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## VSS INTEGRATION GUIDE

**VIVOTEK**



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Contents

INTRODUCTION ..... 2

HALO SMART SENSOR – ENABLE RTSP STREAM ..... 3

HALO SMART SENSOR – ACTIONS ..... 4

HALO SMART SENSOR – INTEGRATIONS ..... 5

VSS CLIENT – LOGIN ..... 6

VSS CLIENT – SETTINGS MENU ..... 7

VSS CLIENT – VISUALIZE HALO SMART SENSOR ..... 11

VSS CLIENT – ADD ALARM ..... 12

VSS CLIENT – ALARM NOTIFICATIONS ..... 17

## INTRODUCTION

The HALO Smart Sensor can be integrated into Vivotek's VSS Video Management Software using the RTSP output from the HALO device and the RTSP support of VSS. This allows operators to visualize and record the real-time data from the HALO Smart Sensor, as though it were a typical IP Camera.

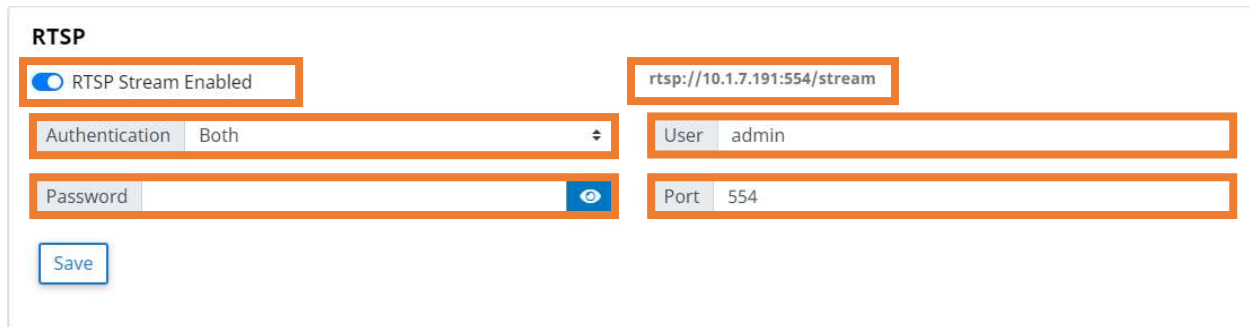
HALO Smart Sensor can also be programmed to transmit messages via TCP/IP to VSS to enable Alarm Notifications

**Note : This integration was tested using VSS 1.0.0 and HALO Firmware version 2.82**

## HALO SMART SENSOR – ENABLE RTSP STREAM

To capture the Stream URL needed to connect VSS to HALO, simply navigate to the HALO Smart Sensor with a Web Browser and click on the **Integration** Icon in the bottom navigation bar.

Scroll down to the RTSP settings.



The screenshot shows the RTSP settings page. The title 'RTSP' is at the top left. Below it, a toggle switch for 'RTSP Stream Enabled' is turned on. To the right, the 'Stream URL' is displayed as 'rtsp://10.1.7.191:554/stream'. Below the toggle, there are two rows of settings. The first row has a dropdown menu for 'Authentication' set to 'Both' and a text field for 'User' with the value 'admin'. The second row has a text field for 'Password' (with an eye icon for visibility) and a text field for 'Port' with the value '554'. At the bottom left, there is a 'Save' button.

- 1) **Highlight** and **Copy** the **Stream URL** displayed at the top of the settings area.
- 2) Click the **RTSP Stream Enabled** switch
- 3) Set **Authentication** to **Both**
- 4) Enter a **Username** and **Password**
- 5) Enter the RTSP **Port** (Default is 554)
- 6) Click **Save** to save RTSP Image Settings

## HALO SMART SENSOR – ACTIONS

Click on the **Actions Icon** in the bottom navigation bar.

### Actions

Event Identifier	Email		Primary Integration	
	Set	Reset	Set	Reset
Aggression	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AQI	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CO2eq	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Gunshot	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Health_Index	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Help	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Check the **Messaging Set** checkboxes for each of the **Event Identifiers**.

Scroll down and click the **Save** button to save settings.

## HALO SMART SENSOR – INTEGRATIONS

Click on the **Integrations** Icon in the bottom navigation bar.

### Integration ×

#### External Messaging

Protocol ☒ TCP ☐ HTTP

Repeat Holdoff 5 sec

Set String

halo.event.%EID%

☒ On ☐ Off

Reset String

halo.reset.%EID%

☐ On ☒ Off

**Above you can use:**  
%NAME% - device name  
%IP% - ip address  
%MAC% - mac address  
%EID% - event id  
%SOURCE% - data source

%THR% - event threshold  
%VAL% - sensor value  
%DATE% - local date of event  
%TIME% - local time of event  
%PSWD% - password  
%USER% - user

%FWVER% - firmware version  
\\ - 1 back slash  
\\n - new line  
\\r - carriage return  
\\u#### - hex char code  
etc.

Address 172.16.10.36

Port 3444

Save

Status: OK

1. Set protocol to **TCP**
2. Enter “**halo.event.%EID%**” for the Set String and Check the **On** radio button to enable  
(Do not include Quotations)
3. Enter “**halo.reset.%EID%**” for the Set String and Check the **On** radio button to enable  
(Do not include Quotations)
4. Enter the **IP Address** of the **VSS** Server in the IP Address field
5. Enter **3444** in the Port field.
6. Click the **Save** button.

## VSS CLIENT – LOGIN

Login to the VSS Client as an Administrator



The image shows the VSS Client login interface. At the top, there is a logo consisting of a blue 'V' inside a white rounded square, followed by the text 'VSS' in a large, white, sans-serif font. Below the logo, the text 'VAST Security Station' is displayed in a bold, white, sans-serif font. Underneath this, there are three radio buttons for selecting the login method: 'Local station' (selected), 'AD account', and 'Auto login'. Below the radio buttons, there are four input fields with orange borders: a host address field containing '172.16.10.75', a port field containing '3443', a username field containing 'admin', and a password field labeled 'Password'. Below these fields is a 'Log in' button with a dark background and white text. The background of the entire interface is dark blue with a pattern of diagonal lines.

**VSS**

**VAST Security Station**

☒ Local station

☐ AD account

☐ Auto login

172.16.10.75

3443

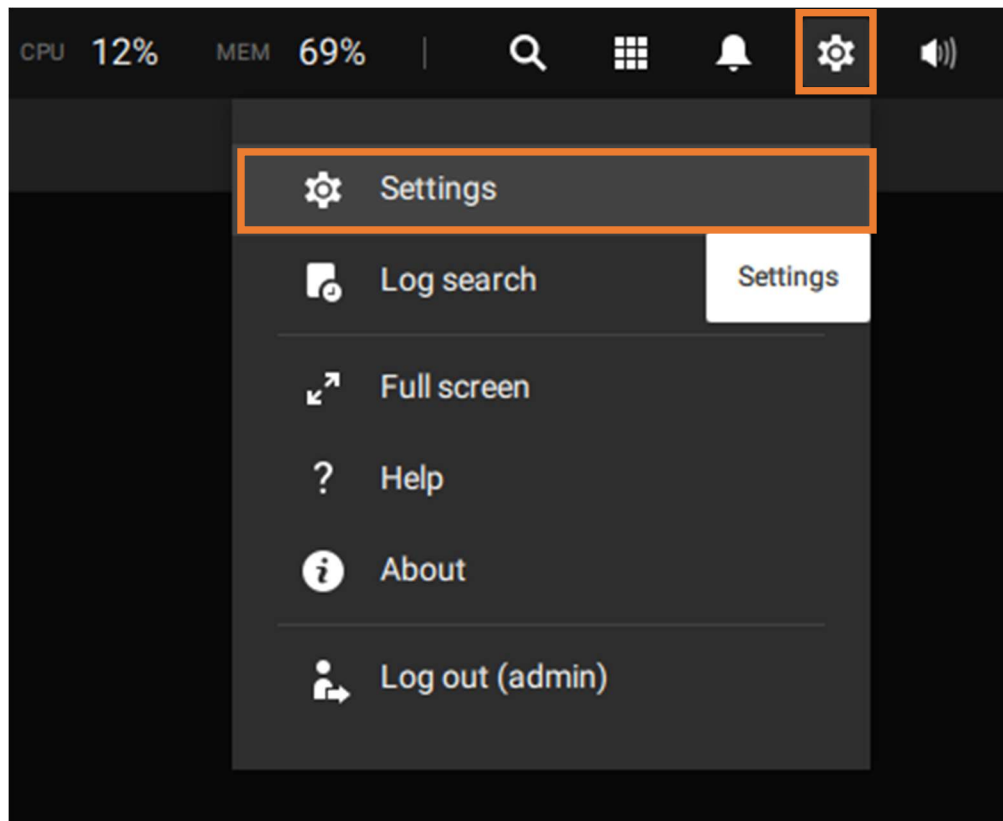
admin

Password

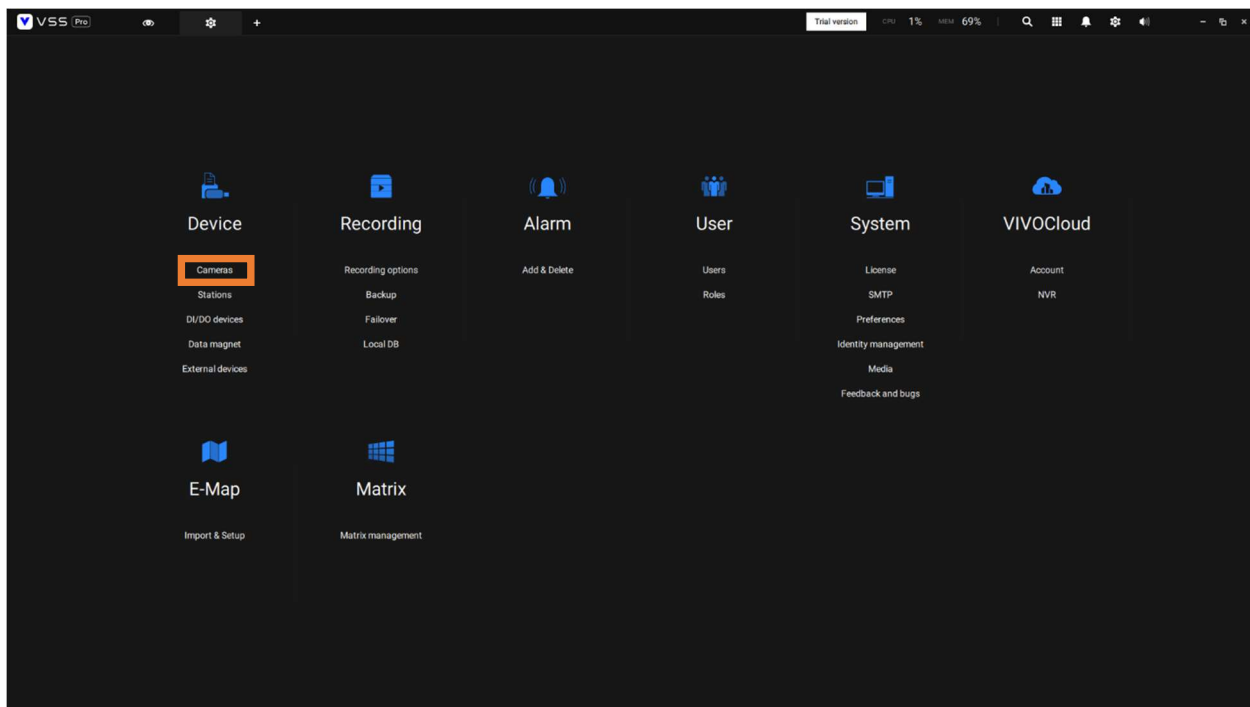
Log in

## VSS CLIENT – SETTINGS MENU

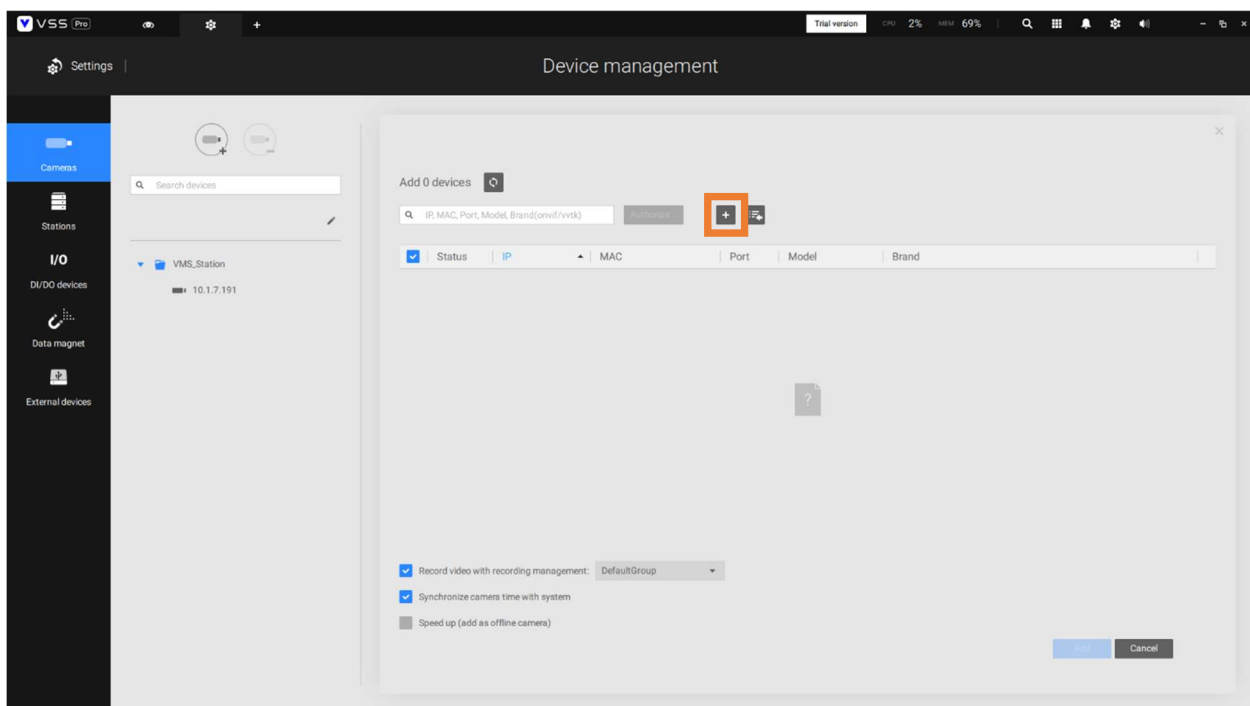
Click on **Settings** icon in the top right navigation and select **Settings** from the drop down menu.





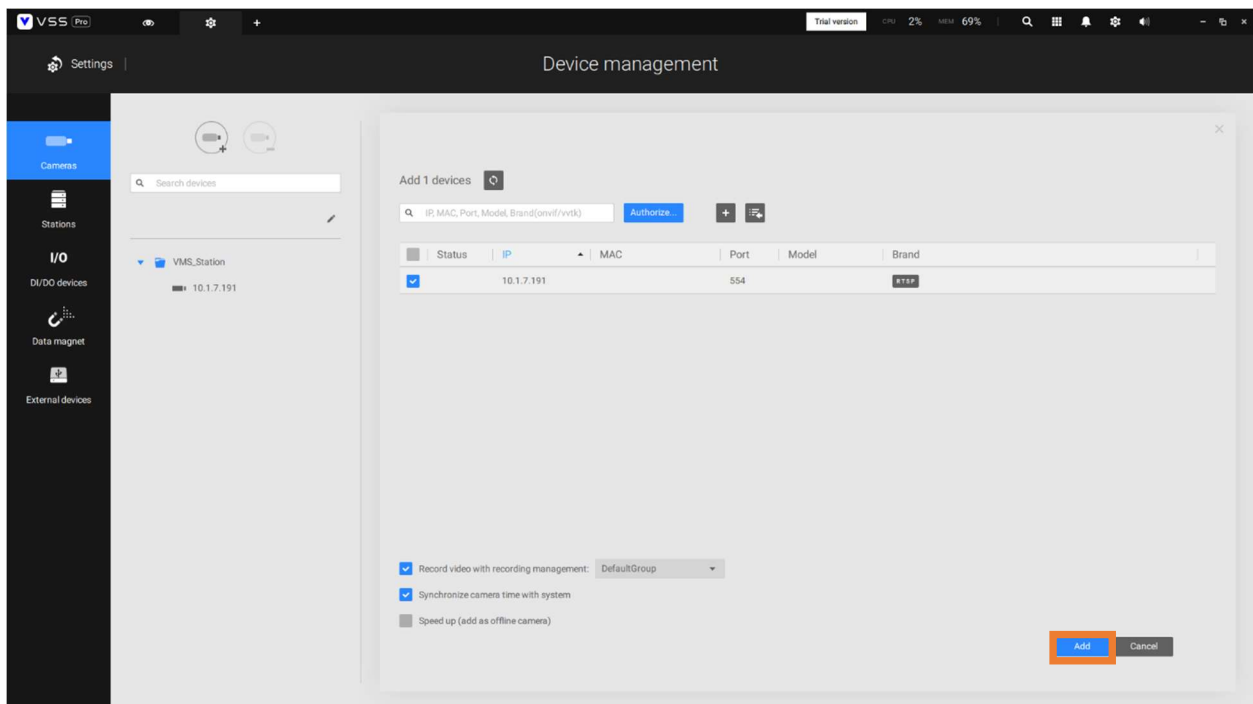


In the Device section, click on **Cameras**



On the Device Management window, Click the **Add Camera** icon

1. Select **RTSP** from the Drop Down Menu
2. Enter the RTSP URL and Port (IPADDRESS/stream) : 554
3. Select **TCP** from the Protocol Drop Down Menu
4. Click the Add button to proceed



Click the **Add** button

Authorize 1 selected devices

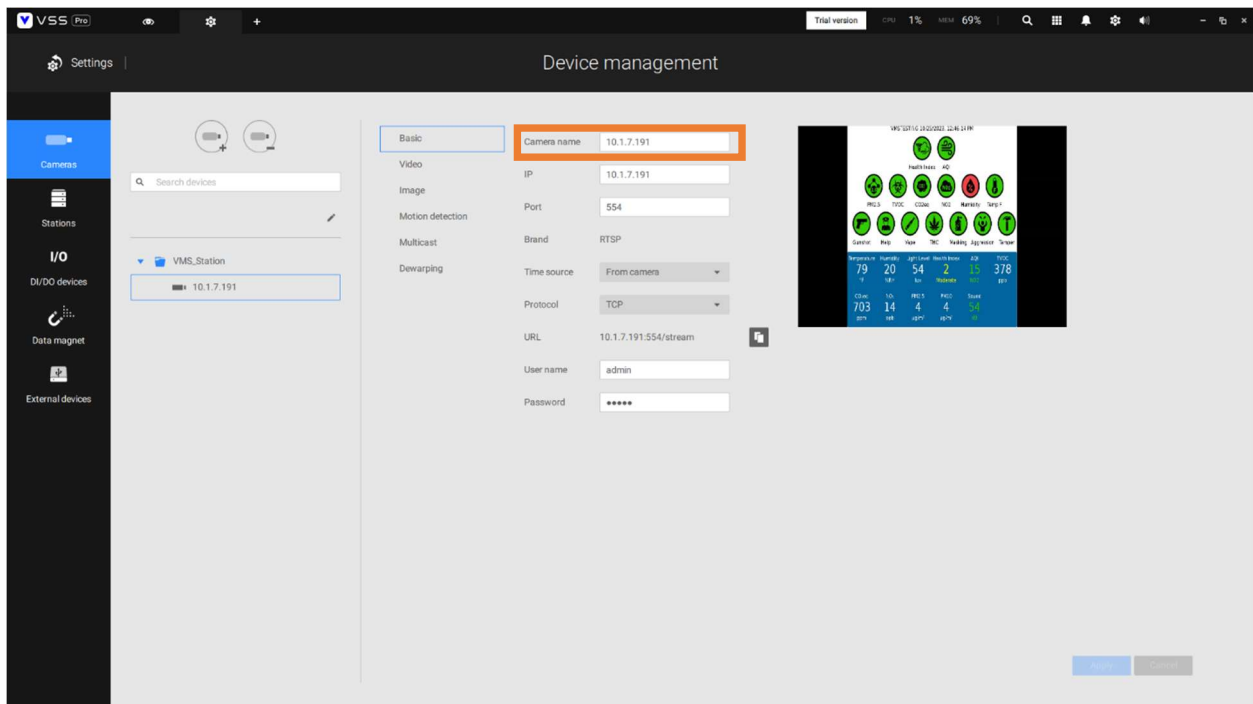
10.1.7.191

User name

Password

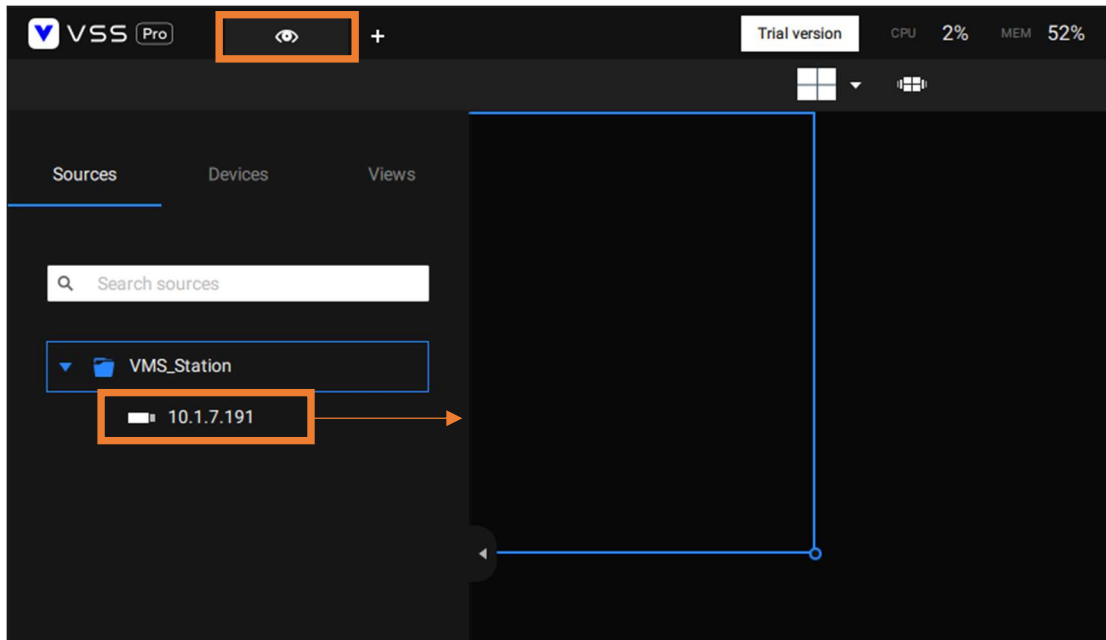
Apply Cancel

Enter the RTSP URL Username and Password as defined in the HALO Smart Sensor RTSP Settings and Click Apply

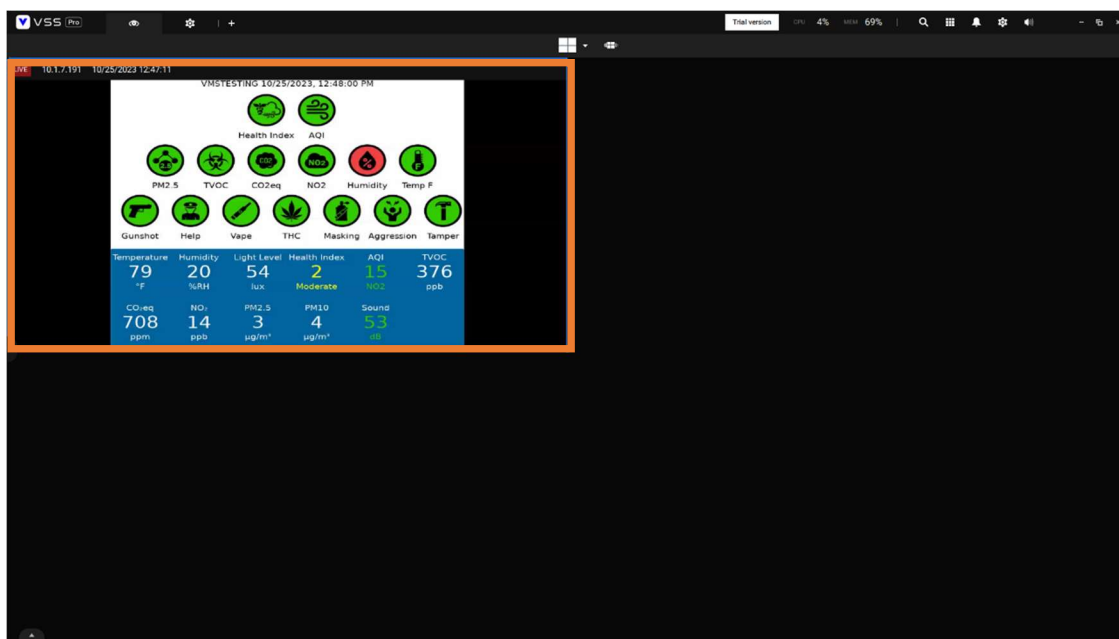


## VSS CLIENT – VISUALIZE HALO SMART SENSOR

1. Click on the Monitor tab
2. Drag the HALO Smart Sensor from the left navigation bar into the Viewing area of VSS

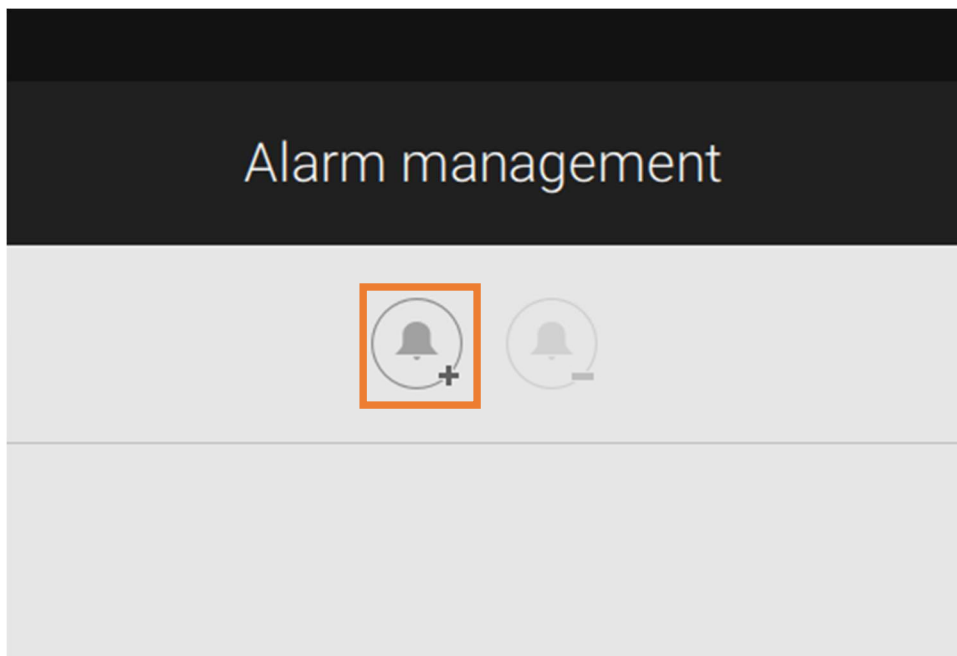
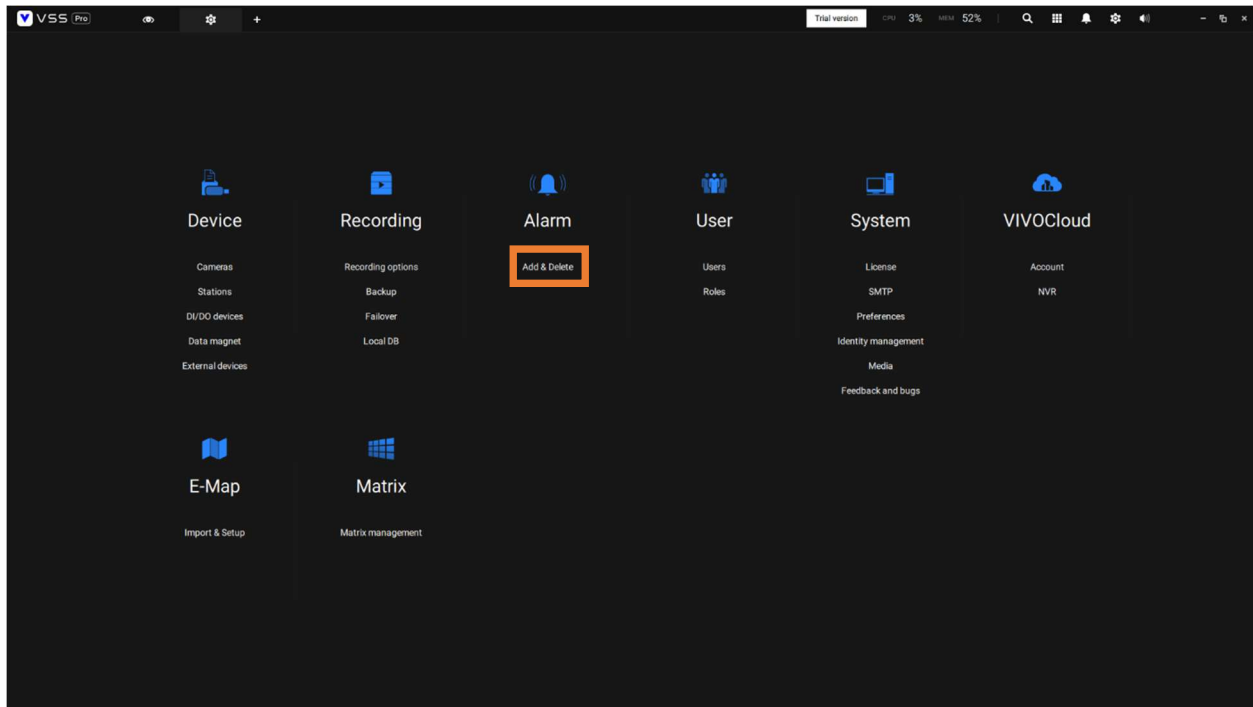


Collapse the left navigation bar to monitor the live activity of the HALO Smart Sensor

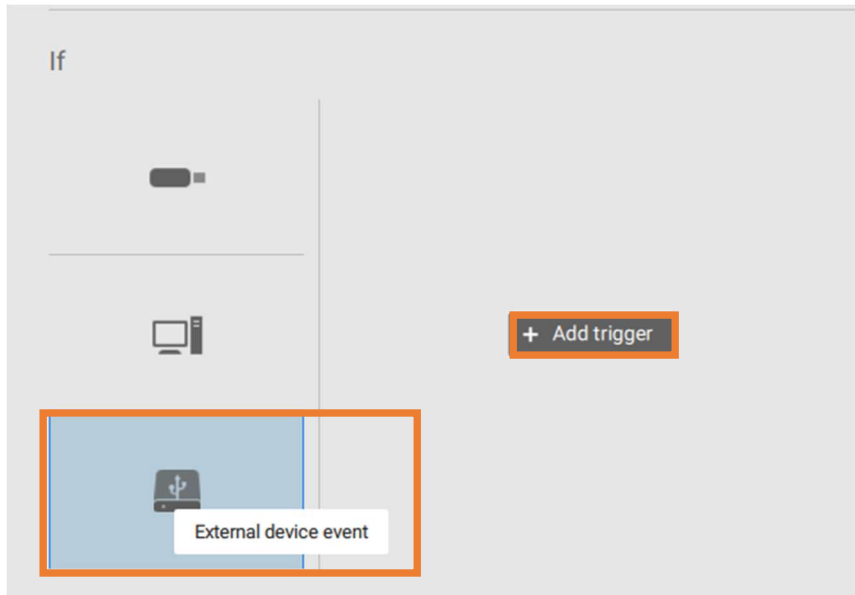


## VSS CLIENT – ADD ALARM

On the main Settings screen, click on **Add & Delete** under **Alarm**



On the Alarm Management screen, click on the **Add Alarm** icon.



1. In the “If” section of the screen, click on the **External Device Event** icon
2. Click on the **Add Trigger** button

×

Select trigger and source

Event/Status

TCP Message (Using default port 3444)

Search devices

VMS\_Station

VMS\_Station

Trigger alarm if receive TCP message

text matches

halo.event.Vape

☐ Case sensitive

No repeated triggers within

5

s

1~30s

Add

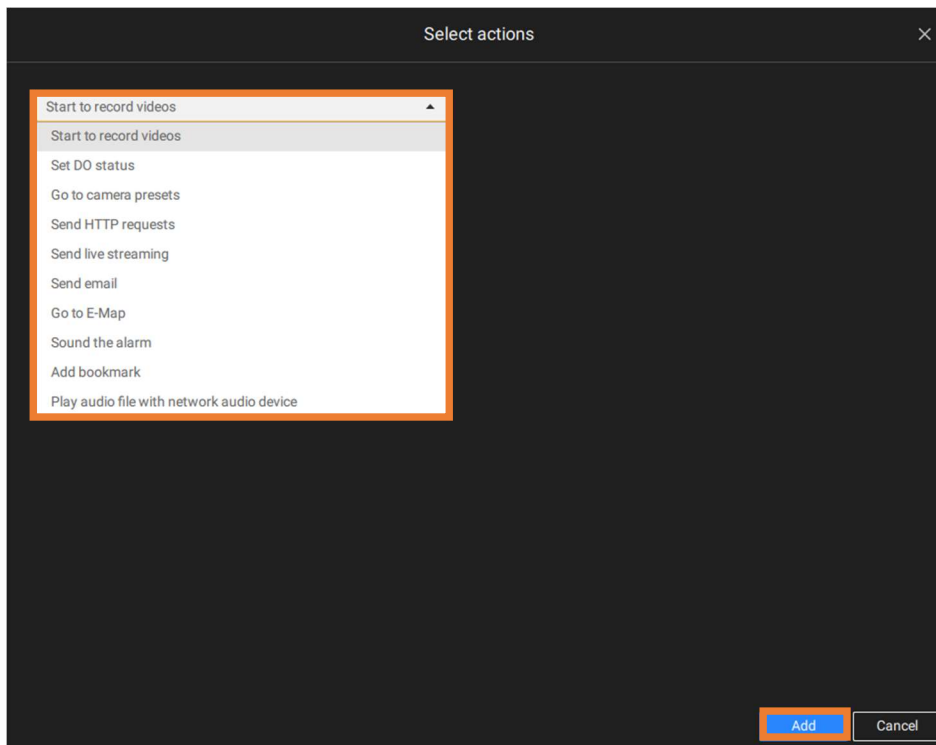
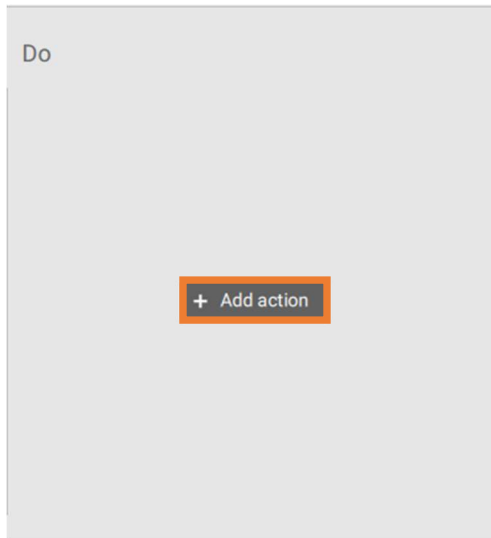
Cancel

3. Select ***TCP Message (Using default port 3444)***
4. Select the VSS Server
5. Select ***text matches*** in the drop down menu and Enter ***“halo.event.Vape”*** (Do not include quotations) in the text field to add a Vape Alarm. Separate Alarms will need to be created for each unique HALO Smart Sensor Event Type.
6. Click the ***Add*** button to save the trigger.

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14

1. In the “Do” section of the screen, click on the **Add Action** button



2. **Select one of the available Actions** from the drop down menu
3. Click the **Add** button to save the Action



Alarm

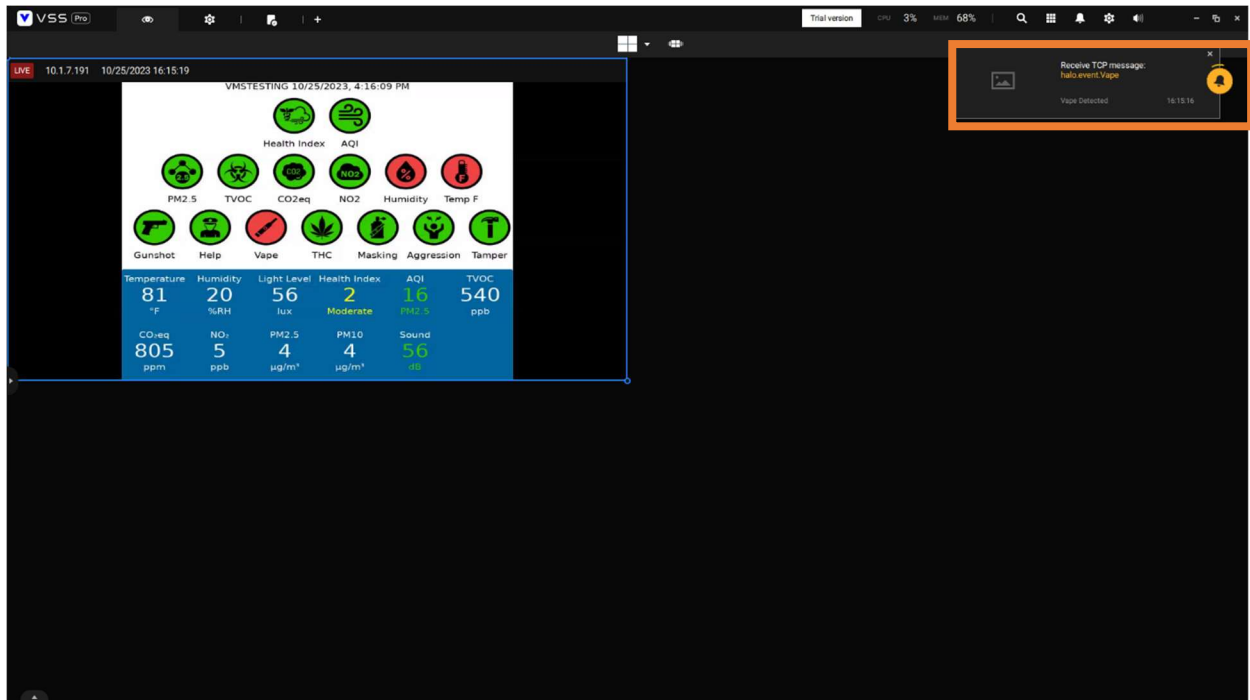
Instruction

Add

Cancel

1. In the “At” section of the screen, leave the default selection, Always, unless it is preferred to operate during a defined schedule.
2. Specify a Title and Description for triggers in the available text fields
3. Click the Add button to save the Alarm

## VSS CLIENT – ALARM NOTIFICATIONS



When HALO Smart Sensor is triggered, event messages are transmitted to the VSS Server, received, and displayed in the VSS Client in the top right corner of the screen. The associated Action is also triggered.