




BOGEN Nyquist E7000 System Controller Installation Guide

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BOGEN Nyquist E7000 System Controlle



BOGEN NYQUIST INTEGRATION GUIDE

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.

Product Information

- Product Name: HALO Smart Sensor
- Manufacturer: IPVIDEO CORPORATION
- Compatible with: BOGEN Nyquist E7000 & C4000 solutions
- Integration Method: HTTPS Messaging
- Firmware Version: 2.7.X

Product Usage Instructions

1. Click on System Parameters in the left navigation tree, and click the EDIT button as pictured above.
2. Copy the Routines API Key to the clipboard.
3. Navigate to the HALO Smart Sensor device user interface and click on Integrations.
 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 it into the Set String field. [https://192.168.1.100/routine/api/%UID%/0/0/abc/xyz\[HEADER\]Accept:application/json\[HEADER\]Content-Type: application/json\[HEADER\]Authorization:Bearer %PSWD%](https://192.168.1.100/routine/api/%UID%/0/0/abc/xyz[HEADER]Accept:application/json[HEADER]Content-Type: application/json[HEADER]Authorization:Bearer %PSWD%)
 4. Click the On radio button for the Set String.
 5. Click the Save button.
4. Click on the Actions page and ensure that the Set checkbox is checked for each of the integrated events.
5. Click on Routines in the left navigation bar.
 1. Enable the Routines API.
 2. 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.
6. Edit the Actions of the Routine to add/create the desired actions associated with the HALO Smart Sensor Event type.
7. Click on the Events page on the HALO Smart Sensor device interface.
 1. 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.
 2. Click Save to save the UID values.
8. Click on the Actions button in the HALO Smart Sensor User Interface.
 1. Click on the Test button of an Event Type that has been associated to a Routine to generate a test event.
 2. 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.

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

BOGEN

E7000

NTYQUIST

User: Ken Venuti

Extension: 030

Dashboard

System Parameters

Zones and Queues

Schedules

CoS Configuration

Admin Groups

Stations

Bridge Devices

Amplifier and Gateway Devices

Audio

Users

Roles

Facilities

Outside Lines

SIP Trunks

Call Details

System Backup/Restore

System Logs

Paging Exclusions

Firmware

Routines

Alert Filters

System Parameters

Export Report

Product License

Sort Menu

Restart Server

Station Supervision

Email Configuration

System Update

Shut Down

Check Internet Site Access

Check Server Status

DHCP Server

Custom Configuration

Name	Main Facility
Day Start	8:00am
Night Start	5:00pm
Emergency-All-Call Multicast RTP IP Address	239.1.1.1
Emergency-All-Call Multicast RTP Port	6001
Emergency All-Call Cut Level (dB)	0
All-Call Multicast RTP IP Address	239.1.1.2
All-Call Multicast RTP Port	6002
All-Call Cut Level (dB)	-3
Audio Distribution Multicast IP Address	239.1.1.3
Audio Distribution Multicast Port	6003
Audio Distribution Cut Level (dB)	-24
Default Cut Level (dB)	-6
Ambient Noise Sensor Multicast IP Address	None
Ambient Noise Sensor Multicast Port	None
Network Time Server	time1.google.com
Appliances Network Time Server Source	nyquist
Time Zone	America/New York
Disable Preannounce Tone	No
Disable Privacy Beep	No
Use Network Time Server defined by DHCP	No
Emergency Tone	1-Second

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

BOGEN E7000

EXTENSION

User: Kim Vantu Extension: 00

Dashboard

System Parameters

Schedules

Call Configuration

Admin Groups

Locations

Bridge Devices

Amplifier and Gateway Devices

Audio

Users

Roles

Facilities

Outside Lines

BP Trunks

Call Details

System Backup/Restore

System Logs

Paging Extensions

Firmware

Routes

Net FFRS

Mosquito

Automatic Failover

Edit System Parameters

Cancel Save

Name:

Main Facility

Day Start:

Hour: 8 Minute: 0

Night Start:

Hour: 17 Minute: 0

Emergency-All-Call Multicast RTP IP Address:

230 1 1 1

Emergency-All-Call Multicast RTP Port:

6001

Emergency-All-Call Cut Level (dB):

0

All-Call Multicast RTP IP Address:

230 1 1 2

All-Call Multicast RTP Port:

5002

All-Call Cut Level (dB):

-3

Audio Distribution Multicast IP Address:

230 1 1 3

Audio Distribution Multicast Port:

5003

Audio Distribution Cut Level (dB):

-24

Default Cut Level (dB):

-6

Ambient Noise Sensor Multicast IP Address:

0 0 0 0

Ambient Noise Sensor Multicast Port:

0

System Tools

Server IP Address:

172 31 11 134

Change Server IP Address

Use Network Time Server defined by DHCP:

No

Network Time Server:

Current NTP Server: 40.63.54.13

Current NTP Server Name: LAX.GALTIK.NET...

time1.google.com

Change Network Time Server

Appliances Network Time Server Source:

nyjail

Change Appliances Network Time Server

Server Date/Time:

2022-10-08 13:44:53

Change Server Date/Time

Time Zone:

North York

Change Time Zone

Dialing Length:

3

Change Dialing Length

Routine API Key:

20a0b1e0c0a9890573056e0e0e540df Read

Additional IP Addresses to include in the Root SSL certificate:

97.88.97.117 192.168.1.14

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	%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	More

User: Password:

[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[HEADER]Content-Type:application/json[HEADER]Authorization:Bearer %PSWD%
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

BOGEN E7000 NYQUIST User: Ken Versu Extension: 030

Routines + +

Export Import Enable Routines API Yes

	Name	Extension	Enabled	Use Caller's Extension	Allow DTMF	DTMF Code	Allow API	Allow Multiple	Description
<input type="checkbox"/>	Earthquake Warning Routine	020	Yes	No	Yes	1000	Yes	No	Show
<input type="checkbox"/>	HALO Vape Detection	025	Yes	No	Yes	4444	Yes	No	Show

Routines

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.

BOGEN E7000 NYQUIST User: Ken Venuti Extension: 030

Edit Routine

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.

BOGEN E7000 NYQUIST User: Ken Venuti Extension: 030

⚡ Actions - HALO Vape Detection

Done Triggers

Filter

	Name	Enabled	Type	Condition	Parameter 1
+ [icon]	Display Dashboard Alert Message	Yes	Dash-Text	Show	Style: Warning
+ [icon]	Vape Detect Alert with parameters	Yes	New-Announcement	Show	Emergency
+ [icon]	TTS Announcement	Yes	Add-Announcement-Audio	Show	TTS This is an IPVideo HALO test. Vaping has been detected
+ [icon]	Play TTS Announcement	Yes	Play-Announcement	Show	None
+ [icon]	Vape Detection Alert Display Msg	Yes	Display-Msg	Show	Zones: All Displays
+ [icon]	HALO Email Alert	Yes	Email	Show	Emails

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%

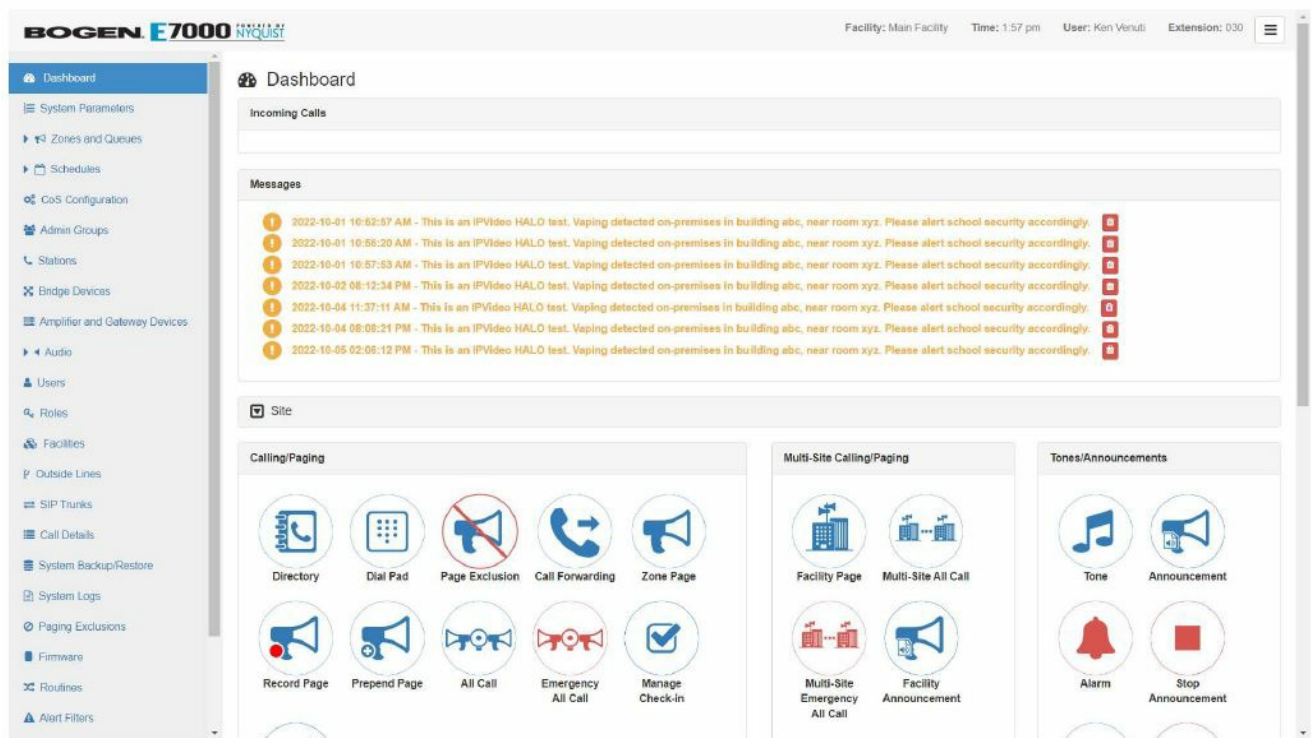
Upload sound file

Choose Sound File

Delete sound file


---File To Delete---

Save Close



- IP VIDEO CORPORATION
- 1490 NORTH CLINTON AVENUE BAY SHORE NY 11706

Documents / Resources

	<p>BOGEN Nyquist E7000 System Controller [pdf] Installation Guide Nyquist E7000 System Controller, Nyquist E7000, System Controller, Controller</p>
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