeon-test-pc  |          | Online |      |       |    |    |     |      |     |    |    |        |
|              | Search                      |                |               |          |        |      |       |    |    |     |      |     |    |    |        |

- Level: select the level of data trace you want to search
   Level types: Full list / INFO / WARN / ERROR / SUCCESS
- Time range: Click on the [Calendar icon] to select the time range of the data trace
- Node: select the nodes where the data trace is located
   Note: select at least one node from the list
- Click [Search]



### B. Delete Audit log

| ß      | Log                        |               |                 |        |           |            |              |  |   |        |
|--------|----------------------------|---------------|-----------------|--------|-----------|------------|--------------|--|---|--------|
|        |                            |               |                 |        | AUDIT LOG | SYSTEM LOG | DETAILED LOG |  |   |        |
| LEVEL  | ALL 🗸                      | FROM          |                 | Î      |           |            |              |  |   |        |
| l      |                            | то            |                 |        |           |            |              |  |   |        |
| Please | choose at least a node fro | m the list be | Now:            | STATUS |           |            |              |  |   |        |
|        | Recorder on DESKTOP        | -6KBN55A      | desktop-6kbn55a | Online |           |            |              |  |   |        |
|        | Slave 1                    |               | localhost       | Online |           |            |              |  |   |        |
|        | Failover                   |               | xeon-test-pc    | Online |           |            |              |  |   |        |
|        | Search                     |               |                 |        |           |            |              |  | → | Delete |

- Level: select the level of data trace you want to delete

Level types: Full list / INFO / WARN / ERROR / SUCCESS

- Time range: Click on the **[Calendar icon]** to select the time range of the data trace
- Node: select the nodes where the data trace is located
   Note: select at least one node from the list
- Click [Delete]

## C. Export Audit log

| DATE                    | LEVEL | MESSAGE   | NODE  |
|-------------------------|-------|---|---|
| 2024-06-11 09:07:28.841 | INFO  | User "admin" from xeon-test-pc - 192.168.2.249 started live streaming for stream "videostream 2". | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)   |
| 2024-06-11 09:07:28.947 | INFO  | User "admin" from xeon-test-pc - 192.168.2.249 started live streaming for stream "audiostream 2". | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)   |
| 2024-06-11 09:07:28.947 | INFO  | User "admin" from xeon-test-pc - 192.168.2.249 started live streaming for stream "videostream 2". | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)   |
| 2024-06-11 09:07:29.162 | INFO  | User "admin" from xeon-test-pc - 192.168.2.249 started live streaming for stream "audiostream 2". | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)   |
| 2024-06-11 09:07:29.162 | INFO  | User "admin" from xeon-test-pc - 192.168.2.249 started live streaming for stream "videostream 2". | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)   |
| 2024-06-11 09:07:29.282 | INFO  | User "admin" from xeon-test-pc - 192.168.2.249 started live streaming for stream "videostream 2". | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)   |
| 2024-06-11 09:07:29.282 | INFO  | User "admin" from xeon-test-pc - 192.168.2.249 started live streaming for stream "audiostream 2". | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)   |
| 2024-06-11 09:07:29.389 | INFO  | User "admin" from xeon-test-pc - 192.168.2.249 started live streaming for stream "audiostream 2". | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)   |
| 2024-06-11 0907/29 289  | INFO  | User "admin" from xeon-test-pc - 192.168.2.249 started live streaming for stream "videostream 2". | Recorder on DFSKTOP-6KRN55A (deckton-6khn55a) * |

Export the search results of the Audit log.

- Click [Export CSV]



## 9.1 System log

| $\equiv$     | ARGO CONFIG   | 🕓 Tuesday, June 11, 2024 07:34:02 PM 🗏 🖉 admin@desktop-6kbn55a 🗌 — 🗇 🔿  |
|--------------|---|---|
| $\hat{\Box}$ | 🖻 Log   |   |
| Ŗ            |   | AUDIT LOG SYSTEM LOG DETAILED LOG   |
| 8            |   |   |
| 8            | LEVEL ALL V FROM 6/11/2024  |   |
| *            | <b>TO</b> 6/11/2024   |   |
| -            |   |   |
| Ľ            | Please choose at least a node from the list below:                |   |
|              | SELECT NODE ADDRESS STATUS  |   |
| ,            | Recorder on DESKTOP-6KBN55A desktop-6kbn55a Online                |   |
| Ш.           | Slave 1 localhost Online  |   |
| ¢Ŀ           | Failover xeon-test-pc Online                                      |   |
|              |   | Delete  |
| EΩ           |   |   |
| æ            | DATE LEVEL MESSAGE  | NODE  |
|              | 2024-06-11 00:00:00.351 INFO Status of event "systemevent_69d7459 | 98-a248-46e0-942a-b2934d65dc36" is now "inactive". Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)                    |
|              | 2024-06-11 00:00:00.353 INFO Status of event "systemevent_69d7459 | 98-a248-46e0-942a-b2934d65dc36" is now "active". Recorder on DESKTOP-6KBN55A (desktop-6kbn55a)                      |
|              | 2024-06-11 00:00:02.208 INFO Status of event "systemevent_81e6436 | 62-c6a9-41c6-833c-3d9685768767" is now "inactive". Slave 1 (localhost)  |
|              | 2024-06-11 00:00:02.218 INFO Status of event "systemevent_81e6436 | 62-c6a9-41c6-833c-3d9685768767" is now "active". Slave 1 (localhost)  |
|              | 2024-06-11 00:00:02.331 INFO Status of event "systemevent_f227156 | i1-b9fc-4b70-bfca-58c91573be1a" is now "inactive". Slave 1 (localhost)  |
|              | 2024-06-11 00:00:02.331 INFO Status of event "systemevent_f227156 | i1-b9fc-4b70-bfca-58c91573be1a" is now "active". Slave 1 (localhost)  |
| х <u>с</u> р | 2024-06-11 00:00:04.890 INFO Status of event "systemevent_0c2c403 | 37-3da4-4c75-90bd-23fe690483bd" is now "inactive". Slave 1 (localhost)  |
| ۵            | 2024-06-11 00:00:04.890 INFO Status of event "systemevent_0c2c403 | 37-3da4-4c75-90bd-23fe690483bd" is now "active". Slave 1 (localhost)  |
| ů            | 2024_06-11 00-00-05 488 INFO Status of event "systemevent 69d7459 | 98-a248-46e0-942a-b2934d65dc36* is now "inactive". Berninder on DECKTOD-EKRNISS& Idectron-Ekhnissa<br>Export to CSV |

## A. Search system log

| ARGO         | CONFIG          |           |               |              |     |       |    |    |    |      |     |     |    |    |
|--------------|-----------------|-----------|---------------|--------------|-----|-------|----|----|----|------|-----|-----|----|----|
|              | Log             |           |               |              |     |       |    | ÷  |    | Jun  | e 2 | 024 | Ļ  | ÷  |
|              |                 |           |               |              |     |       | _  | Su | Мо | Tu   | We  | Th  | Fr | Sa |
|              |                 |           |               |              |     |       |    |    |    |      |     | 30  |    | 1  |
| LEVEL        | ALL             | ~         | FROM          | 6/11/2024    |     | -     |    | 2  | 3  | 4    | 5   | 6   | 7  | 8  |
|              |                 |           |               |              | ,   |       |    | 9  | 10 | (11) | 12  | 13  | 14 | 15 |
|              |                 |           | то            | 6/11/2024    |     |       |    | 16 | 17 | 18   | 19  | 20  | 21 | 22 |
| Please of    | choose at least | a node fr | om the list b | elow:        |     |       |    | 23 | 24 | 25   | 26  | 27  | 28 | 29 |
|              | NODE            |           |               |              |     | CTATI | 16 | 30 |    |      |     |     |    |    |
| SELECT       | NODE            |           |               | ADDRESS      |     | STATU | 5  |    |    |      |     |     |    |    |
| $\checkmark$ | Recorder on     | DESKTO    | P-6KBN55A     | desktop-6kbn | 55a | Onlin | ie |    |    |      |     |     |    |    |
| $\checkmark$ | Slave 1         |           |               | localhost    |     | Onlin | ie |    |    |      |     |     |    |    |
| $\checkmark$ | Failover        |           |               | xeon-test-pc |     | Onlin | ie |    |    |      |     |     |    |    |
|              | Search          | -         |               |              |     |       |    |    |    |      |     |     |    |    |

- Level: select the level of the system log you want to search
   Level types: Full list / INFO / WARN / ERROR / SUCCESS
- Time range: Click on the **[Calendar icon]** to select the time range of the system log
- Node: select the nodes where the system log is located
   Note: select at least one node from the list
- Click [Search]



## B. Delete system log

| ARGO         | CONFIG                 |               |                 |           |           |            | С т          | uesday, June 11, 2024 07:17:22 PM | & admin@desktop-6kbn55 | i   -  | ō × |
|--------------|------------------------|---------------|-----------------|-----------|-----------|------------|--------------|-----------------------------------|------------------------|--------|-----|
| Ē            | Log                    |               |                 |           |           |            |              |                                   |                        |        |     |
|              |                        |               |                 |           | AUDIT LOG | SYSTEM LOG | DETAILED LOG |                                   |                        |        |     |
| LEVEL        | ALL 🗸                  | FROM          |                 | Ē         |           |            |              |                                   |                        |        |     |
|              |                        | то            |                 | Ē         |           |            |              |                                   |                        |        |     |
| Please       | choose at least a node | from the list | below:          |           |           |            |              |                                   |                        |        |     |
| SELECT       | NODE                   |               | ADDRESS         | STATUS    |           |            |              |                                   |                        |        |     |
|              | Recorder on DESKT      | OP-6KBN55     | A desktop-6kbn5 | 5a Online |           |            |              |                                   |                        |        |     |
| $\square$    | Slave 1                |               | localhost       | Online    |           |            |              |                                   |                        |        |     |
| $\checkmark$ | Failover               |               | xeon-test-pc    | Online    |           |            |              |                                   |                        |        |     |
|              | Search                 |               |                 |           |           |            |              |                                   | →                      | Delete |     |

- Level: select the level of the system log you want to delete
   Level types: Full list / INFO / WARN / ERROR / SUCCESS
- Time range: Click on the **[Calendar icon]** to select the time range of the system log
- Nodes: select the nodes where the system log is located
   Note: select at least one node from the list
- Click [Delete]

# C. Export system log

| DATE                    | LEVEL | MESSAGE   | NODE  |
|-------------------------|-------|---|---|
| 2024-06-11 00:00:00.351 | INFO  | Status of event "systemevent_69d74598-a248-46e0-942a-b2934d65dc36" is now "inactive". | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a) |
| 2024-06-11 00:00:00.353 | INFO  | Status of event "systemevent_69d74598-a248-46e0-942a-b2934d65dc36" is now "active".   | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a) |
| 2024-06-11 00:00:02.208 | INFO  | Status of event "systemevent_81e64362-c6a9-41c6-833c-3d9685768767" is now "inactive". | Slave 1 (localhost)                           |
| 2024-06-11 00:00:02.218 | INFO  | Status of event "systemevent_81e64362-c6a9-41c6-833c-3d9685768767" is now "active".   | Slave 1 (localhost)                           |
| 2024-06-11 00:00:02.331 | INFO  | Status of event "systemevent_f2271561-b9fc-4b70-bfca-58c91573be1a" is now "inactive". | Slave 1 (localhost)                           |
| 2024-06-11 00:00:02.331 | INFO  | Status of event "systemevent_f2271561-b9fc-4b70-bfca-58c91573be1a" is now "active".   | Slave 1 (localhost)                           |
| 2024-06-11 00:00:04.890 | INFO  | Status of event "systemevent_0c2c4037-3da4-4c75-90bd-23fe690483bd" is now "inactive". | Slave 1 (localhost)                           |
| 2024-06-11 00:00:04.890 | INFO  | Status of event "systemevent_0c2c4037-3da4-4c75-90bd-23fe690483bd" is now "active".   | Slave 1 (localhost)                           |
| 2024-06-11 00:00:05.488 | INFO  | Status of event "systemevent_69d74598-a248-46e0-942a-b2934d65dc36" is now "inactive". | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a) |
| 2024-06-11 00:00:05.488 | INFO  | Status of event "systemevent_69d74598-a248-46e0-942a-b2934d65dc36" is now "active".   | Recorder on DESKTOP-6KBN55A (desktop-6kbn55a) |
| 2024-06-11 00:00:07.359 | INFO  | Status of event "systemevent_81e64362-c6a9-41c6-833c-3d9685768767" is now "inactive". | Slave 1 (localhost)                           |
| 2024-06-11 00:00:07.359 | INFO  | Status of event "systemevent_81e64362-c6a9-41c6-833c-3d9685768767" is now "active".   | Slave 1 (localhost)                           |
| 2024-06-11 00:00:07.467 | INFO  | Status of event "systemevent_f2271561-b9fc-4b70-bfca-58c91573be1a" is now "inactive". | Slave 1 (localhost)                           |
| 2024-06-11 00:00:07.467 | INFO  | Status of event "systemevent_f2271561-b9fc-4b70-bfca-58c91573be1a" is now "active".   | Slave 1 (localhost)                           |
| 2024-06-11 00:00:10.035 | INFO  | Status of event "systemevent_0c2c4037-3da4-4c75-90bd-23fe690483bd" is now "inactive". | Slave 1 (localhost)                           |
| 2024-06-11 00:00:10.035 | INFO  | Status of event "systemevent_0c2c4037-3da4-4c75-90bd-23fe690483bd" is now "active".   | Slave 1 (localhost)                           |
|                         |       |   | Export to CSV                                 |

- Export the search results of the system log.
- Click [Export to CSV]



# 9.2 Detailed log

# A. Delete detailed log

| Ē      | Log                         |                 |        |           |            |              |  |
|--------|-----------------------------|-----------------|--------|-----------|------------|--------------|--|
|        |                             |                 |        | AUDIT LOG | SYSTEM LOG | DETAILED LOG |  |
|        |                             |                 |        |           |            |              |  |
| NODE   |                             |                 |        |           |            |              |  |
| SELECT | NODE                        | ADDRESS         | STATUS |           |            |              |  |
|        | Recorder on DESKTOP-6KBN55A | desktop-6kbn55a | Online |           |            |              |  |
|        | Slave 1                     | localhost       | Online |           |            |              |  |
|        | Failover                    | xeon-test-pc    | Online |           |            |              |  |
| DELETE | DETAILED LOGS               |                 |        |           |            |              |  |
|        | Delete 🔶                    |                 |        |           |            |              |  |

- Nodes: select the nodes where the detailed log is located
- Click [Delete]

## B. Export detailed log

| $\equiv$         | ARGO CONFIG                 |                 |        |           |            | 🕚 Tuesday, June 11, 2024 07:11:57 PM 🗏 👌 admin@desktop-6kbn55a 🗌 — | o × |
|------------------|-----------------------------|-----------------|--------|-----------|------------|--|-----|
| $\hat{\Box}$     | 🖾 Log                       |                 |        |           |            |  |     |
| <b>₽</b> ª       |                             |                 |        | AUDIT LOG | SYSTEM LOG | DETAILED LOG   |     |
| පී               | NODE                        |                 |        |           |            |  |     |
|                  | SELECT NODE                 | ADDRESS         | STATUS |           |            |  |     |
| ~\$ <del>,</del> | Recorder on DESKTOP-6KBN55A | desktop-6kbn55a | Online |           |            |  |     |
| 13               | Slave 1                     | localhost       | Online |           |            |  |     |
|                  | Failover                    | xeon-test-pc    | Online |           |            | Waite Web to Y   |     |
| ŝ                | DELETE DETAILED LOGS        |                 |        |           |            |  |     |
| <b>AD</b>        | Delete                      |                 |        |           |            |  |     |
| B                | EXPORT DETAILED LOGS        |                 |        |           |            | ■ 桌面<br>> ● OneDrive - Personal                                    |     |
|                  | Destination Path            |                 |        |           | <b>Y</b>   | > 🧟 Spark_SQA<br>> 🧏 本機  |     |
| ē                |                             |                 |        |           | Browse     | > 🐂 媒體種<br>> 🧼 網路  |     |
|                  |                             |                 |        |           |            | > EB 控制台<br>》 資源回收筒  |     |
|                  |                             |                 |        |           |            | > argo_client_0507 DebugView                                       |     |
|                  |                             |                 |        |           |            | Kevin_argo_issue   |     |
| -5-2-            |                             |                 |        |           |            | Spark ClientSdk  |     |
| ΣÇ.              |                             |                 |        |           |            | 英文/aconng画/s   |     |
| 8                |                             |                 |        |           |            |  |     |
| Ô                |                             |                 |        |           |            | 建立新資料夾(M) 確定 取消  |     |

- Nodes: select the nodes where the detailed log is located
- Click [Browse] to export folder
- Click **[OK]**



# 10. ARGO CLIENT

| $\equiv$ | ARGO CONFIG           | () Tuesday, June 11, 2024 07:10:46 PM | $ $ $\stackrel{0}{\otimes}$ admin@desktop-6kbn55a $ $ $ \square$ $	imes$ |
|----------|-----------------------|---------------------------------------|--|
|          | 🗋 Home                |                                       |  |
| 6°       | CONNECTED CAMERAS     |                                       | 25 / 28  |
| පී       | LICENSED CAMERAS      |                                       | 25 / 28  |
| **       | CONNECTED NVRS        |                                       | 0/0  |
| Ŕ        | CONNECTED I/O MODULES |                                       | 1/1  |
|          | CONNECTED RECORDERS   |                                       | 3/3  |
| ŝ        | CONNECTED CLIENTS     |                                       | 3  |
| ₼        | CONNECTED ARGO CONFIG |                                       | 1  |
| Ē,       | CONNECTED USERS       |                                       | 4  |
| ₿        |                       |                                       |  |
|          |                       |                                       |  |
| _        |                       |                                       |  |
| Þ        |                       |                                       |  |
| ų,       | <b>←</b>              |                                       |  |
| 8        |                       |                                       |  |
| Ő        |                       |                                       |  |

- Click the [Argo Client icon] on the bottom left
- Link from Argo Config to Argo Client



### **11. OPTIONS**

### 11.1 Language

| $\equiv$     | ARGO CONFIG           | $\rightarrow$ | Options               | $\rightarrow$ | < Language              |
|--------------|-----------------------|---------------|-----------------------|---------------|-------------------------|
| $\hat{\Box}$ | 🗋 Home                | ×.            | Language              | Cho           | ose language            |
| ₽°           | CONNECTED CAMERAS     | •∝<br> ₹      | User interface        | EN            | English (United States) |
| ප්           | LICENSED CAMERAS      | Lu<br>Re      | Dendering             |               | Italiano                |
| *            | CONNECTED NVRS        | 2             | kendering             | 繁體            | 1 繁體中文                  |
| r\$          | CONNECTED I/O MODULES | 0             | User interaction mode |               | Español                 |
| ~            |                       | Š             | Video Watermark       |               |                         |
|              | CONNELIED RELORDERS   |               | Advanced              |               |                         |
| شقر<br>-     | CONNECTED CLIENTS     |               |                       |               |                         |
| æ            | CONNECTED ARGO CONFIG |               |                       |               |                         |
| B            | CONNECTED USERS       |               |                       |               |                         |
| Ē            |                       |               |                       |               |                         |
|              |                       |               |                       |               |                         |
|              |                       |               |                       |               |                         |
|              |                       |               |                       |               |                         |
| ų,           | ÷                     |               |                       |               |                         |
| 8            |                       |               |                       |               |                         |
| Ő            |                       |               |                       |               |                         |

- Click the bottom left [**Options**] and select [Language].
- Language options: English / Italiano / 繁體中文 / Español

#### Interface

| $\equiv$   | ARGO CONFIG           | () Thursday, June 13, 2024 03:01:58 PM | 👌 admin@desktop-6kbn55a   - 🛛 🛛 🛛 |
|------------|-----------------------|--|-----------------------------------|
|            | ☐ Home                |  |                                   |
| ₽          | CONNECTED CAMERAS     |  | 23 / 29                           |
| 8          | LICENSED CAMERAS      |  | 23 / 29                           |
|            | CONNECTED NVRS        |  | 0/0                               |
| r?         | CONNECTED I/O MODULES |  | 1/1                               |
|            | CONNECTED RECORDERS   |  | 2/3                               |
| ай,        | CONNECTED CLIENTS     |  | 2                                 |
| ¢b         | CONNECTED ARGO CONFIG |  | 1                                 |
| e,         | CONNECTED USERS       |  | 3                                 |
|            |                       |  |                                   |
|            | <del>←</del>          |  |                                   |
| <b>Д</b> ¥ |                       |  |                                   |
| 8          |                       |  |                                   |
| Ô          |                       |  |                                   |

- Click the bottom left [**Options**] and select [**User interface**].



| Single login page        |   | Hos           | t localhost    |           |          |        |   |
|--------------------------|---|---------------|----------------|-----------|----------|--------|---|
| Single login page        |   | Туре          | e Spark Argo F | Recorder  |          |        |   |
| . M                      |   | Certificate   | spark.protoc   |           | icate 🐧  |        |   |
| spark 🖌                  |   | Username      | e admin        |           |          |        | V |
| Mombor of TTM TECHNOLOGY |   | Password      | ł              |           |          |        |   |
|                          |   |               |                |           |          |        |   |
|                          |   |               |                |           | <b>C</b> |        |   |
|                          |   |               |                |           | Conn     | lect   |   |
|                          |   | CONFIGURED DE | STINATIONS     |           |          |        |   |
| Quick login page         |   | Name          | Addres         | is        | Use      | ername |   |
|                          | - | localhost     | localho        | ost:20847 | ad       | min    |   |
| 💓 spark                  |   |               |                |           |          |        |   |
| Member of TTM TECHNOLOgy |   |               |                |           |          |        |   |
|                          |   |               |                |           |          |        |   |
|                          |   |               |                |           |          |        | ~ |
|                          |   | <u> </u>      |                |           |          | /      |   |

## Log in

\_

Single login page: password is required to log in.

Quick login page: log in without a password for direct connection.

# Drawing

| $\equiv$ | ARGO CONFIG           | $\rightarrow$ | Ontions               |   |
|----------|-----------------------|---------------|-----------------------|---|
|          | C Home                |               |                       | 2 s hendening   |
| ₽        | CONNECTED CAMERAS     | 244           | Language              | Analytics   |
| æ        | LICENSED CAMERAS      | 13            | User interface        | viewing a camera.   |
| ন্দ      |                       |               | Rendering             | On Show analytics metadata configuration areas                |
| to Alla  | CURNEL ED NVKS        |               | User interaction mode | On 💿  |
| LYA.     | CONNECTED I/O MODULES | S             | Video Watermark       | Audio   |
|          | CONNECTED RECORDERS   | 龗             | Advanced              | Enable by default the audio streams when<br>viewing a camera. |
| ŝ        | CONNECTED CLIENTS     |               |                       | On 💽  |
| යා       | CONNECTED ARGO CONFIG |               |                       | Live stream presentation buffering                            |
| B        | CONNECTED LISTERS     |               |                       | 150 + -   |
|          |                       |               |                       | Maximum buffering (ms.) - [100 ~ 15000]                       |
| 뗼        |                       |               |                       | 400 +-  |
|          |                       |               |                       |   |
|          |                       |               |                       |   |
|          |                       |               |                       |   |
|          |                       |               |                       |   |
|          |                       |               |                       |   |
|          |                       |               |                       |   |
|          |                       |               |                       |   |
| Þ        |                       |               |                       |   |
| ų.       |                       |               |                       |   |
| 8        |                       |               |                       |   |
| 8        |                       |               |                       |   |
| U        |                       |               |                       |   |

- Click the bottom left [**Options**] and select [**Rendering**].





- Analytics

Display the analytics metadata steams when viewing a camera: the monitoring screen will display a red frame on detected object.

- Show analytics metadata configuration areas: the monitoring screen will display a red frame on the detection zone.
- Audio: start audio streaming when viewing the camera: sound will be available when viewing the camera.

Live stream presentation buffering: edit minimum and maximum buffering time.
 Minimum buffer time range: 0~10000 milliseconds

Maximum buffer time range:100~15000 milliseconds

Note: for effective video analytics, pre-configuration on the camera's web interface is required.



# **11.2** User interaction mode

| ≡        | ARGO CONFIG           | $\rightarrow$ | Options         | $\rightarrow$ < User interaction mode         |
|----------|-----------------------|---------------|-----------------|---|
|          | ☐ Home                | Ť.            | language        |   |
| B        | CONNECTED CAMERAS     |               |                 | Hotkeys<br>Hotkeys enabled                    |
| ප්       | LICENSED CAMERAS      | L)<br>R       | Des dering      | Off •   |
| 14<br>14 | CONNECTED NVRS        | r<br>t        | Kendering       | F2 - Home<br>F3 - Devices                     |
| r?       | CONNECTED I/O MODULES | ں<br>پچ       | Video Watermark | F4 - Users Management<br>F5 - Health Doctor   |
|          | CONNECTED RECORDERS   |               | Advanced        | F6 - Events and alarms<br>F7 - Access control |
| 藏        | CONNECTED CLIENTS     | صيت           |                 | F8 - Analytics data collection                |
| ₼        | CONNECTED ARGO CONFIG |               |                 | F10 - Licenses                                |
| Ē,       | CONNECTED USERS       |               |                 | F11 - Log<br>F12 - Start Argo Client          |
| ß        |                       |               |                 |   |
|          |                       |               |                 |   |
|          |                       |               |                 |   |
|          |                       |               |                 |   |
| ų,       | <del>←</del>          |               |                 |   |
| 8        |                       |               |                 |   |
| ő        |                       |               |                 |   |

- Click the bottom left **[Options]** and select **[user interaction mode]**.

|               | heaveys. When chasted, asers can ase sciow heaveys. |     |                           |  |  |  |  |  |  |
|---------------|---|-----|---------------------------|--|--|--|--|--|--|
| F2 Home       |   | F8  | Analytics data collection |  |  |  |  |  |  |
| F3 Devices F9 |   | F9  | Backup and restore        |  |  |  |  |  |  |
| F4            | User management                                     | F10 | Licenses                  |  |  |  |  |  |  |
| F5            | Health doctor                                       | F11 | Log                       |  |  |  |  |  |  |
| F6            | Event and alarm                                     | F12 | Start Argo Client         |  |  |  |  |  |  |
| F7            | Access Control                                      |     |                           |  |  |  |  |  |  |

## - Hotkeys: when enabled, users can use below hotkeys.



#### 11.3 Watermark

| ≡            | ARGO CONFIG           | $\rightarrow$ | Options               | → 〈 Video Watermark         |
|--------------|-----------------------|---------------|-----------------------|-----------------------------|
| Û            | ☐ Home                | X             | Language              |                             |
| 6ª           | CONNECTED CAMERAS     | R             | User interface        | Watermark Content           |
| පී           | LICENSED CAMERAS      |               | Rendering             | User name                   |
|              | CONNECTED NVRS        | ß             | User interaction mode | On  Customized Test Content |
| t\$          | CONNECTED I/O MODULES | -<br>         | Video Watermark       | On O                        |
|              | CONNECTED RECORDERS   | 32            | Advanced              | Wetermark Direles Cathing   |
| ŝ            | CONNECTED CLIENTS     |               |                       | Opacity [10 ~ 100]          |
| ₫            | CONNECTED ARGO CONFIG |               |                       | Size [10 ~ 100] 50<br>Color |
| e,           | CONNECTED USERS       |               |                       | White V                     |
| ø            |                       |               |                       | Multiple Watermark Display  |
| -            |                       |               |                       | Simulation Image            |
| ►<br>**<br>8 | <del>←</del>          |               |                       | admin                       |

- Click the bottom left [Options] and select [Video Watermark].
- Watermark content: edit the username and custom content.
   Username: when enabled, the watermark will display the username.
   Customized Test content: when enabled, users can custom watermark content.
- Watermark Display Setting:

Edit the text opacity, text size, text color, single watermark display position, or multiple watermarks filling the image.

Opacity: edit the transparency of the watermark text, ranging from 10 to 100.

Size: edit the size of the watermark text, ranging from 10 to 100.

Color: edit the watermark text color, choosing between white or black.

Single watermark display: display a single watermark at the specified position.

Position options: top left / top center / top right / center left / center / center right / bottom left / bottom center / bottom right (9 positions in total)

Multiple watermarks Display: display watermarks at all nine positions, filling the image with watermark content.

Simulation Image: preview the watermark settings.



#### 11.4 Advanced

|                     | ARGO CONFIG                              | $\rightarrow$ | Options                    | → < Advanced   |
|---------------------|--|---------------|----------------------------|--|
| E"                  | CONNECTED CAMERAS                        | ×.            | Language<br>User interface | Live streams behaviour<br>Specify the behaviour to use when handling live<br>video streams   |
| 80<br>1             | LICENSED CAMERAS                         | 8             | Rendering                  | Auto   Auto Auto |
| ď                   | CONNECTED I/O MODULES                    | ୍ଦ<br>କ       | Video Watermark            | On Con Con Con Con Con Con Con Con Con Co  |
| ₹<br>€              | CONNECTED RECORDERS<br>CONNECTED CLIENTS |               | Advanced                   | Export Log   |
| ₼                   | CONNECTED ARGO CONFIG                    |               |                            |  |
| 111<br>Color        | CONNECTED USERS                          |               |                            |  |
| <mark>ک</mark><br>ک | ←  |               |                            |  |
| 8<br>ñ              |  |               |                            |  |

- Click the bottom left **[Options]** and select **[Advanced]**.
- Real-time streaming behavior

Live streams behavior: can be set to auto or highest resolution

- A. Auto: sets the camera to use the lowest available resolution (excluding thumbnail streams) by default.
- B. Highest resolution: sets the camera to use the highest available resolution (excluding thumbnail streams) by default.
- User confirmation on logout and close
   On: a confirmation prompt will be displayed when logging out or closing the program.
- Export log: Click [Export logs] to export complete system program log

Note: Specifying real-time streaming behavior to Auto typically results in a lower resolution to reduce computer power consumption.



#### 12. USER

#### 12.1 Change password

|     | i Change User Password |                        |  |  |  |  |  |  |  |
|-----|------------------------|------------------------|--|--|--|--|--|--|--|
|     |                        | Username admin         |  |  |  |  |  |  |  |
|     | Change password        | Old password           |  |  |  |  |  |  |  |
| ĮČ. | Logout                 | New password           |  |  |  |  |  |  |  |
|     |                        | Confirm password       |  |  |  |  |  |  |  |
| 8   | Close                  | Change password Cancel |  |  |  |  |  |  |  |
| Ő   |                        |                        |  |  |  |  |  |  |  |

- Click on [User] then click [change password]. After changing password, click [change password] to confirm.
- Username: usernames cannot be modified.
- Old password: insert username old password
- New password: insert new password
- Confirm password: retype the password

#### 12.2 Logout/Close

- Logout: click **[logout]** to logout of Argo Config and return to the login page.
- Close: click [close] to close Argo Config.



## 13. **ABOUT**

| $\equiv$ | ARGO CONFIG           | () Tuesday   | y, June 11, 2024 05:53:50 PM   🖉 admin@desktop-6kbn55a   — 🛛 🔿 |
|----------|-----------------------|--|--|
|          | 🗋 Home                |  |  |
| ₽        | CONNECTED CAMERAS     |  | 24 / 28  |
| 8        | LICENSED CAMERAS      |  | 24 / 28  |
| <b>*</b> | CONNECTED NVRS        | Argo config  | 0/0  |
| Ľ.       | CONNECTED I/O MODULES | 2024.1.2_20240607  | 1/1  |
|          | CONNECTED RECORDERS   |  | 2/3  |
| ŝ        | CONNECTED CLIENTS     | Argo Config 2024.1.2_20240607<br>File Version: 2024.6.7.1587 (64bit) |  |
| ්ත       | CONNECTED ARGO CONFIG | Build 1853c984e858d6391373cd9a59c63f374f0c30b3                       |  |
| Ē,       | CONNECTED USERS       |  |  |
| ١        |                       |  |  |
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|          |                       | All rights reserved<br>www.spark-security.com                        |  |
|          |                       | Copyright  |  |
| ţ,       |                       |  |  |
| 8        |                       |  |  |
| Ő        |                       |  |  |

- Click on the bottom left [i] to browse the system program version.
- Click www.spark-security.com to access Spark official website
- Click [Copyright] ] to browse detailed copyright information.



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Argo Client