



VAST2 INTEGRATION GUIDE



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INTRODUCTION

The HALO Smart Sensor can be integrated into Vivotek's VAST2 Video Management Software using the RTSP output from the HALO device and the RTSP support of VAST2. 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 VAST2 to enable Alarm Notifications

Note: This integration was tested using VAST2 2.11 and HALO Firmware version 2.39

HALO SMART SENSOR – ENABLE RTSP STREAM

To capture the Stream URL needed to connect VAST2 to HALO, simply navigate to the HALO Smart Sensor with a Web Browser, and click on the **Image Icon** in the bottom navigation bar.



Scroll down to the RTSP settings.

RTSP

rtsp://10.1.7.191:554/stream

RTSP Stream Enabled

Authentication Both

User admin

Password

Image Graph

Port 554

Save

- 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) Select the **Image** Type (Dashboard or Graph)
- 6) Enter the RTSP **Port** (Default is 554)
- 7) Click **Save** to save RTSP Image Settings

HALO SMART SENSOR – ACTIONS

Click on the **Actions Icon**



in the bottom navigation bar.

Actions

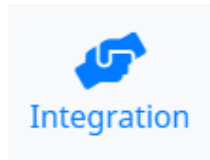
Event Identifier	Email Set	Email Reset	Msg Set	Msg Reset
Aggression	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AQI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Gunshot	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Help	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Masking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tamper	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
THC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Vape	<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	%THR% - event threshold	%FWVER% - firmware version
%IP% - ip address	%VAL% - sensor value	\\ - 1 back slash
%MAC% - mac address	%DATE% - local date of event	\n - new line
%EID% - event id	%TIME% - local time of event	\r - carriage return
%SOURCE% - data source	%PSWD% - password	\u#### - hex char code
	%USER% - user	etc.

Address 172.16.10.36 Port 3444

 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 **VAST2** Server in the IP Address field
5. Enter **3444** in the Port field
6. Click the **Save** button

VAST2 CLIENT – LOGIN

Login to the VAST2 Client as an Administrator.

Local station

172.16.10.139 3443

admin

Password

Log in

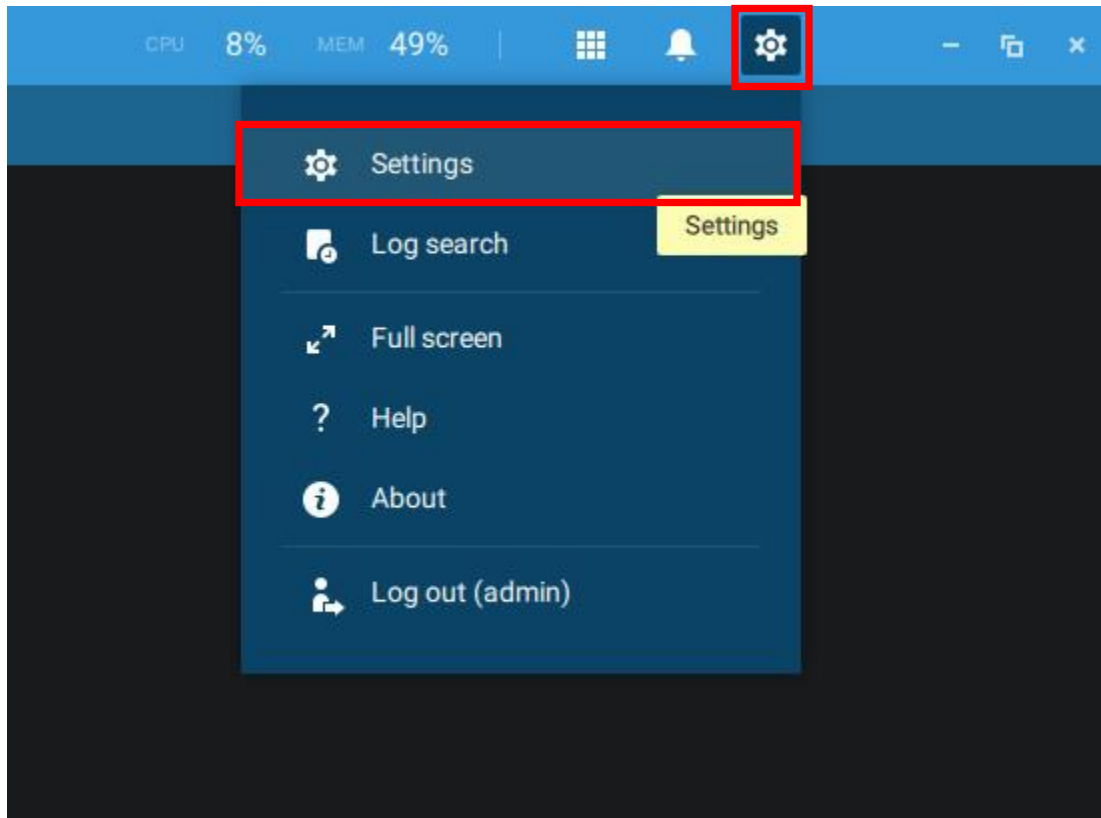
AD account

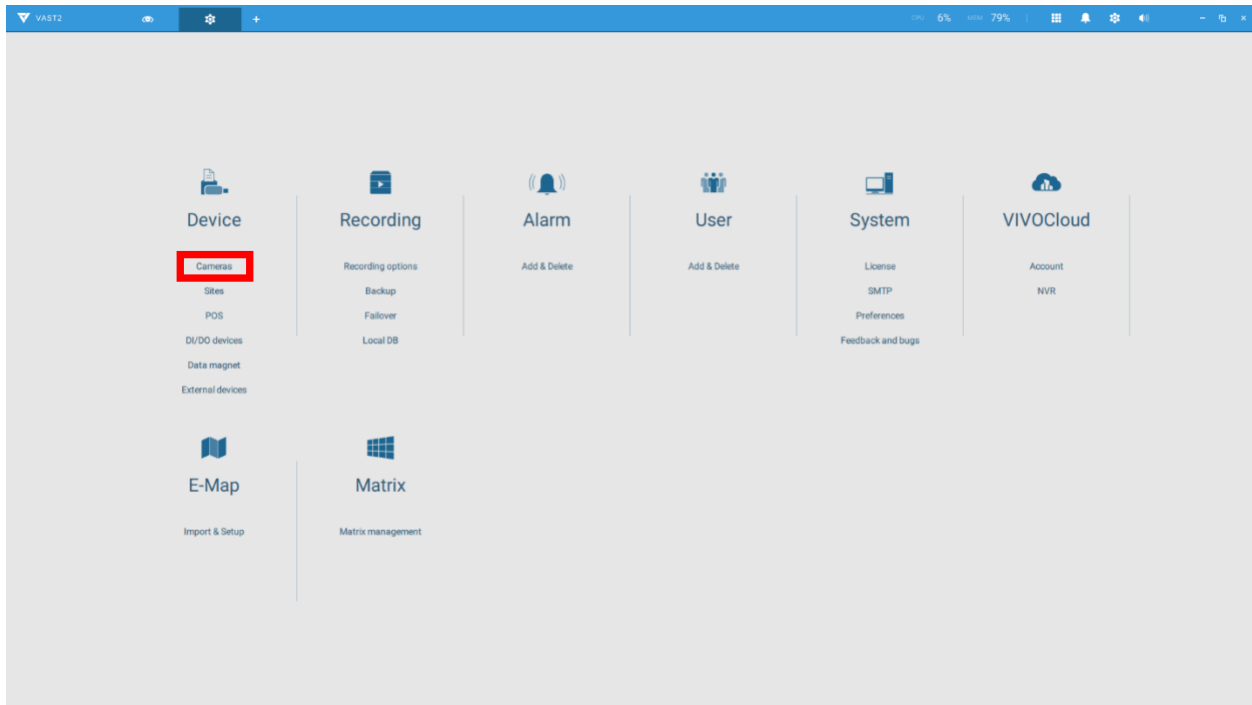
Auto login

VIVOTEK

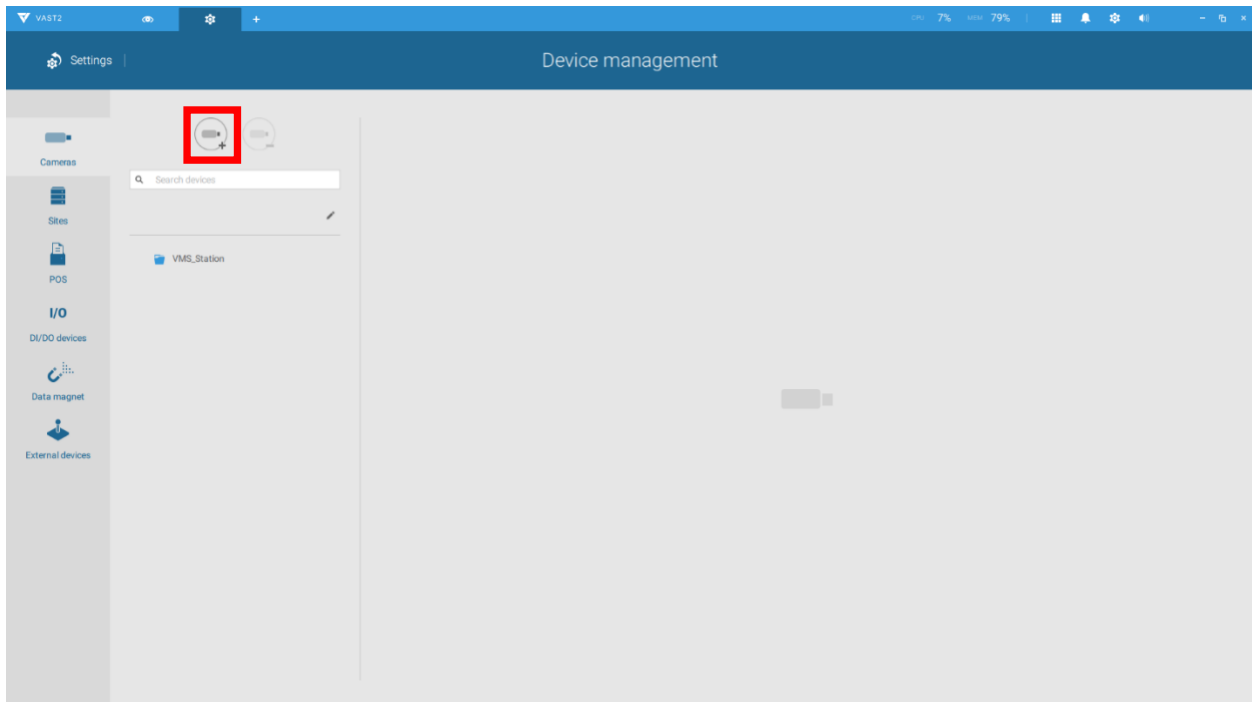
VAST2 CLIENT – SETTINGS MENU

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

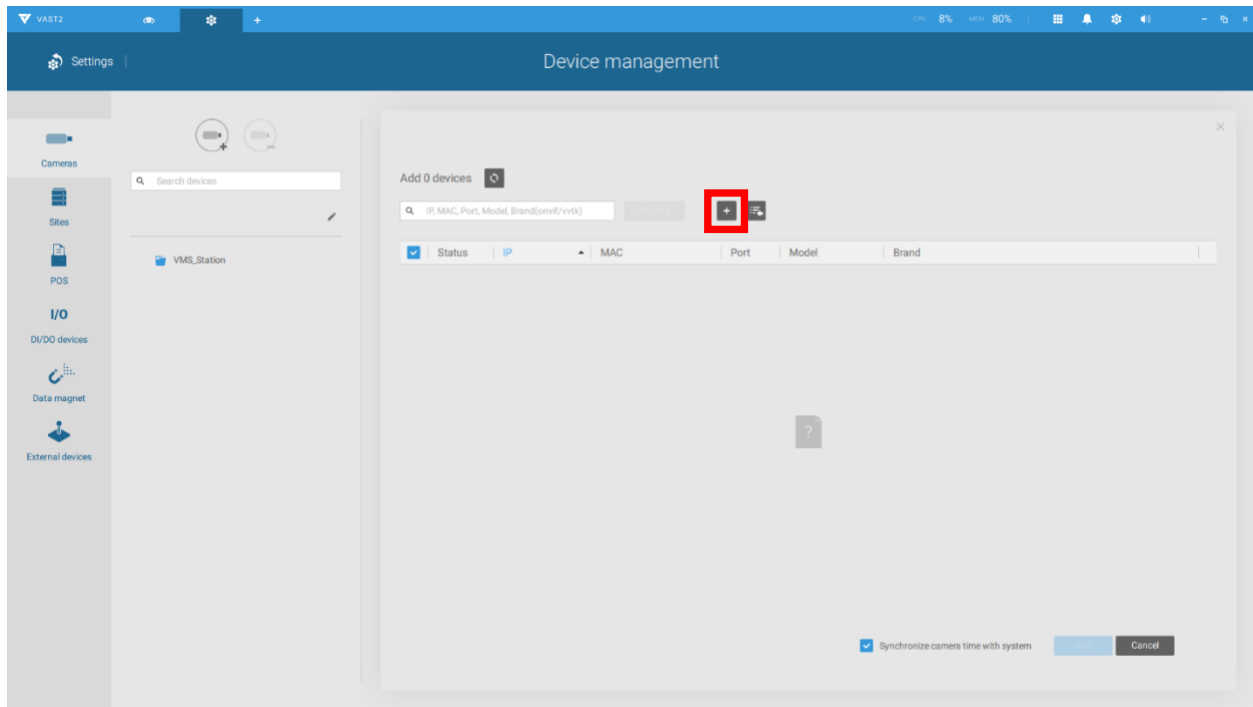




In the **Device** section, click on **Cameras**.



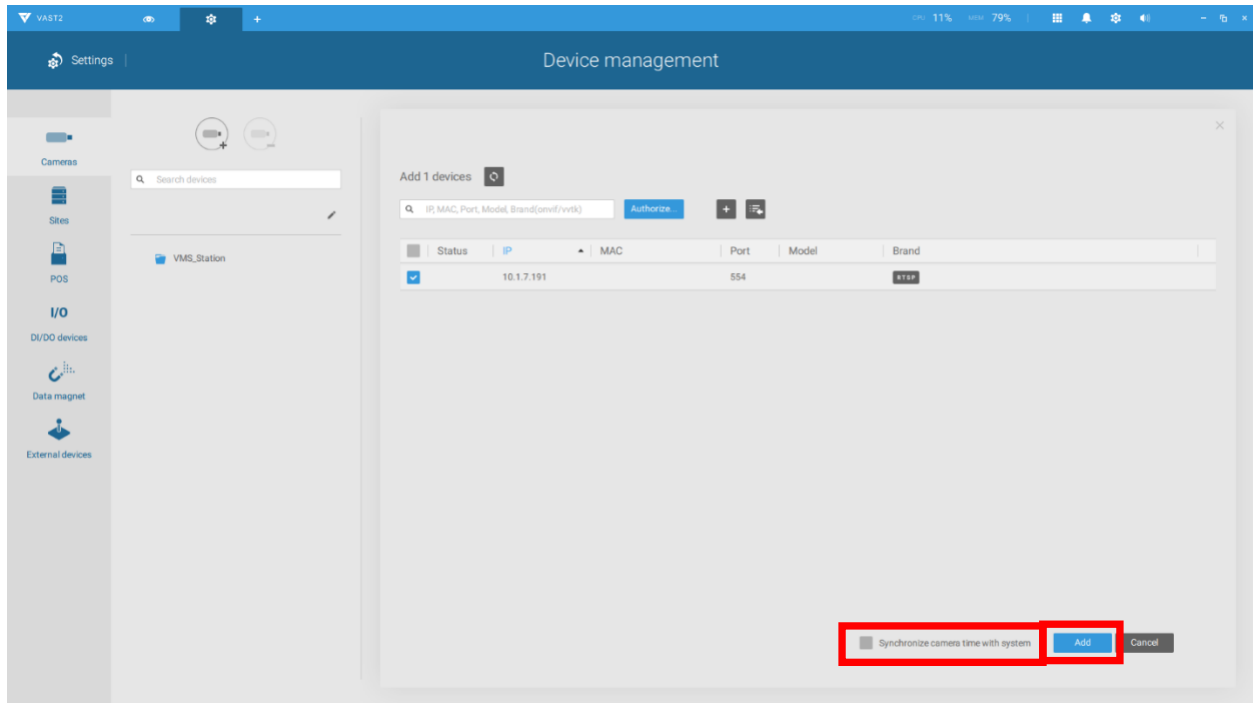
On the Device Management window, click the **Add Camera** icon.



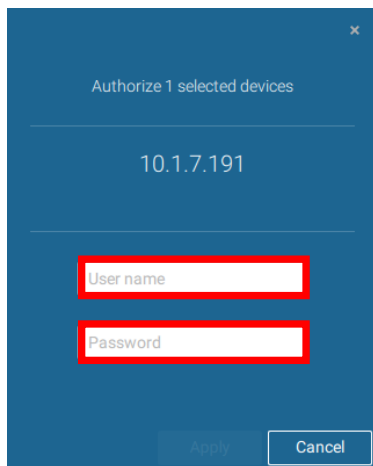
Click the + button to add the HALO Smart Sensor.



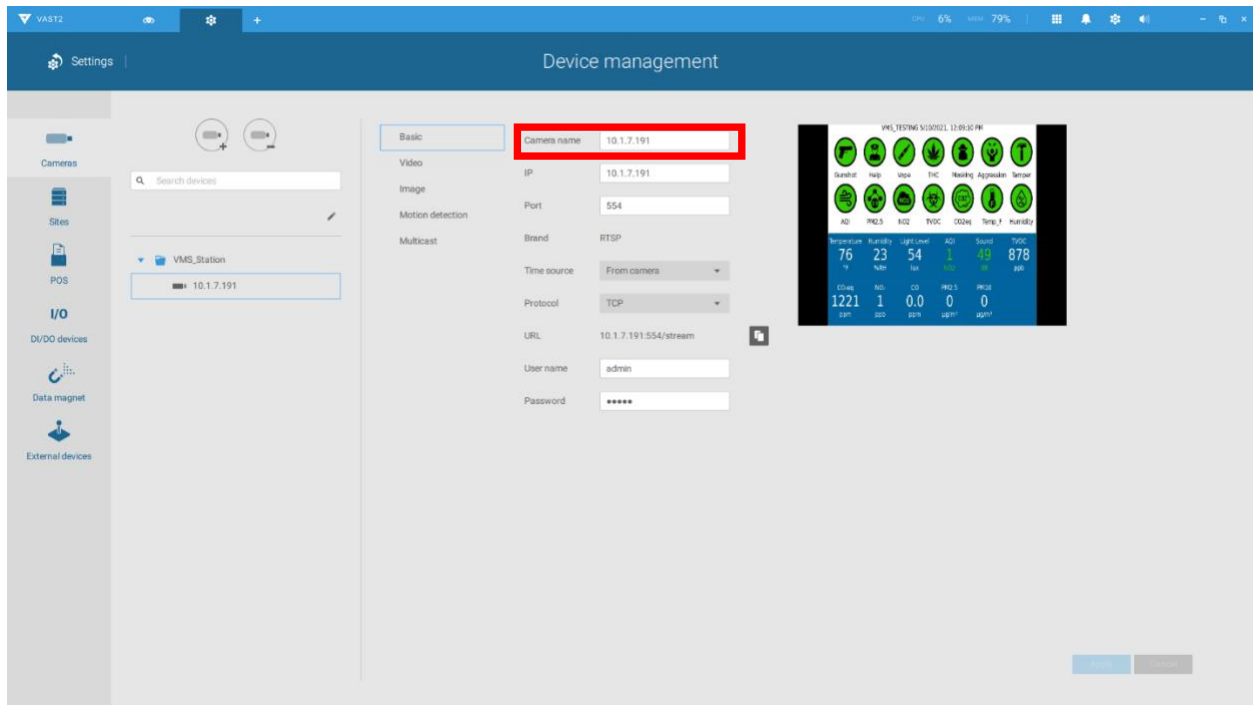
1. Select **RTSP** from the drop-down menu
2. Enter the RTSP URL and Port (IPADDRESS/stream): 554
3. Select **TCP** from the Protocol Drop Down Menu
4. Click the add button to proceed



Uncheck the synchronize camera time with system check box and click the add button.



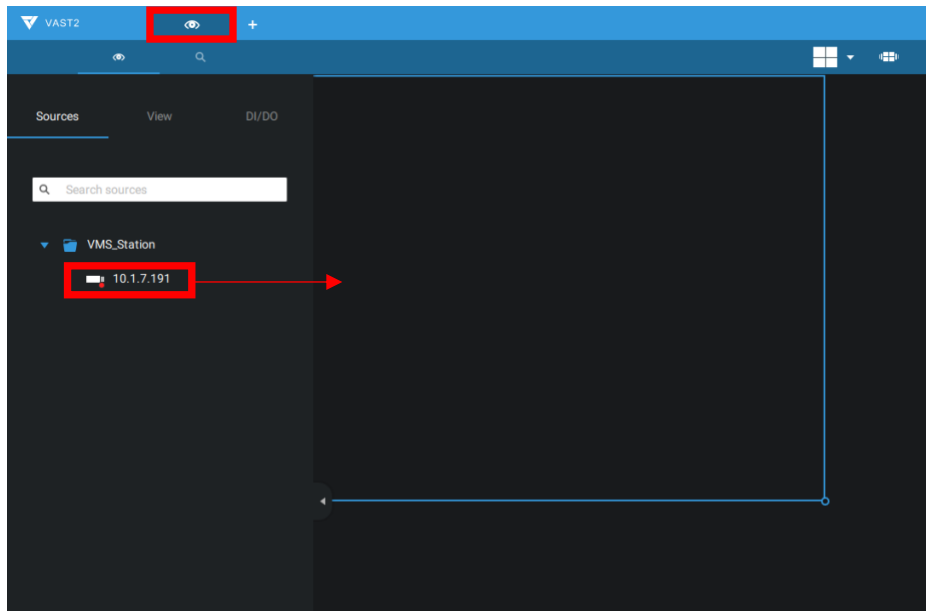
Enter the RTSP URL Username and Password as defined in the HALO Smart Sensor and click apply.



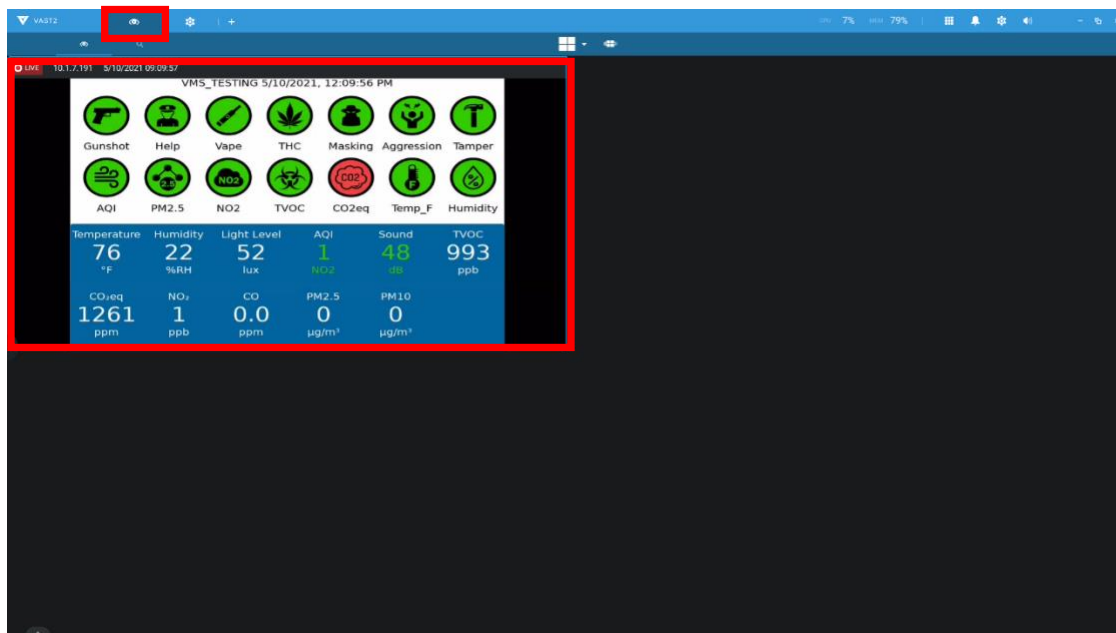
The HALO Smart Sensor RTSP stream will be displayed in the Device Management window. Use this interface to change the HALO Smart Sensor Device Name in VAST2.

VAST2 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 VAST2

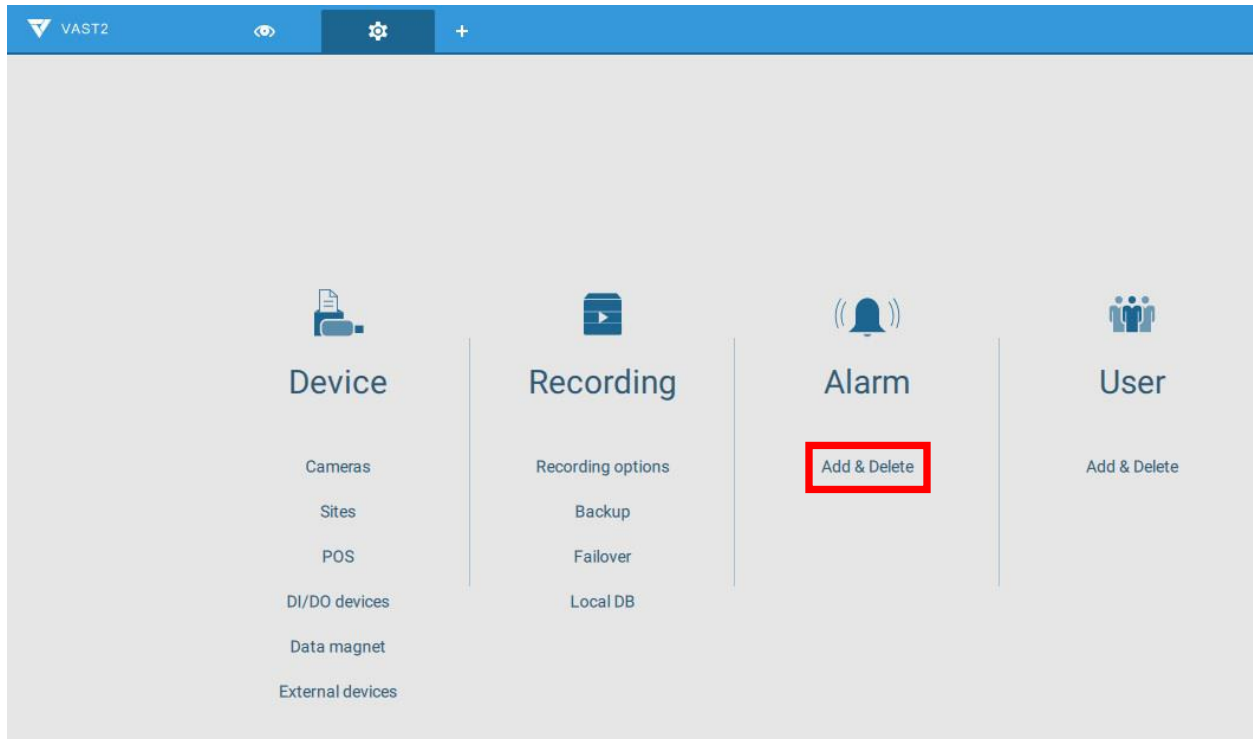


Collapse the left navigation bar to monitor the live activity of the HALO Smart Sensor.

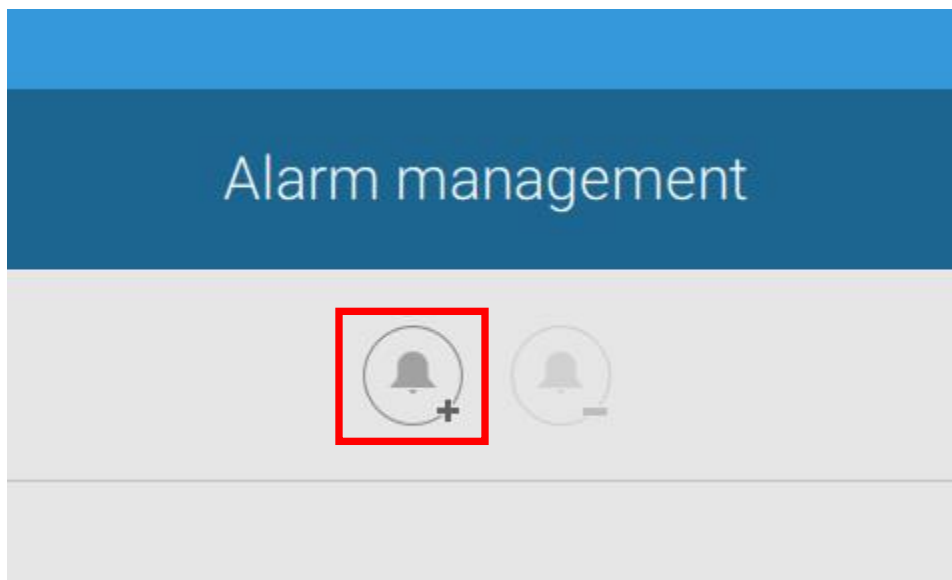


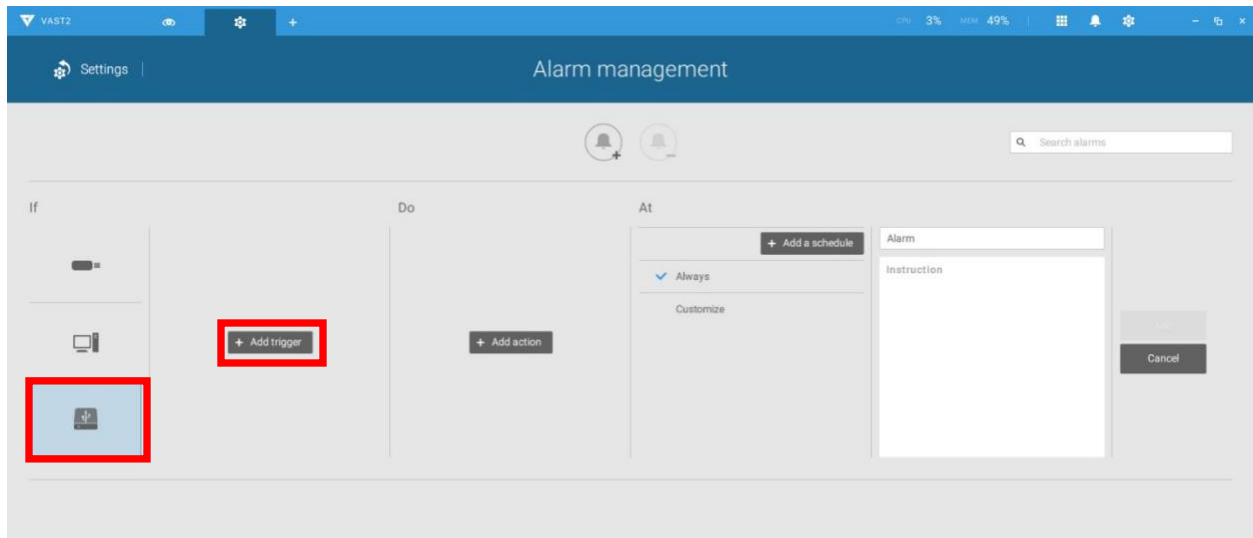
VAST2 CLIENT – ADD ALARM

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

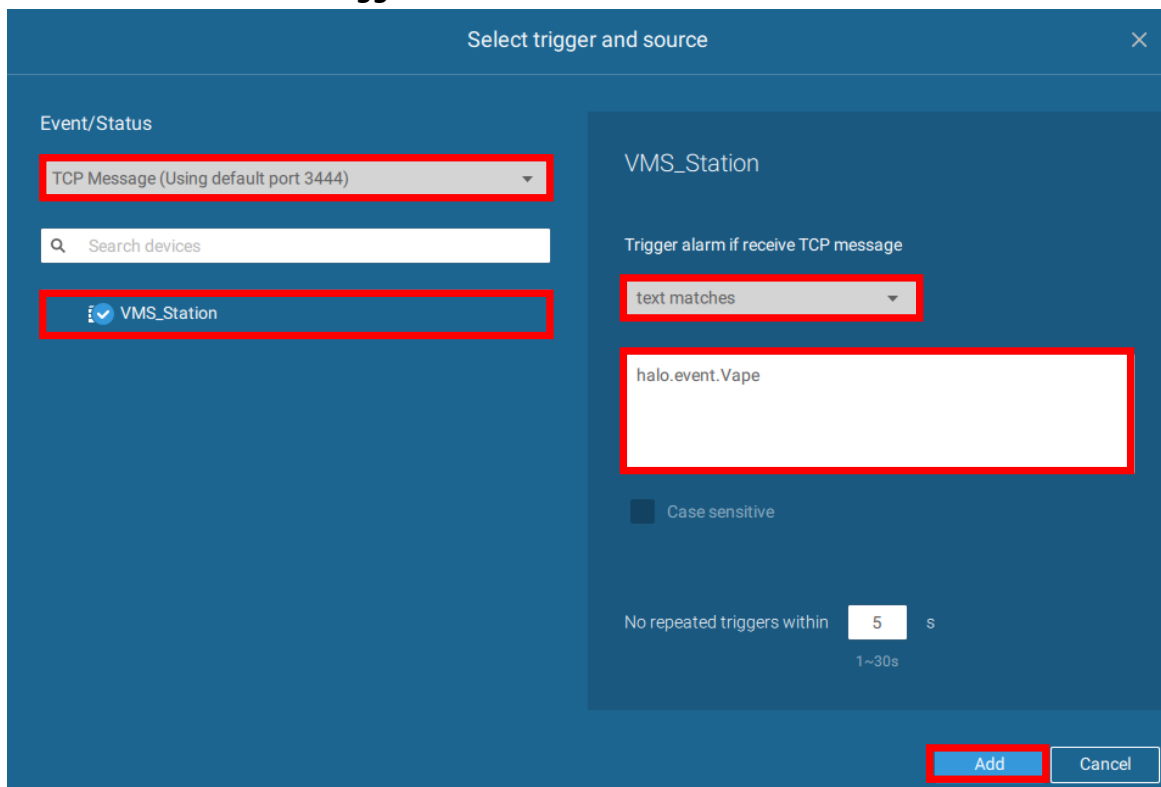


On the Alarm Management screen, click on the **Add Alarm** icon.



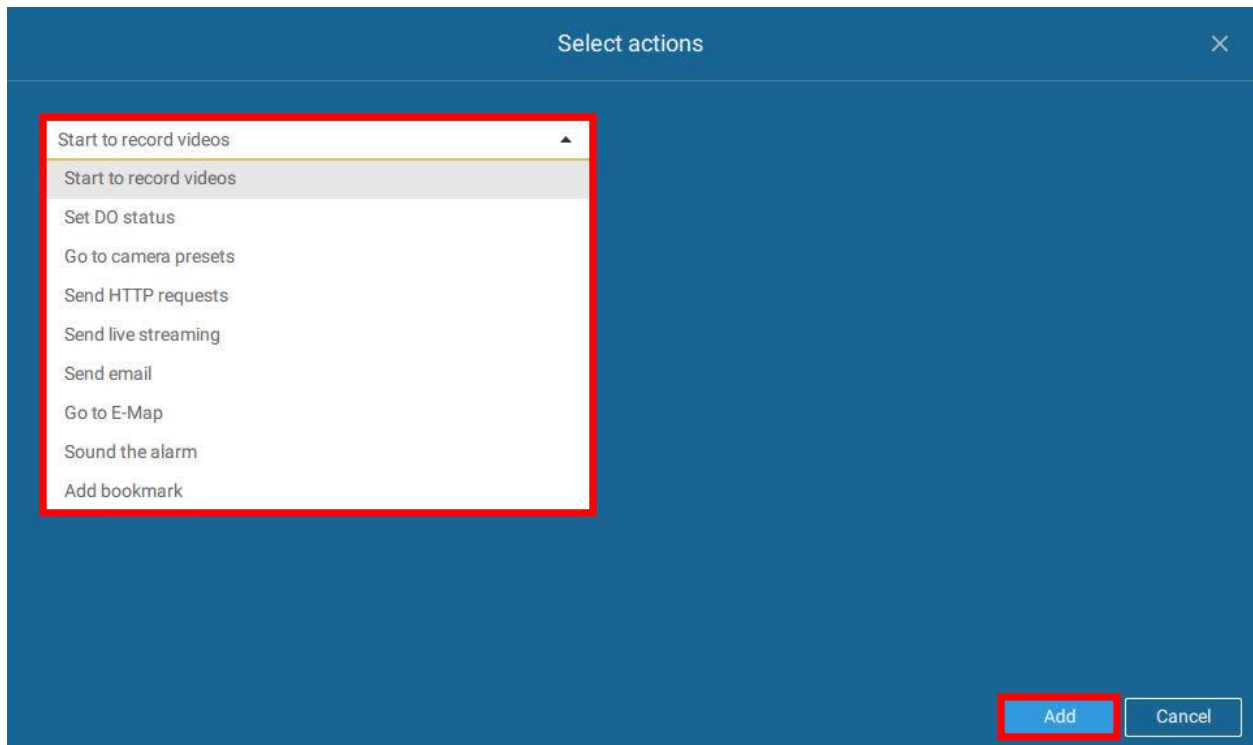
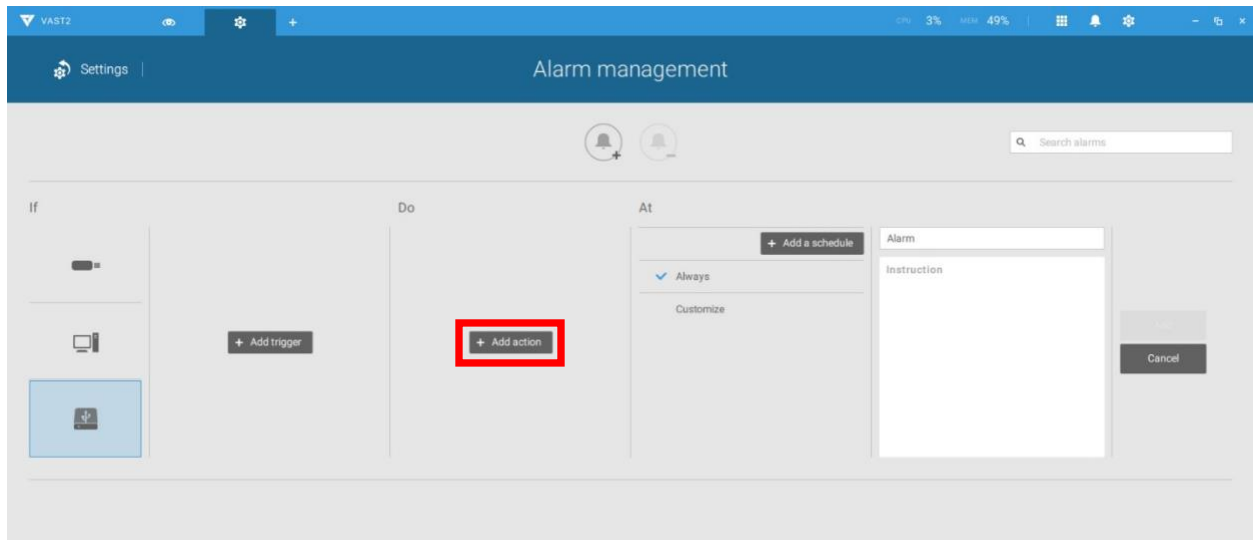


1. In the “If” section of the screen, click on the **External Device Event** icon
2. Click on the **Add Trigger** button

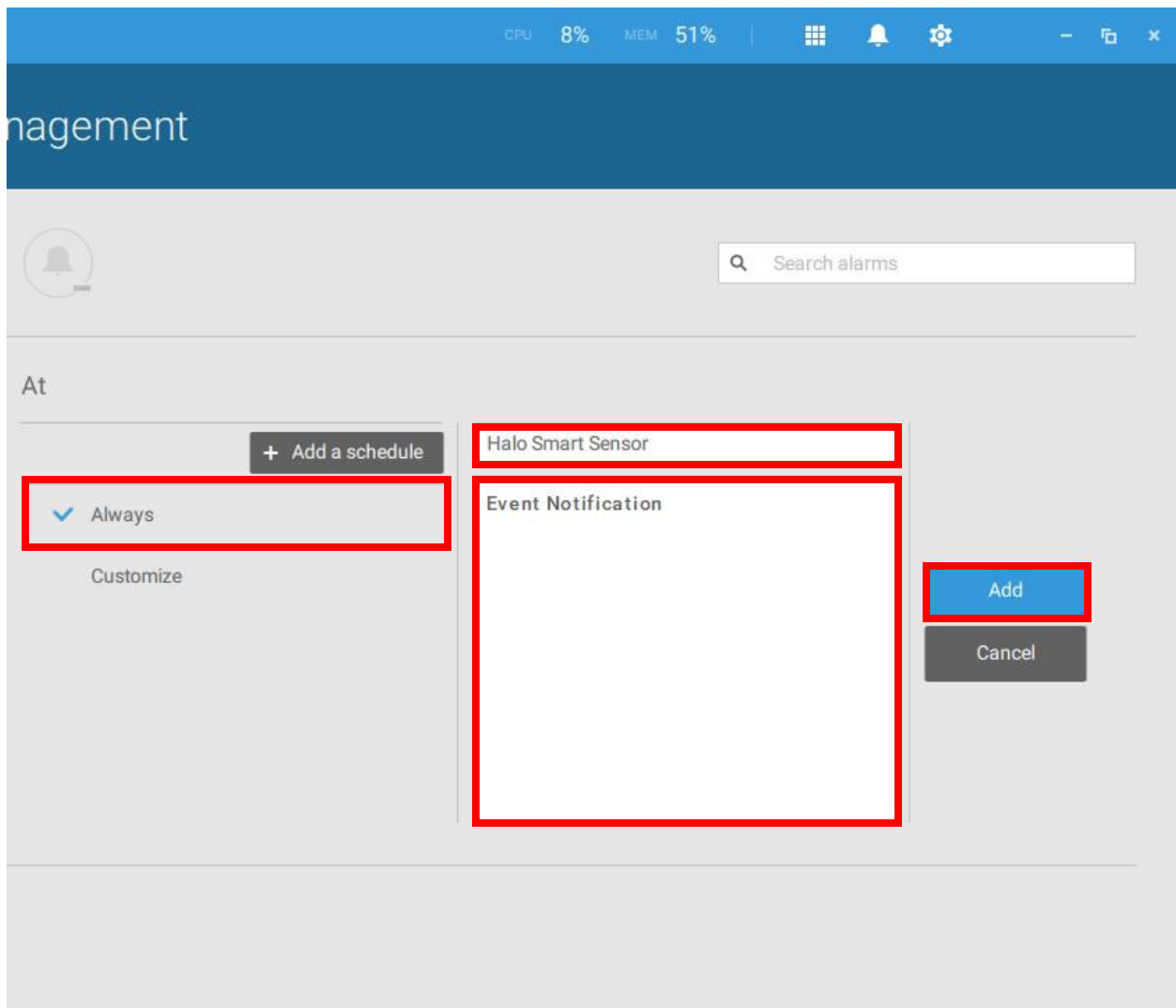


3. Select **TCP Message (Using default port 3444)**
4. Select the VAST2 Server
5. Select **text matches** in the drop down menu and Enter “**halo.event.Vape**” (Do not include quotations) in the text field to add a Vape Alarm. Separate Alarms will need to be created for each unique HALO Smart Sensor Event Type.
6. Click the **Add** button to save the trigger.

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

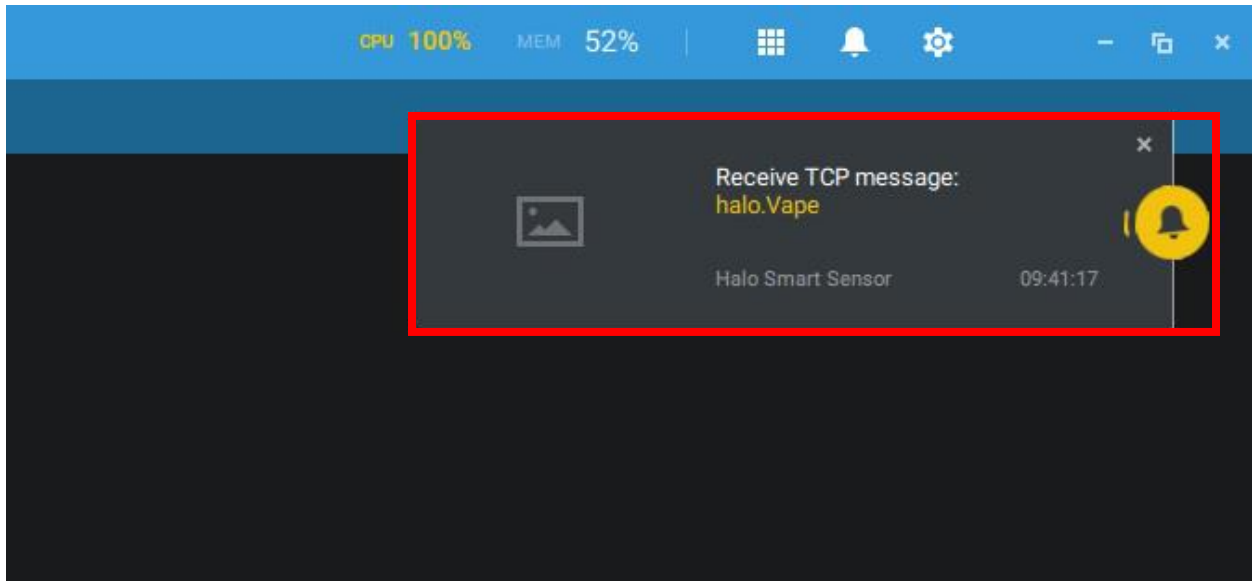


2. **Select one of the available Actions** from the drop-down menu
3. Click the **Add** button to save the Action



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

VAST2 CLIENT – ALARM NOTIFICATIONS



When HALO Smart Sensor is triggered, event messages are transmitted to the VAST2 Server, received, and displayed in the VAST2 Client in the top right corner of the screen. The associated Action is also triggered.