



## CIAS Integration with Avigilon Unity Video User Guide

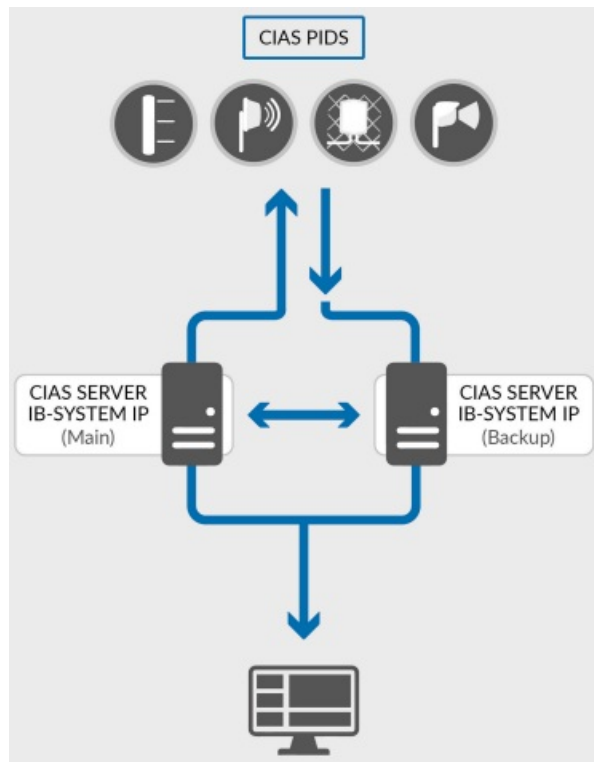
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### Integration Architecture Design



### Introduction of Avigilon Control Center (ACC)

IB-System IP is integrated with AVIGILON CONTROL CENTER (ACC) from version 7.0 thanks to the API REST (RESTful).

In order to transmit event messages to ACC, the IB-SYSTEM IP will first send the events to the MIDDLEWARE running on the same server that is running IB-SYSTEM IP.

### Integration Requirements

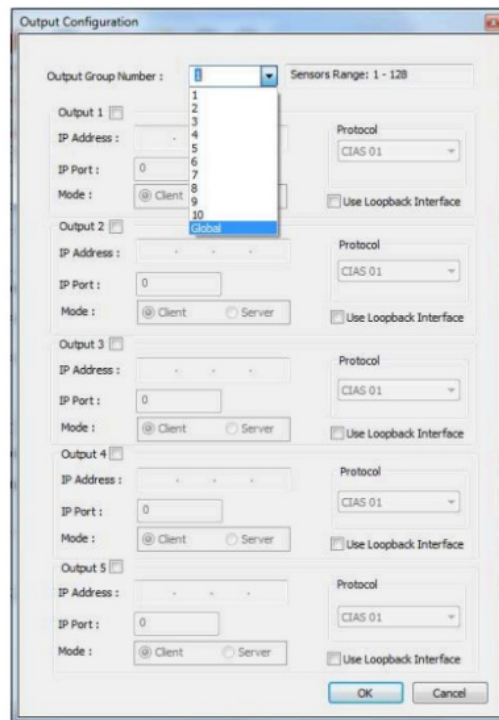
- License Requirements: PLUGIN-AVIGILON
- Supported Avigilon Versions and Editions: Avigilon Control Center 7.14.16.12; Avigilon Unity Video 8
- Any Other Required Hardware/Devices: CIAS sensors (Ermo 482X3pro, Micro-Ray, Murena Plus, Sioux MemsPro2)
- Minimum System Requirements: Install IB-System IP over a physical server not over a virtual machine
- Operating System version: Windows XP SP3; Windows 7 SP1; Windows 8, 10, 11; Windows Server 2012; 2016; 2019; 2022
- Processor: Processor 2.4 GHz; 2 GB RAM
- Network Interface: NET.FRAMEWORK 3.5; 1x 10/100/1000 Mbps network card
- Available Hard Disk: 2500 MB free space on hard disk

### Installation

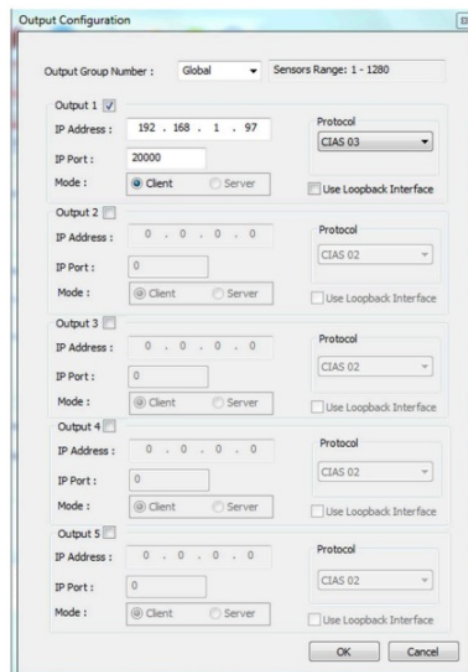
CIAS IB-System-IP is an autorun system with dedicated autorun setup, both for main and back-up.

#### Configuring IB-System Ip Outputs

To do this, a GLOBAL output must be configured from the drop-down menu in the OUTPUT CONFIGURATION window:



the following window will appear:



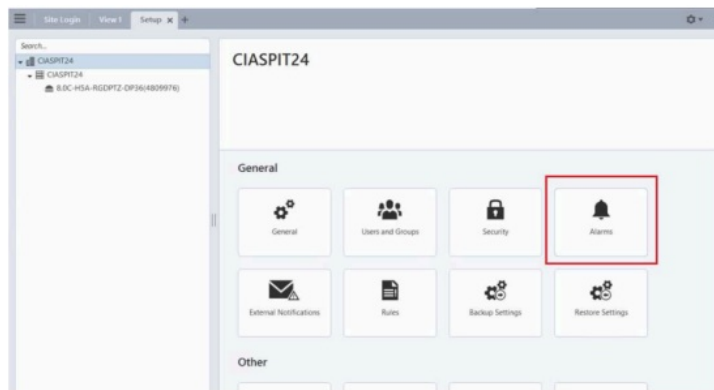
For each output intended for use, choose CIAS02 protocol, and set the following parameters:

- IP ADDRESS: IB-SYSTEM IP server IP-ADDRESS
- IP PORT: MIDDLEWARE IP PORT (for example 20000)
- MODE: CLIENT
- USE LOOPBACK INTERFACE: no FLAG

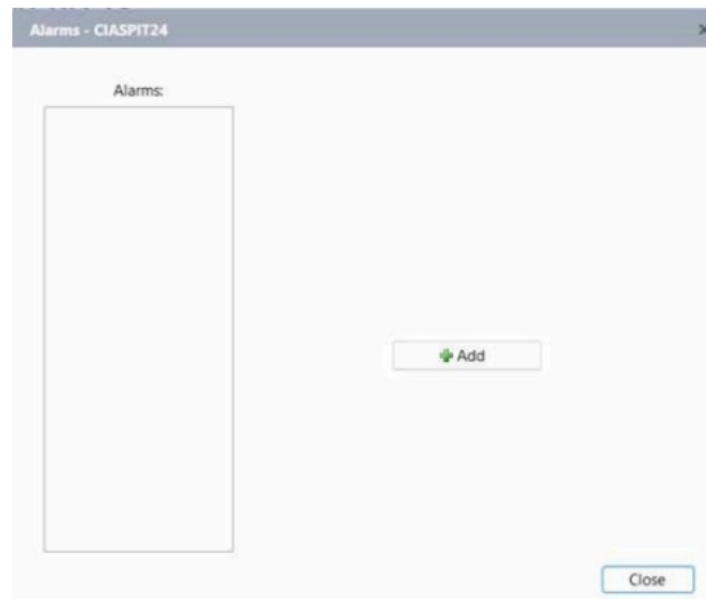
### Configuring Avigilon ACC

To use ALARM in Avigilon, configuration is required.

To configure ALARM in Avigilon open SITE GENERAL SETTINGS and open ALARMS:



the following window will appear:



push “+ ADD” to create NEW ALARM.

Select “External Software Event” as alarm trigger source:



push Next and select a device to link the alarm:

Add Alarm

Select Linked Devices

Select the device(s) to link to this alarm:

Search...

CIASPLIT24

CIASPLIT24

☒ 8.0C-H5A-RGDPITZ-DP36(4809976)

Pre-Alarm Record Time: 5 seconds

Recording Duration: 1 min 0 sec

☒ View linked devices when alarm is triggered

Previous

Next

Cancel

Setting the flag on “View linked devices when alarm is triggered” as above, the dedicated camera streaming will be displayed.

Press **Next ADD RECIPIENTS** to assign the event to a user:

Push NEXT to proceed and select necessary steps/actions to acknowledge alarm:

Add Alarm

Select Alarm Acknowledgment Action

☐ Require a comment when acknowledging alarm

☐ Activate selected digital output(s) on alarm acknowledgment

Search...

CRASP124

CRASP124

3 DC VSA-RGDPTZ-PP36(4000970)

☐ Power Supply

☐ Input/Output

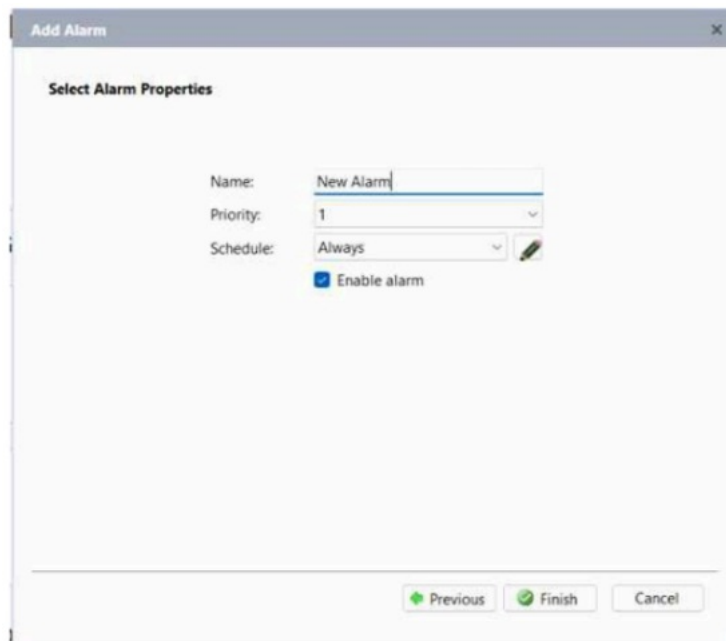
☐ Require user confirmation before activating digital output(s)

Previous

Next

Cancel

Push NEXT to proceed to Alarm properties ALARM NAME and definition, to define ALARM PRIORITY level and ALARM ENABLING as is necessary:




**Add Alarm**

Select Alarm Properties

Name:

Priority:

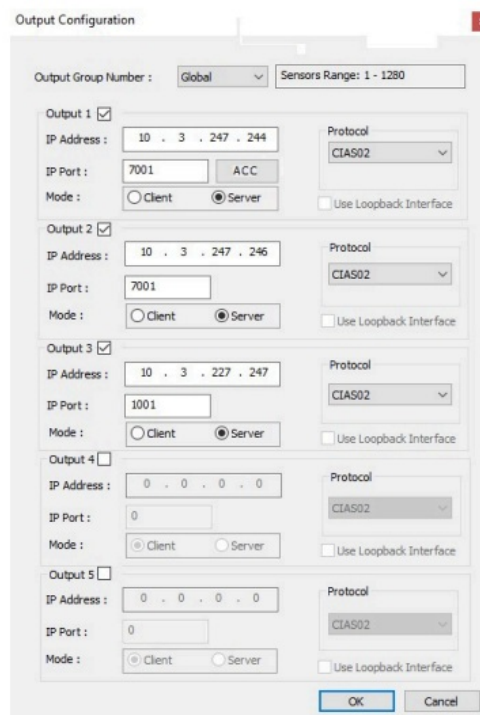
Schedule:  

☒ Enable alarm

## Configuring Middleware

MIDDLEWARE requires configuration in order to receive events from IB-SYSTEM IP and to send those events to ACC.

To do this, open the interface, click on ACC button in OUTPUT CONFIGURATION panel in IBSYSTEM IP:



**Output Configuration**

Output Group Number:  Sensors Range: 1 - 1280

Output 1 ☒

IP Address:  Protocol:

IP Port:  ACC

Mode: ☐ Client ☒ Server ☐ Use Loopback Interface

Output 2 ☒

IP Address:  Protocol:

IP Port:

Mode: ☐ Client ☒ Server ☐ Use Loopback Interface

Output 3 ☒

IP Address:  Protocol:

IP Port:

Mode: ☐ Client ☒ Server ☐ Use Loopback Interface

Output 4 ☐

IP Address:  Protocol:

IP Port:

Mode: ☒ Client ☐ Server ☐ Use Loopback Interface

Output 5 ☐

IP Address:  Protocol:

IP Port:

Mode: ☒ Client ☐ Server ☐ Use Loopback Interface

the following window will appear:

**CIA5 to Avigilon Integration Settings**

**CIA5 zone, Avigilon alarm and CIA5 event types Mapping**

| Gas Zone | Avigilon Alarm ID | Event type |
|----------|-------------------|------------|
| 0        | NameZ5 ▾          | Alarm.     |
| 1        | NameZ5 ▾          | Alarm.     |
| 2        | - ▾               |            |
| 3        | NameZ5 ▾          | Alarm.     |
| 4        | NameZ6 ▾          | Alarm.     |
| 5        | NameZ7 ▾          | Alarm.     |
| 6        | NameZ8            | Alarm.     |

Add row Remove row

**Pripoint Mapping Settings**

| ID | Gas Zone | Pripoint start | Pripoint end | Camera                   | Preset |
|----|----------|----------------|--------------|--------------------------|--------|
| 0  | 1        | 0              | 20           | B.OC.HSA.RGDP.TZ.OP... ▾ | 1      |
| 1  | 1        | 21             | 40           | B.OC.HSA.RGDP.TZ.OP... ▾ | 2      |
| 2  | 1        | 41             | 60           | B.OC.HSA.RGDP.TZ.OP... ▾ | 3      |
| 3  | 1        | 61             | 85           | B.OC.HSA.RGDP.TZ.OP... ▾ | 4      |

Add row Remove row

Save Exit

In the column “CIAS zone, Avigilon alarm and CIAS event type Mapping” table are represented:

- CIAS ZONE: IB-SYSTEM IP sensors
- AVIGILON ALARM ID: ALARM events configured in ACC
- EVENT TYPE: IB-SYSTEM IP events type to be used to generate events in ACC

In the column called “Port Mapping” table, are:

- ID: progressive number
- CIAS ZONE: IB-SYSTEM IP sensor number (shall represent a SIOUX ZONE)
- PINPOINT START – P INPOINT END: indicate meters from the beginning of the SIOUX ZONE
- (START – END) used to generate an event thanks to the SIOUX PIN POINT
- .CAMERA: camera to which the events shall be sent
- PRESET: preset for the camera position in case of event

In SETTINGS TAB set IB-SYSTEM IP Settings / Service Behaviour = server:

**CIA5 to Avigilon Integration Settings**

**CIA5 zone, Avigilon alarm and CIA5 event types Mapping**

| Cia5 Zone | Avigilon Alarm ID | Event type |
|-----------|-------------------|------------|
| 0         | AlarmZ5           | Alam.      |
| 1         | AlarmZ5           | Alam.      |
| 2         | -                 |            |
| 3         | AlarmZ5           | Alam.      |
| 4         | AlarmZ5           | Alam.      |
| 5         | AlarmZ7           | Alam.      |
| 6         | AlarmZ8           | Alam.      |

Add row Remove row

**Pnpoint Mapping [Settings]**

**Avigilon settings**

IP address  
172.16.1.112

Port  
8443

Username  
administrator

Password  
\*\*\*\*\*

Test connection

**IB-System IP Settings**

**Service behaviour**

☐ client ☒ server

**Connection parameters**

Listening port  
6001

## Represented are:

- IP\_ADDRESS: AVIGILON Server IP ADDRESS
- PORT: AVIGILON Server Output Channel IP PORT = 8443
- USERNAME: AVIGILON Server ADMINISTRATOR username
- PASSWORD: AVIGILON Server ADMINISTRATOR password
- IB-SYSTEM IP SETTINGS:
- SERVICE BEHAVIOUR = SERVER

Connection parameters

LISTENING PORT: communication port configured in GLOBAL OUTPUT panel of IBSYSTEM IP

Click SAVE to store the configuration and restart the communication service.

Click EXIT to close the configuration interface.

**Note:** if a BACKUP SERVER is present, do the same configuration steps in the BACKUP SERVER

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## Documents / Resources

|   |   |
|---|---|
|  | <a href="#">CIAS Integration with Avigilon Unity Video</a> [pdf] User Guide<br>Integration with Avigilon Unity Video, with Avigilon Unity Video, Avigilon Unity Video, Unity Video, Video |
|---|---|

## References

-  [Symantec Enterprise Blogs](#)
-  [Home | CIAS Elettronica](#)
-  [Home | CIAS Elettronica](#)
-  [Protezioni e allarmi perimetrali | CIAS ELETTRONICA](#)
- [User Manual](#)

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