




BOGEN HALO-3C Halo Smart Sensor User Guide

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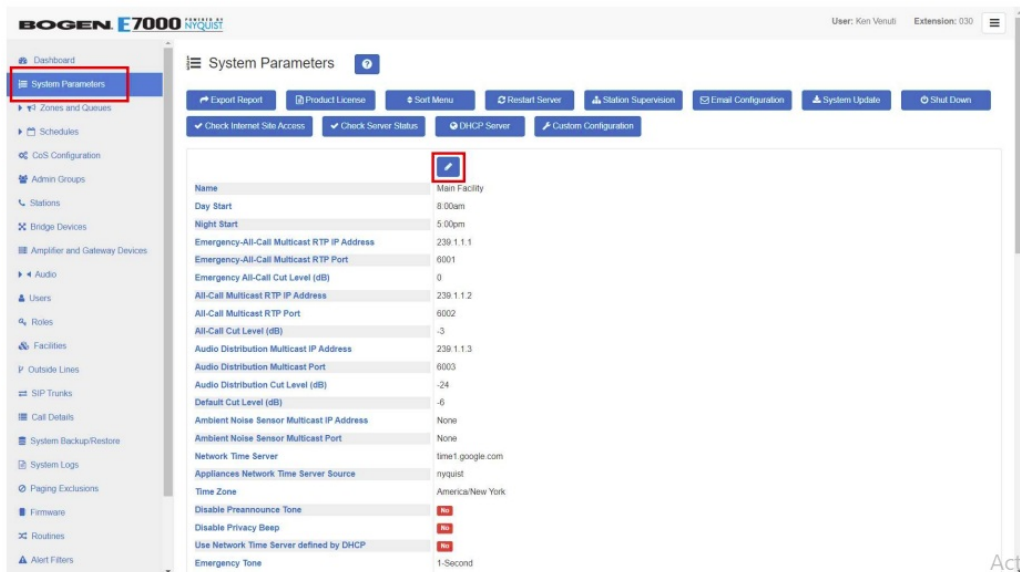
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INTRODUCTION

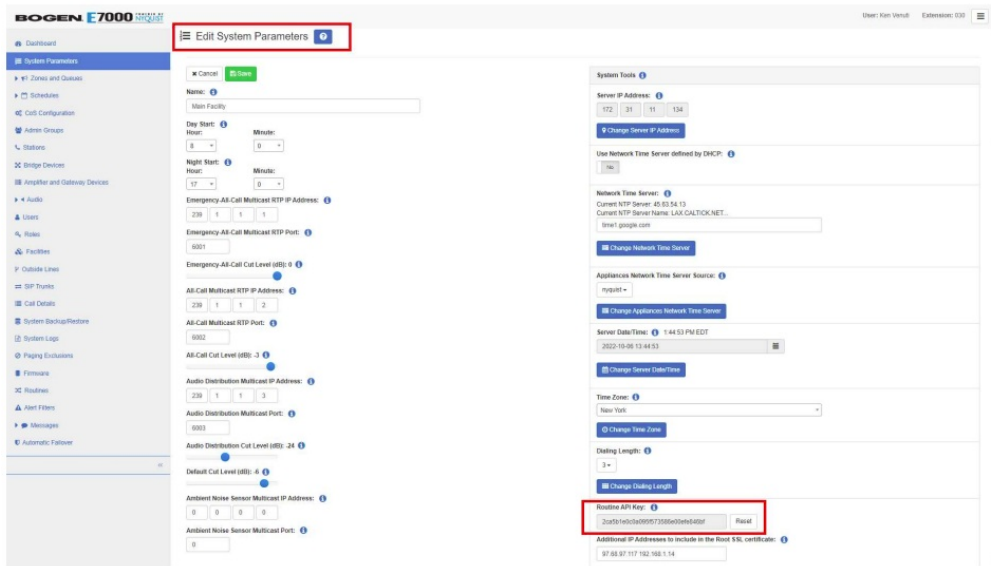
The HALO Smart Sensor can be integrated into the BOGEN Nyquist E7000 & C4000 solutions using HTTPS Messaging. This allows administrators to program HALO Smart Sensor to send notifications to NYQUIST to trigger the execution of Routines, which in turn, will trigger visual and audible notifications to be played in selected zones/areas.

Note : This integration was tested using Bogen Nyquist E7000 version 8.0 and HALO Smart Sensor Device Firmware 2.7.X This integration requires that the Nyquist system to have the Routines API License installed.

BOGEN NYQUIST – SYSTEM PARAMETERS



Click on System Parameters in the left navigation tree, and click the EDIT button as pictured above.



Copy the Routines API Key to the clipboard.

HALO SMART SENSOR – INTEGRATION

Navigate to the HALO Smart Sensor device user interface and click on Integrations.

Primary Integration

Integration Partner

--- Apply Settings ---

Protocol

☐ TCP
☒ HTTP

Repeat Holdoff

5

sec

Set String

https://[redacted]/routine/api/%UID%/0/0/abc/xyz[HEADER]Accept:application/json[HEADER]Content-Type:application/json[HEADER]Authorization:Bearer %PSWD%

☒ On
☐ Off

Reset String

☐ 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

More

User

Password

[redacted]

Save

1. Set Protocol to HTTP.
2. Paste the contents of the COPY of the Routines API Key into the Password field.
3. Copy the text below, edit the IP Address to match the Nyquist Server and paste into the Set String field.

https://192.168.1.100/routine/api/%UID%/0/0/abc/xyz[HEADER]Accept:application/json[HEAD

4. Click the On radio button for the Set String.
5. Click the Save button.

HALO SMART SENSOR – ACTIONS

Click on the Actions page and ensure that the “Set” checkbox is checked for each of the integrated events.

Event Identifier	Email		Primary Integration	
	Set	Reset	Set	Reset
Aggression	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AQI	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CO2cal	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gunshot	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Health_Index	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Help	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOGEN NYQUIST – ROUTINES MANAGEMENT

The screenshot shows the Bogen E7000 NYQUIST web interface. The left navigation bar has 'Routines' highlighted. The main area shows a table of routines. The 'Enable Routines API' button is highlighted. The table has the following data:

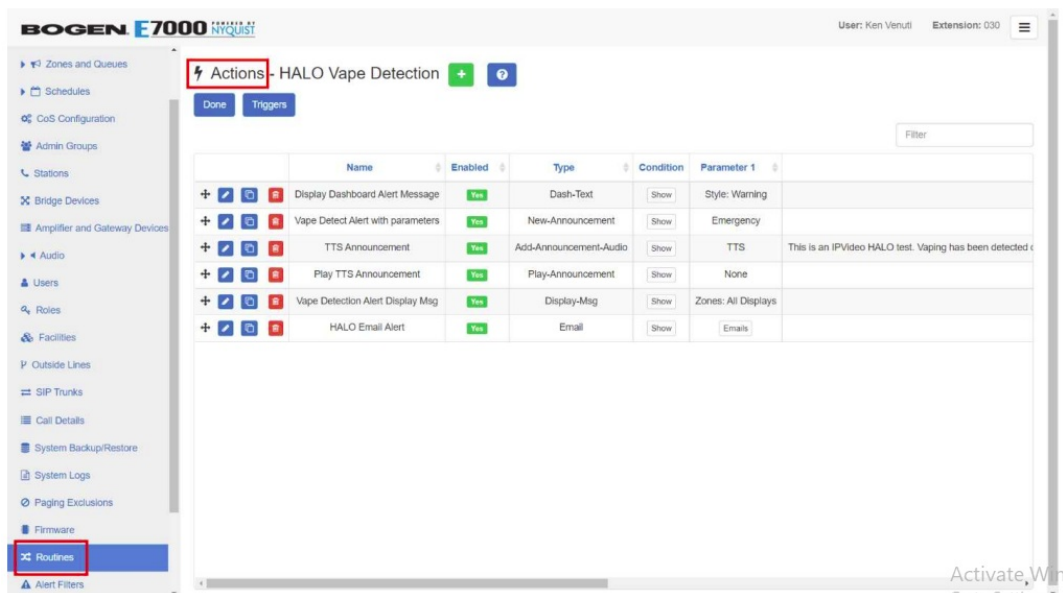
Name	Extension	Enabled	Use Caller's Extension	Allow DTMF	DTMF Code	Allow API	Allow Multiple	Description
Earthquake Warning Routine	020	Yes	No	Yes	1000	Yes	No	Show
HALO Vape Detection	025	Yes	No	Yes	4444	Yes	No	Show

1. Click on Routines in the left navigation bar.
2. Enable the Routines API.
3. Click the Add button to add a Routine for each HALO Smart Sensor Event type. Be sure to use a unique DTMF code (i.e., Routine ID) for each Routine.

The screenshot shows the Bogen E7000 NYQUIST web interface. The left navigation bar has 'Routines' highlighted. The main area shows the 'Edit Routine' form. The 'DTMF Code' field is highlighted.

Name: HALO Vape Detection
Extension: 025
Enabled: Yes
Use Caller's Extension: No
Allow DTMF: Yes
DTMF Code: 4444
Allow API: Yes
Allow Multiple: No
Description: IPVideo's HALO vape detection system testing.

Edit the Actions of the Routine to add/create the desired actions associated with the HALO Smart Sensor Event type.



HALO SMART SENSOR – EVENTS

1. Click on the Events page on the HALO Smart Sensor device interface.
2. For each event type, enter the DTMF value from each of the Routines created in E7000 in the UID field. Make sure that UID/Event Type matches the desired Routine.
3. Click Save to save the UID values.

PM2.5	PM2.5 (2.5 µm particulates) µg/m³	51	15		Advanced	Test	
Tamper	Move (mm/100)	1400	0	1111	Advanced	Test	
Temp_F	Temperature (F)	80	15		Advanced	Test	
THC	PM10 (10 µm particulates) µg/m³	35	0	5555	Advanced	Test	
TVOC	TVOC ppb	1000	15		Advanced	Test	
Vape	PM10 (10 µm particulates) µg/m³	35	0	4444	Advanced	Test	

Save Changes Close

HALO SMART SENSOR – TESTING THE CONNECTION

1. Click on the Actions button in the HALO Smart Sensor User Interface.
2. Click on the Test button of an Event Type that has been associated to a Routine to generate a test event.
3. In addition to the Email that all included users in the template receive, the HALO Event should be displayed in the primary dashboard of the Bogen Nyquist interface

PM2.5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	---	---	Steady	High	---	Test
Tamper	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	---	Red	Steady	High	---	Test
Temp_F	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	---	---	Steady	High	---	Test
THC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	---	Green	Steady	High	---	Test
TVOC	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	---	---	Steady	High	---	Test
Vape	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	---	Green	Steady	High	---	Test

Speaker Volume: 86%

Upload sound file
Choose Sound File
BrowseUpload

Delete sound file
--File To Delete--
Delete

BOGEN E7000

Facility: Main FacilityTime: 1:57 pmUser: Ken VenutiExtension: 030

Dashboard

System ParametersZones and QueuesSchedulesCoS ConfigurationAdmin GroupsStationsBridge DevicesAmplifier and Gateway DevicesAudioUsersRolesFacilitiesOutside LinesSIP TrunksCall DetailsSystem Backup/RestoreSystem LogsPaging ExclusionsFirmwareRoutesAlert Filters

Dashboard

Incoming Calls

Messages

2022-10-01 10:02:57 AM - This is an IPVideo HALO test. Vaping detected on-premises in building abc, near room xyz. Please alert school security accordingly.

2022-10-01 10:08:20 AM - This is an IPVideo HALO test. Vaping detected on-premises in building abc, near room xyz. Please alert school security accordingly.

2022-10-01 10:07:53 AM - This is an IPVideo HALO test. Vaping detected on-premises in building abc, near room xyz. Please alert school security accordingly.

2022-10-02 08:12:34 PM - This is an IPVideo HALO test. Vaping detected on-premises in building abc, near room xyz. Please alert school security accordingly.

2022-10-04 11:37:11 AM - This is an IPVideo HALO test. Vaping detected on-premises in building abc, near room xyz. Please alert school security accordingly.

2022-10-04 08:08:21 PM - This is an IPVideo HALO test. Vaping detected on-premises in building abc, near room xyz. Please alert school security accordingly.

2022-10-05 02:06:12 PM - This is an IPVideo HALO test. Vaping detected on-premises in building abc, near room xyz. Please alert school security accordingly.

Site

Calling/Paging

DirectoryDial PadPage ExclusionCall ForwardingZone PageRecord PagePrepend PageAll CallEmergency All CallManage Check-in

Multi-Site Calling/Paging


Facility PageMulti-Site All CallMulti-Site Emergency All CallFacility Announcement

Tones/Announcements

ToneAnnouncementAlarmStop Announcement

The logo for HALO SMART SENSOR features the word "HALO" in large, bold, blue capital letters. Below it, "SMART SENSOR" is written in smaller, blue capital letters. The text is set against a background of two overlapping orange and yellow swooshes that create a sense of motion or a lens flare effect.

Documents / Resources

	<p>BOGEN HALO-3C Halo Smart Sensor [pdf] User Guide</p> <p>HALO-3C Halo Smart Sensor, HALO-3C, Halo Smart Sensor, Smart Sensor, Sensor</p>
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References

- [User Manual](#)

Manuals+. Privacy Policy

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