Avigilon Control Center™
System Integration Guide
for IPVideo Corporation HALO IOT Smart Sensor
# Table of Contents

- **Introduction** .......................................................... 1
- Requirements ............................................................ 1
- For More Information ................................................... 1
- **Installation** .......................................................... 2
  - Sensors ............................................................... 2
  - Servers .............................................................. 2
  - Client ................................................................. 2
- **HALO Configuration** .................................................. 3
- **ACC Configuration** .................................................... 4
- **Using the Integration** ................................................... 5
Introduction

The Avigilon Control Center (ACC) system integration with the IPVideo Corporation HALO IOT Smart Sensor allows users to view and search for sensor detection events in ACC. Users can create rules and alarms around these sensor detections to alert operators or automate actions.

Requirements

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avigilon</td>
<td>ACC Server software 7.8 or later</td>
</tr>
<tr>
<td>Avigilon</td>
<td>ACC Client software 7.8 or later</td>
</tr>
<tr>
<td>Avigilon</td>
<td>ACC 7 POS license ACC7-POS-STR — 1 channel per HALO IOT Smart Sensor device</td>
</tr>
<tr>
<td>Avigilon</td>
<td>ACC 7 Standard or Enterprise edition license</td>
</tr>
<tr>
<td>IPVideo Corporation</td>
<td>HALO IOT Smart Sensors</td>
</tr>
<tr>
<td>IPVideo Corporation</td>
<td>HALO Setup Tool.exe</td>
</tr>
</tbody>
</table>

Make sure the ACC Server and Client meet the system requirements listed on avigilon.com/products/acc/system-requirements.

For More Information

For more information about the procedures outlined in this guide, refer to the following specific software documentation:

- Avigilon Control Center Client User Guide
- Avigilon Control Center Server User Guide
- HALO Installation Guide
- HALO Quick Start Guide
Installation

Sensors

- Install the HALO sensors according to the *HALO Installation Guide*.
- Configure the sensor and detection events according to the *HALO Quick Start Guide*.

Servers

- Install the ACC Server software on servers in your network.

Client

- *Copy the HALO Setup Tool.exe onto the desktop.*
- Install the ACC Client software on all client workstations.
HALO Configuration

After the HALO sensor events are configured, configure the Video Management System (VMS) Settings to send the events to the ACC system.

1. In the HALO sensor web interface, go to the **Notifications** tab.
2. Under VMS Settings, enter the following:
   - **Set String** — The text sent to the ACC server when an event is detected.
   - **Reset String** — The text sent to the ACC server when an event is no longer detected.
   - **Address** — The IP Address of the ACC server.
   - **Port** — The port number of the ACC server that is connected to the HALO sensor.
   - **Protocol** — Select TCP.
3. Click **Save**.

You will need the **Set String**, **Reset String**, and **Port** when configuring the ACC system.
ACC Configuration

After the HALO sensor been installed, configure the ACC software for the integration.

1. In the New Task menu, click Site Setup.
2. Select your server, then click POS Transactions.
3. Click Add.
4. Complete the following, then click Next:
   - **Hostname/IP Address**: The IP Address of the HALO sensor.
   - **Port**: The port number of the ACC server that is connected to the HALO sensor.
   - **Connection Type**: Select Server.
5. Select the Data Format for the source. This format will be used to recognize and capture the HALO sensor’s output.
   a. Click Add.
   b. Edit the properties of your new format.
      - **Name**: The name displayed under your list of formats.
      - **Description**: A short explanation of the data and device.
      - **Transaction Start Text**: The HALO sensor Set String.
      - **Transaction End Text**: The HALO sensor Reset String.
      - **Encoding**: The encoding used by the HALO sensor.
   c. Use Capture Data to receive raw data. Verify that the event strings are being sent correctly.
   d. Click Add Filter... to customize how the information is displayed in the ACC system. Default formats create line breaks and remove excess spacing.
      - **Text to Match**: Enter the text expected to appear from the device, and choose whether to make your search case-sensitive or required to match the entire word.
      - **Action to Take**: Decide whether to remove or replace the detected text.
   e. Click OK to add the filter.
   f. Click OK to save the data format.
6. Click Next, then click Next again.
7. Select the cameras or devices to link directly to the HALO sensor and set the following, then click Next:
   1. **Pre-Transaction Record Time**: How long to record before a transaction.
   2. **Post-Transaction Record Time**: How long to record after a transaction.
8. Enter a name and description for the transaction source. Click Finish.

**Note**: You must create a new POS Transaction Source for each event for each device.
Using the Integration

Now that the integration has been installed and configured, you can use the ACC system to create rules and alarms to monitor video detected by cameras that are connected to the HALO sensor.

1. In the New Task menu, click Site Setup.
2. Click the site name, then click Rules.
3. Click Add.
4. Select POS Transaction Events > POS transaction started or POS transaction ended checkbox, then click any transaction source.
5. Select Any of the following transaction sources: and select a transaction source configured in the previous step. Click OK, then Next.
6. Select any actions to respond to the event. Click Next.
7. Add a Rule Name: and Rule Description: The name should be unique throughout the ACC site.
8. Assign a schedule.
9. Click Finish.