

Honeywell

Easy Healthy Building

INSTALLATION AND OPERATIONS GUIDE

MAY 2021

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Document History

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About this Guide

This guide provides information about the Healthy Building Dashboard and its configuration.

About Easy Healthy Building

Easy Healthy Building provides a score that enables the user to understand their buildings in key performance indicators (Temperature, CO2, Humidity, PM2.5, TVOC, and Occupancy) which can be used with sensor feedback values to calculate the healthy building score which can be displayed on the Healthy Buildings Dashboard. This can provide an indication of comfort level and environment safety.

The Healthy Building dashboard provides, visibility of the health of a portfolio/Region /Building and its underlying zones. This helps to triage a zone based on their performance score. The Healthy Building score is computed at zone level.

Healthy Building Dashboard

The information displayed on the Healthy Building Dashboard depends on the user type. There are two types of user:

- Admin
- Non-Admin

The Admin view is as shown below. In this view, this type of user has four tab such as:

- ALL KPI'S,
- ZONE WISE SUMMARY
- HEALTHY BUILDING ALARMS
- ZONE CONFIGURATION

Zone configuration is a tab where admin user can do all cured operation like creating zone, editing zone, deleting zone and disabling/enabling zone.

The screenshot displays the 'HEALTHY BUILDING DASHBOARD' with four tabs: ALL KPI'S, ZONE WISE SUMMARY, HEALTHY BUILDING ALARM, and ZONE CONFIGURATION. The 'ALL KPI'S' tab is active, showing a cityscape image on the left and several KPI cards on the right.

HEALTHY BUILDING NOTIFICATION
 2/9
 Total Notifications
 1 Urgent, 0 High, 1 Low

ALL ZONES WELLNESS
 POOR (All Zones)

AIR QUALITY

Temperature	Humidity
EXCELLENT (All Zones)	INADEQUATE (All Zones)
CO2	PM2.5
INADEQUATE (All Zones)	1 (Zones out of Range)
TVOC	Occupancy
1 (Zones out of Range)	INADEQUATE (All Zones)

HEALTHY BUILDING ALARM


Notification Type: All
 5 Source(s) / 9 Alarm(s)

Info	Timestamp	Source	Message Text	Source State	Priority	Ack State
🔴	06-May-21 3:10:33 PM IST	Points-tvoc		Offnormal	255	0 Acked / 5 Unacked
🔴	15-Apr-21 1:51:44 PM IST	Points-temp1		Offnormal	255	0 Acked / 0 Unacked / 1 Pending
🔔	15-Apr-21 1:51:44 PM IST	Points-tvoc1		Offnormal	255	1 Acked / 0 Unacked

The Non-Admin View is as shown below. It contains three tabs such as:

- ALL KPI'S
- ZONE WISE SUMMARY
- HEALTHY BUILDING ALARMS.

ALL KPI'S ZONE WISE SUMMARY HEALTHY BUILDING ALARM



HEALTHY BUILDING NOTIFICATION
2/9
 Total Notifications

1 Urgent

0 High

1 Low

ALL ZONES WELLNESS

POOR

All Zones

AIR QUALITY

Temperature

EXCELLENT

All Zones

Humidity

INADEQUATE

All Zones

CO2

INADEQUATE

All Zones

PM2.5

1

Zones out of Range

TVOC

1

Zones out of Range

Occupancy

INADEQUATE

All Zones

HEALTHY BUILDING ALARM

Notification Type All

5 Source(s) / 9 Alarm(s)

Time Range ? to ?

Info	Timestamp	Source	Message Text	Source State	Priority	Ack State
	06-May-21 3:10:33 PM IST	Points-tvoc		Offnormal	255	0 Acked / 5 Unacked
	15-Apr-21 1:51:44 PM IST	Points-temp1		Offnormal	255	0 Acked / 0 Unacked / 1 Pending
	15-Apr-21 1:51:44 PM IST	Points-tvoc1		Offnormal	255	1 Acked / 0 Unacked

Dashboard Overview

The Healthy building dashboard provides high visibility of the healthiness of a portfolio / Region / Facility and underlying zones. The Healthy Buildings Score is an index score based on the building's sensors and other devices monitoring environmental factors and occupants.

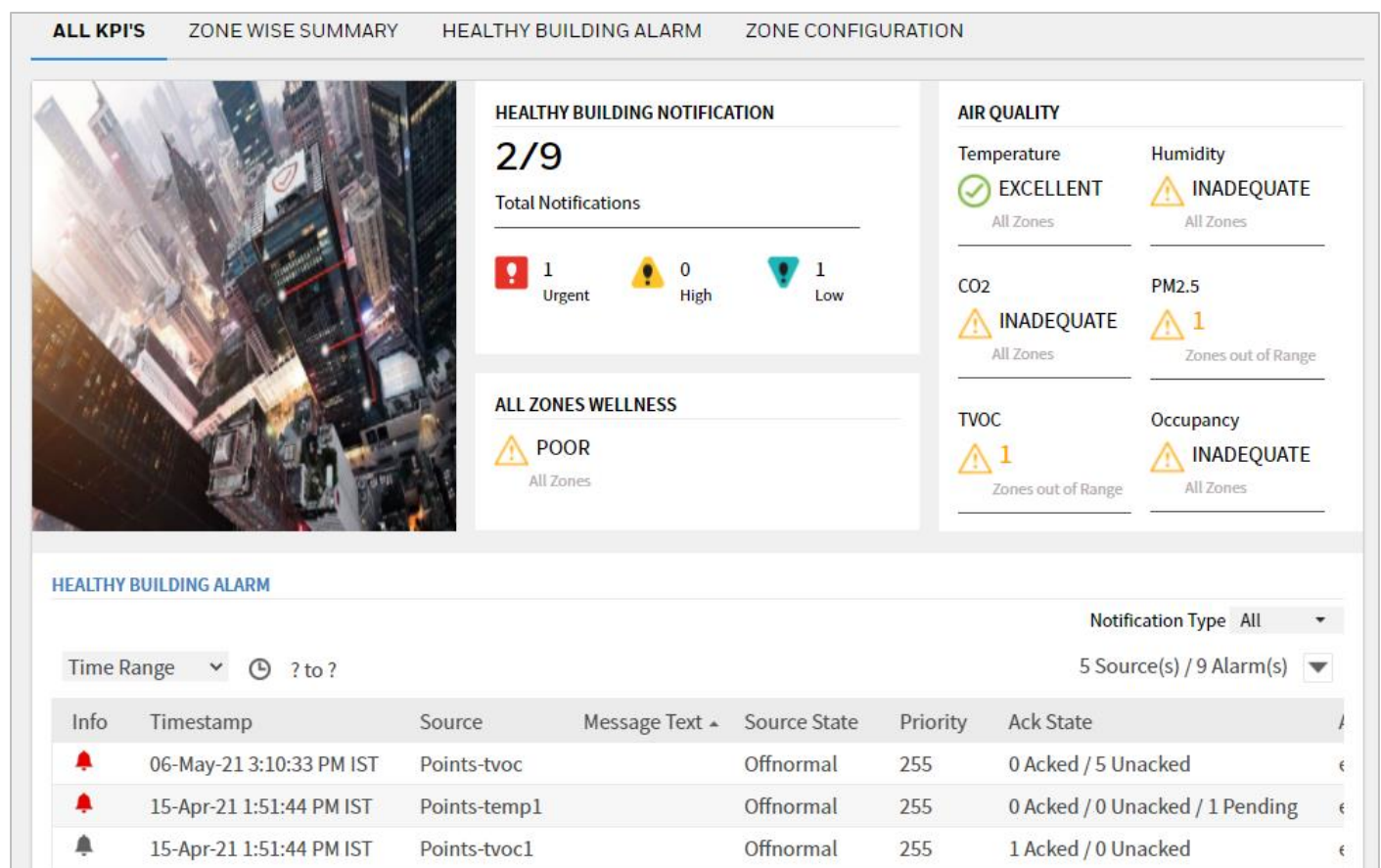
The Honeywell Intelligent Sensors, combined with powerful computing, evaluate live sensor output and historical data to provide real-time insights into the health of the building. The Healthy Building dashboard consists of four tabs:

- ALL KPI'S,
- ZONE WISE SUMMARY
- HEALTHY BUILDING ALARMS
- ZONE CONFIGURATION (For admin only)

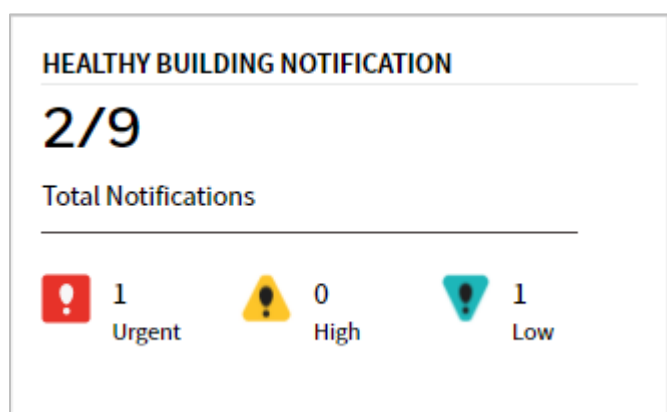
ALL KPI'S

The ALL KPI'S tab comprises of four sections:















- HEALTHY BUILDING NOTIFICATION
- AIR QUALITY
- ALL ZONEWELLNESS
- HEALTHY BUILDING ALARMS







Healthy Building Notification




The Healthy Building Notification shows total number of active out of total raised alarms. Active alarms are further classified as Urgent, High or Low as described below.

KPI Point	Alarm Category		Description
Temperature	 0 Urgent	Urgent	The point value is out of the recommended range by $\pm 4^{\circ}\text{C}$ or more.
	 0 High	High	The point value is out of the recommended range by $\pm 3^{\circ}\text{C}$ or $\pm 2^{\circ}\text{C}$.
	 0 Low	Low	If point value is out of the recommended range by $\pm 1^{\circ}\text{C}$.
Carbon Dioxide (PPM)	 0 Urgent	Urgent	The point values is greater than 1801 PPM.
	 0 High	High	The points value is in between 801- 1800.
	 0 Low	Low	The points value is in between 601- 801 PPM.
Relative Humidity	 0 Urgent	Urgent	The point value is $<10\%$ or $>90\%$.
	 0 High	High	The point value is $<20\%$ / $>80\%$ or $<30\%$ / $>70\%$.
	 0 Low	Low	The point value is $<40\%$ / $>60\%$.
Total Volatile Organic compound (TVOC) (mg/m^3)	 0 Urgent	Urgent	The point value is $>1.0\text{ mg}/\text{m}^3$.
	 0 High	High	The point value is in between 0.3 to 0.5 mg/m^3 (Poor or Fair status).
	 0 Low	Low	The points value is is in between 0.1 to 0.3 mg/m^3 (Good status).
Particulate Matter 2.5 (PM 2.5) $\mu\text{g}/\text{m}^3$	 0 Urgent	Urgent	The point value is $>0.065\text{ mg}/\text{m}^3$.
	 0 High	High	The point value is in between 0.3 to 0.5 mg/m^3 .



KPI Point	Alarm Category		Description
		Low	If point value is in between 0.1 to 0.3 mg/m ³ .
Occupancy		Urgent	If less than 70% of population is satisfied.
		High	If less than 70 to 89 % of population is satisfied.
		Low	If less than 90 to 99 % of population is satisfied.

Air Quality

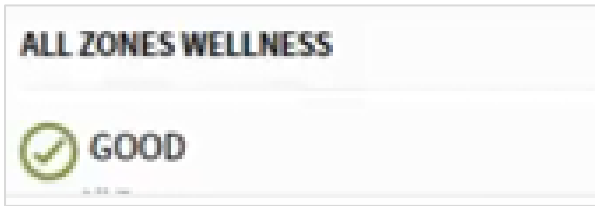
AIR QUALITY	
Temperature  EXCELLENT All Zones	Humidity  INADEQUATE All Zones
CO2  INADEQUATE All Zones	PM2.5  1 Zones out of Range
TVOC  1 Zones out of Range	Occupancy  INADEQUATE All Zones

This section provides a summary of the Indoor Air Quality (IAQ) of the building based on the zones. Air quality is calculated using the Honeywell Standard Healthy Building Algorithm.

It indicates status (Excellent, Good, Fair, Poor) of Temperature, CO2, Humidity, PM2.5, TVOC, and Occupancy KPIs.

Icon Indication	Description
	The KPI is in the recommended range. Click on the icon to see details in ZONE WISE SUMMARY tab.
	The KPI is out of recommended range. Click on the icon to see details in ZONE WISE SUMMARY tab.

All Zone Wellness



This Section provides the overall health status of the building.

The value is calculated using the wellness of the underlying zones, for example If there are three zones

Individual Zone Status Condition	ALL ZONE WELLNESS Status
If all three zones are in the Excellent Status	EXCELLENT
If two zones are in Good status and one in Excellent	GOOD
If two zones are in Good status and one in Poor	GOOD
If all zones are in Poor status	POOR
If two are in Poor status and one in Good status	POOR

Healthy Building Alarm

Alarms related to the KPI points (linked to the `asyHealthyBuildingAlarmClass`) are recorded in the alarm console and can be viewed in this area of the Healthy Building dashboard. The Healthy Building dashboard supports two type of alarm consoles:









- `honAlarmConsole`
- Niagara alarm console.

If using the `honAlarmConsole`, then HEALTHY BUILDING ALARM Section appears as shown below.

Info	Timestamp	Source	Message Text	Source State	Priority	Ack State
	06-May-21 3:10:33 PM IST	Points-tvoc		Offnormal	255	0 Acked / 5 Unacked
	15-Apr-21 1:51:44 PM IST	Points-temp1		Offnormal	255	0 Acked / 0 Unacked / 1 Pending
	15-Apr-21 1:51:44 PM IST	Points-tvoc1		Offnormal	255	1 Acked / 0 Unacked

If the HEALTHY BUILDING ALARM section, is linked to `honAlarmConsole`. you can filter by alarm type by selecting the required alarm type in **Notification Type** box or by clicking the Urgent, High and Low icon in HEALTHY BUILDING NOTIFICATION Section.

If `honAlarmConsole` is not available (not licensed), the HEALTHY BUILDING ALARM section uses the Niagara alarm console as shown below.

HEALTHY BUILDING ALARM							
Time Range   ? to ?		7 Source(s) / 7 Alarm(s) 					
Info	Timestamp	Source	Message Text	Source State	Priority ▲	Ack State	Alarm Class
	23-Mar-21 2:13:52 PM IST	co2		Normal	255	0 Acked / 1 Unacked	easyHealthyBuildingAlarmClass
	18-Mar-21 4:32:16 PM IST	new Temp		Fault	255	0 Acked / 1 Unacked	easyHealthyBuildingAlarmClass
	18-Mar-21 2:26:18 PM IST	pm2		Fault	255	0 Acked / 1 Unacked	easyHealthyBuildingAlarmClass
	18-Mar-21 2:25:57 PM IST	temp		Fault	255	0 Acked / 1 Unacked	easyHealthyBuildingAlarmClass
	17-Mar-21 2:01:13 PM IST	co2		Offnormal	255	0 Acked / 1 Unacked	Default Alarm Class

You can click on HEALTHY BUILDING ALARM in left top to view the detailed alarm console HEALTHY BUILDING ALARMS Tab.



NOTE

Alarms related to KPI points linked to any alarm class other than easyHealthyBuildingAlarmClass are recorded in alarm console but not shown in the dashboard.

Zone Wise Summary

The Zone Wise Summary tab displays the Temperature (TEMP), Humidity (HUM), Carbon dioxide (CO₂), air pollutant (PM 2.5), Total Volatile Organic Compounds (TVOC), and Occupancy (OCC) parameters for each zone in a given facility.

ALL KPI'S

ZONE WISE SUMMARY

HEALTHY BUILDING ALARM

ZONE CONFIGURATION

STATUS	ZONE	TEMP	HUM	CO2	PM2.5	TVOC	OCCUPANCY	
GOOD	Z1	22.0 °C	70.0 %RH	--	0.0 ug/m³	0 mg/m³	--	VIEW TREND
POOR	Z2	14.0 °C	10.0 %RH	1200.0 ppm	0.0 ug/m³	0.1 mg/m³	--	VIEW TREND
GOOD	Z3	21.0 °C	50.0 %RH	1200.0 ppm	0.05 ug/m³	0.8 mg/m³	--	VIEW TREND

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Columns	Description										
STATUS	<p>The Zone status is Calculated for each Portfolio/Region/Facility from sensor metric data in terms of percentage as per ASHRAE 62.1 standard. The zone status range can be EXCELLENT, GOOD, FAIR, or POOR.</p> <table> <tr> <th>Status</th><th>Description</th></tr> <tr> <td>Excellent</td><td>The percentage value is between 90% - 100%.</td></tr> <tr> <td>GOOD</td><td>The percentage value is between 75% - 89 %.</td></tr> <tr> <td>FAIR</td><td>The percentage value is between 60% - 74%.</td></tr> <tr> <td>POOR</td><td>The percentage value is between 0% - 59%.</td></tr> </table>	Status	Description	Excellent	The percentage value is between 90% - 100%.	GOOD	The percentage value is between 75% - 89 %.	FAIR	The percentage value is between 60% - 74%.	POOR	The percentage value is between 0% - 59%.
Status	Description										
Excellent	The percentage value is between 90% - 100%.										
GOOD	The percentage value is between 75% - 89 %.										
FAIR	The percentage value is between 60% - 74%.										
POOR	The percentage value is between 0% - 59%.										
Zone	The name of the zones configured in the building.										
TEMP	The Zone's temperature KPI value.										
HUM	The Zone's Humidity KPI value.										
CO ₂	The Zone's CO ₂ KPI value.										
PM _{2.5}	The Zone's PM _{2.5} KPI.										
TVOC	The Zone's TVOC KPI value.										
OCC	The Zone's Occupancy KPI value.										
VIEW TREND	<p>User can select KPI point trend for particular time period from Time range drop-down and KPIs drop-down.</p> <p>When selected KPI trend is displayed. Export allows the values to be exported to a .csv file.</p>										

Columns	Description
	<div><div>ALL KPI'S</div><div>ZONE WISE SUMMARY</div><div>HEALTHY BUILDING ALARM</div><div>ZONE CONFIGURATION</div></div> <div><div>f1r1West</div><div>Time Range</div><div>KPIs</div><div>EXPORT</div><div>BACK</div></div> <div><div><div>Temperature and Humidity (%RH)</div><div>90</div><div>80</div><div>70</div><div>60</div><div>50</div><div>40</div><div>30</div><div>20</div><div>10</div><div>0.1</div><div>0.2</div><div>0.3</div><div>0.4</div><div>0.5</div><div>0.6</div><div>0.7</div><div>0.8</div><div>0.9</div></div><div><div>Temperature</div><div>Humidity</div><div>CO2</div><div>TVO</div><div>Occupancy</div></div><div><div>TimeRange = Mon Apr 05 2021 16:00:00 GMT+05:30 / Inside Standard Time/Values 404 C3</div></div></div>

Healthy Building Alarms

Alarms related to the KPI points (linked to the `asyHealthyBuildingAlarmClass`) are recorded in the alarm console and can be viewed in this area of the Healthy Building dashboard. The Healthy Building dashboard supports two type of alarm consoles:

- `honAlarmConsole`
- Niagara alarm console.

If using the `honAlarmConsole`, then HEALTHY BUILDING ALARM Section appears as shown below.

HEALTHY BUILDING ALARM

Select Notification Type: Low

Time Range ? to ? 5 Source(s) / 5 Alarm(s)

Info	Timestamp	Source	Message Text	Source State	Priority	Ack State	Alarm Cl
<input type="checkbox"/>	19-Apr-21 10:30:02 AM IST	Points-newP		Offnormal	255	0 Acked / 1 Unacked	easyHea
<input type="checkbox"/>	14-Apr-21 5:37:50 PM IST	Points-temp		Offnormal	255	0 Acked / 1 Unacked	easyHea

Acknowledge Hyperlink Notes Silence Filter Show Recurring Show Normal Acked Alarms Review Video

If the HEALTHY BUILDING ALARM section, is linked to `honAlarmConsole`. you can filter by alarm type by selecting the required alarm type in **Select Notification Type** box.

If `honAlarmConsole` is not available (not licensed), the HEALTHY BUILDING ALARM section uses the Niagara alarm console as shown below.

HEALTHY BUILDING ALARM

Time Range ? to ? 7 Source(s) / 7 Alarm(s)

Info	Timestamp	Source	Message Text	Source State	Priority	Ack State	Alarm Class
	23-Mar-21 2:13:52 PM IST	co2		Normal	255	0 Acked / 1 Unacked	easyHealthyBuildingAlarmClass
	18-Mar-21 4:32:16 PM IST	new Temp		Fault	255	0 Acked / 1 Unacked	easyHealthyBuildingAlarmClass
	18-Mar-21 2:26:18 PM IST	pm2		Fault	255	0 Acked / 1 Unacked	easyHealthyBuildingAlarmClass
	18-Mar-21 2:25:57 PM IST	temp		Fault	255	0 Acked / 1 Unacked	easyHealthyBuildingAlarmClass
	17-Mar-21 2:01:13 PM IST	co2		Offnormal	255	0 Acked / 1 Unacked	Default Alarm Class
	17-Mar-21 1:59:28 PM IST	hum		Offnormal	255	0 Acked / 1 Unacked	Default Alarm Class
	17-Mar-21 1:58:25 PM IST	temp		Offnormal	255	0 Acked / 1 Unacked	Default Alarm Class

You can click on HEALTHY BUILDING ALARM in left top to view the detailed alarm console HEALTHY BUILDING ALARMS Tab.



NOTE

Alarms related to KPI points linked to any alarm class other than `easyHealthyBuildingAlarmClass` are recorded in alarm console.

Zone Configuration

This tab is only available for Admin users. It enables Admin users to create a new zone, edit an existing zone, and delete a zone.

Reached maximum 2 licensed zone

CREATE ZONE

Zone Name 1 3 Add Zone

TEMPERATURE
Drag and Drop points corresponding to TEMPERATURE

HUMIDITY
Drag and Drop points corresponding to HUMIDITY

CO2
Drag and Drop points corresponding to CO2

PM2.5
Drag and Drop points corresponding to PM2.5

TVOC
Drag and Drop points corresponding to TVOC

OCCUPANCY
Drag and Drop points corresponding to OCCUPANCY

ZONE MANAGER

ZONE	STATUS	TEMPERAT...	HUMIDITY	CO2	PM2.5	TVOC	OCCUPANCY	ZONE WELL...	EDIT ZONE	DELETE ZONE
Z1	<input checked="" type="checkbox"/>	GOOD	GOOD	--	EXCELLENT	EXCELLENT	--	GOOD		
Z2	<input checked="" type="checkbox"/>	INADEQUATE	POOR	FAIR	EXCELLENT	GOOD	--	POOR		
Z3	<input checked="" type="checkbox"/>	EXCELLENT	EXCELLENT	FAIR	EXCELLENT	POOR	--	GOOD		

« (1) »

Sr. No.	Elements	Description
1	Enter Zone Name*	The Zone Name
2	KPI Tiles	<p>Six smart tiles are available for KPI points.</p> <p>Tiles only accept points with facets that match the required facet for the type of tile.</p> <p>Therefore, it is necessary to define facets for the point before attempting to add a point to a tile. For example, if temperature is not having degree Celsius, Fahrenheit, Kelvin, millikelvin facet the temperature tile will not understand the KPI and an error is displayed,</p> <div> Warning! Point's Units doesn't match with KPI type </div> <p>The following KPI points are can be added to the appropriate tile Temperature, Humidity, CO2, PM2.5, TVOC, and Occupancy.</p> <p>NOTE: - Only one point can be added per tile.</p>
3	Add Zone	Add a zone.
4	Zone Manager	<p>The, status of all the KPI points associated with the zone.</p> <p>It also allows zones to be edited, deleted, and enabled/disabled.</p>

Installation Requirements and Licensing

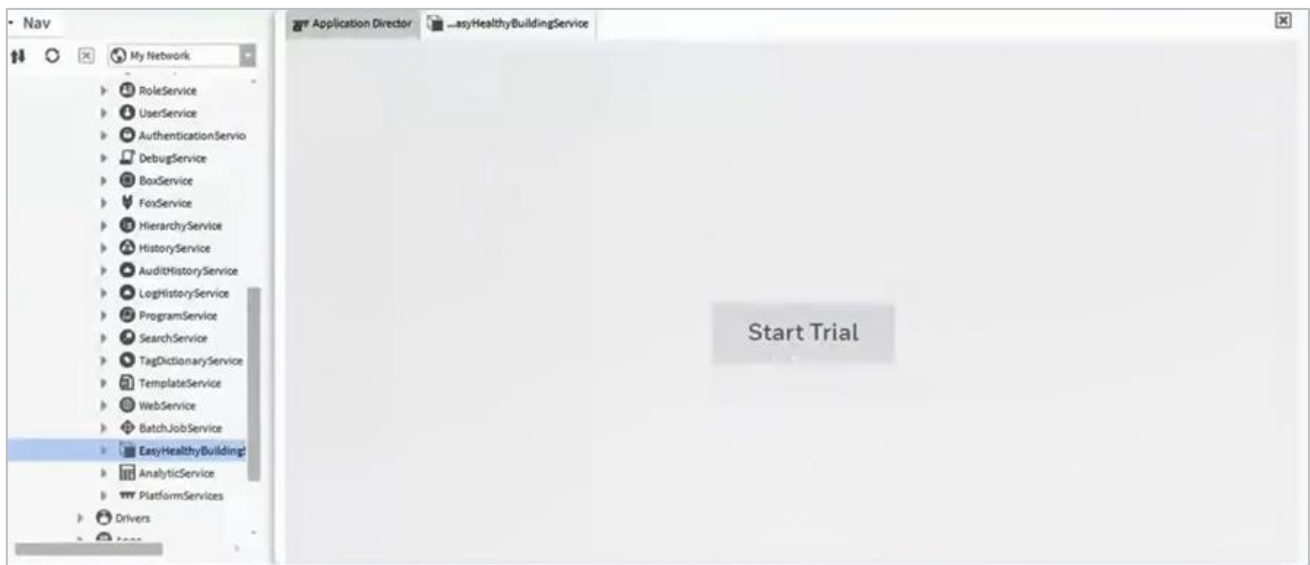
System Requirements

To use the Healthy Building dashboard Services user requires the following:

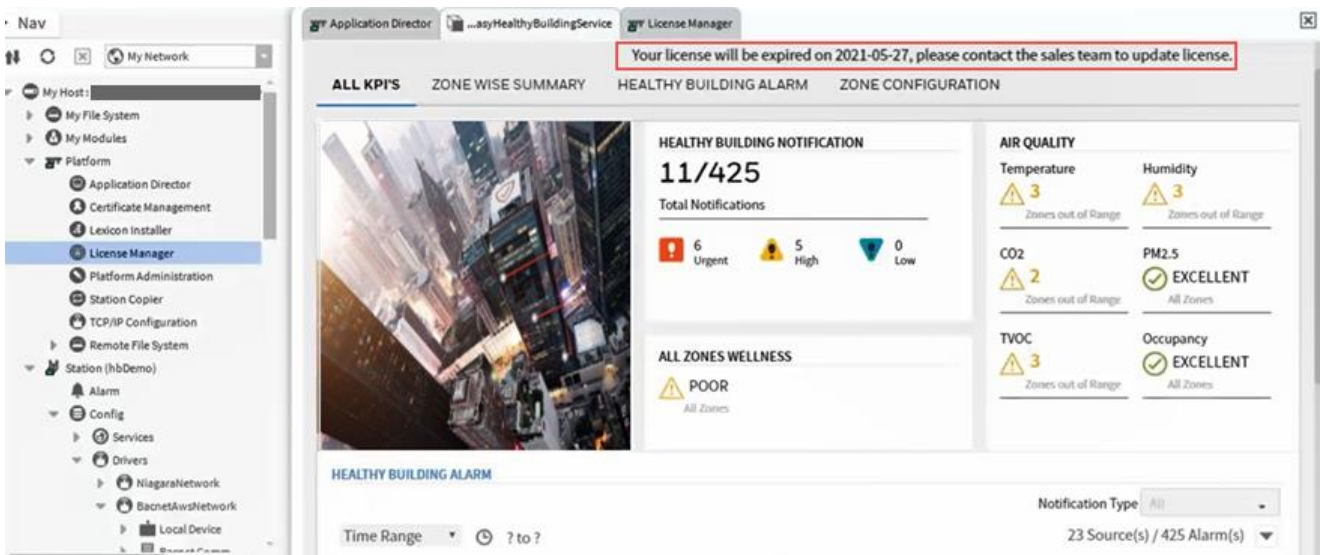
- Niagara 4.10
- Web browser
- Windows 10, 64 bit or higher version
- Healthy Buildings License

Healthy Building License

The Easy Healthy Building Dashboard comes with a trial license for 30-days. This trial feature is available only for supervisor. User need to have Healthy Building Dashboard module in the installer. Refer Install Healthy building Services for launching Healthy Building service. After launching healthy building service user will get start trial UI as shown below,



Click start trial to start trial version for 30-days. The licenses notification is seen on the dashboard as shown below. In trial version only five zones are considered for calculating the Wellness. A notification banner is seen at top right corner if user is exceeding the zone limit count.



After completion of 30-days trial, user need to purchase license. There are two types of licenses such as


- **Commercial Licenses** – These licenses are available for one year, three year and five year.
 - Small commercial License - This license has one year of expiration period with zones limitation of two.
 - Medium Commercial License - This license has three year of expiration period with zones limitation of five
- **Enterprise License** - This license has three-year expiration period with unlimited. zones.

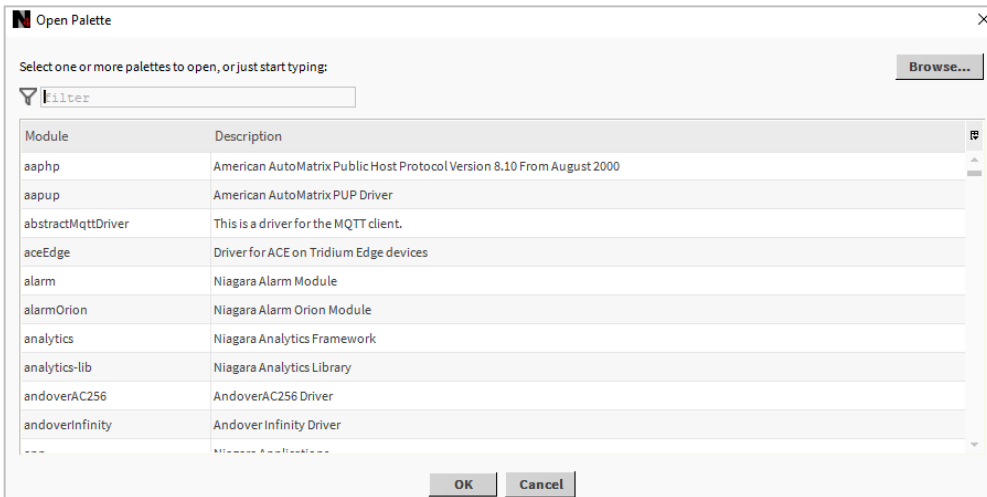
User need to consider number of zones required for building to have correct healthy building calculation. Based on number of zones suitable licenses can be selected.

Install Healthy building Services

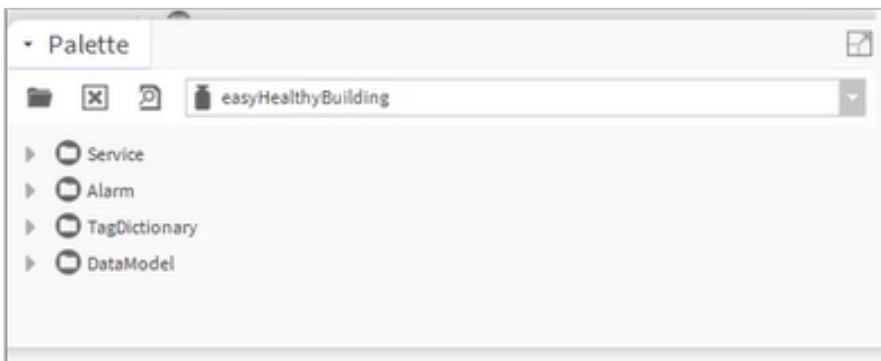
Healthy Building service and required components integrated with Supervisor Station template.

Steps to launch Healthy Building

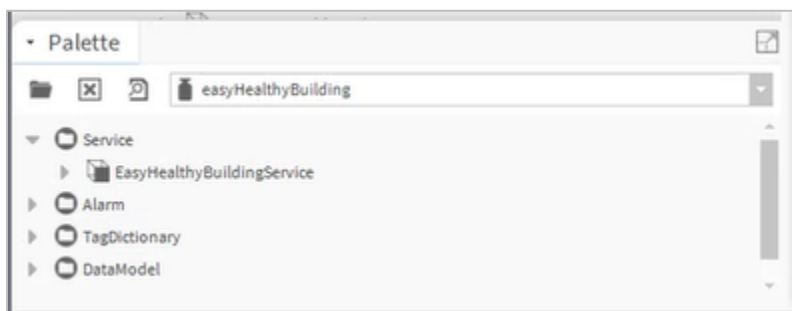
1. On the menu bar select **Window > Side Bars** and ensure **Show Side Bar** is checked.
2. Navigate to **Window > Side Bars** and select **Palette**. to open the palette pane.
3. Click . The Open Palette dialog box is displayed.



4. Enter **easyHealthyBuilding** in the filter field.



5. Select the **easyHealthyBuilding** module.
6. Click **OK**.
7. In Palette expand to **Services** folder and select **EasyHealthyBuildingService**.



8. In the **Nav** tree navigate to **Station > Config > Services**.

Drag the **EasyHealthyBuildingService** service on to the folder **Station > Config > Services**. The Healthy Building services is added to the station.

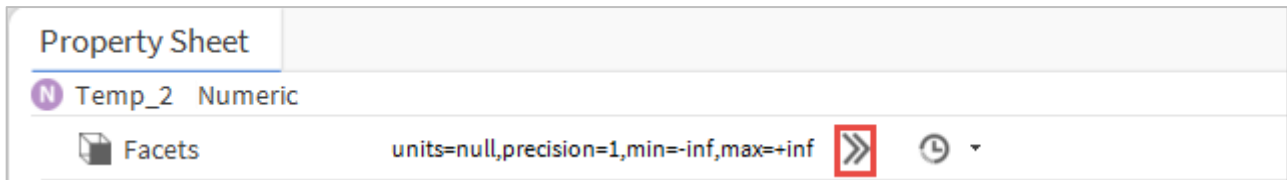
Configure Healthy Building

Configure Facets for the KPI Points

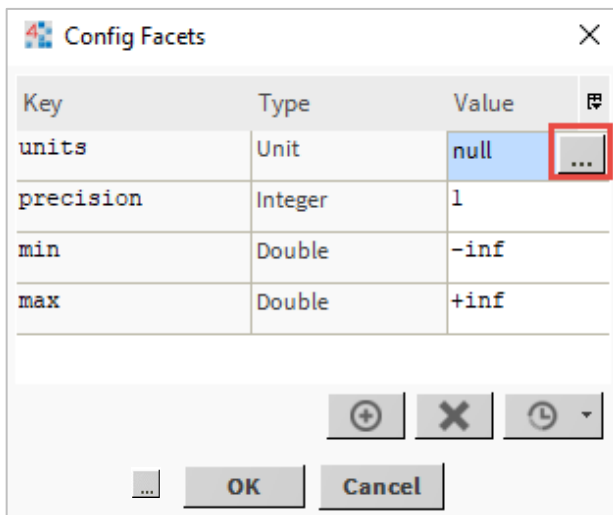
In order to use Healthy Building Dashboard, the facets for each KPI point must be configured. For example, temperature supports four type of unit such as degree Celsius, Kelvin, millikelvin, Fahrenheit.

To configure a KPI point's facet:

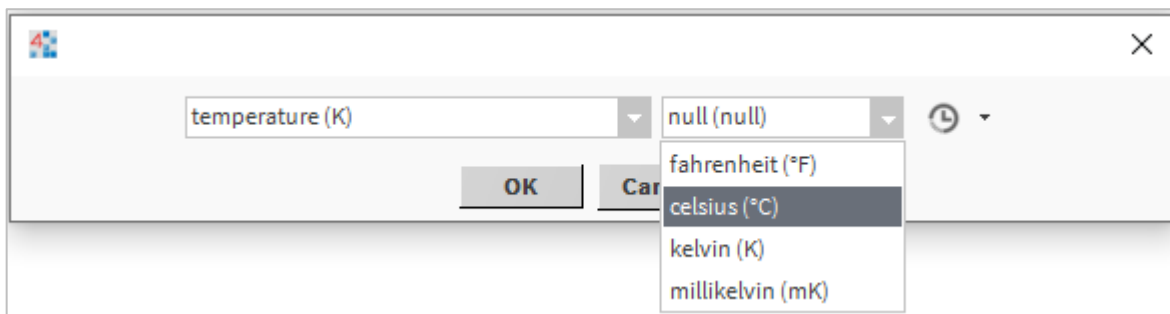
1. In the Nav tree navigate to the point and double click the point. The property sheet for the selected point is displayed.



2. Click >> next to facet. »
The Config Facets dialogue box is displayed.



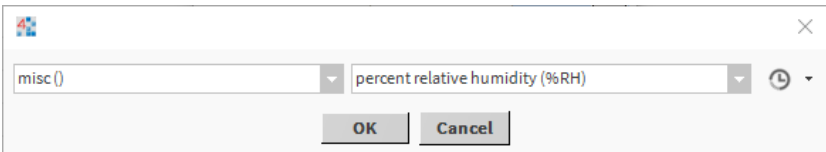
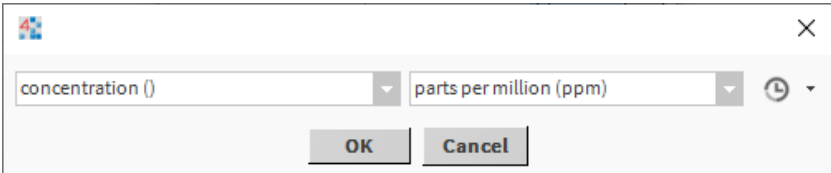
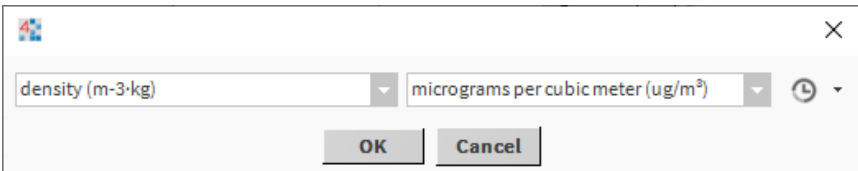
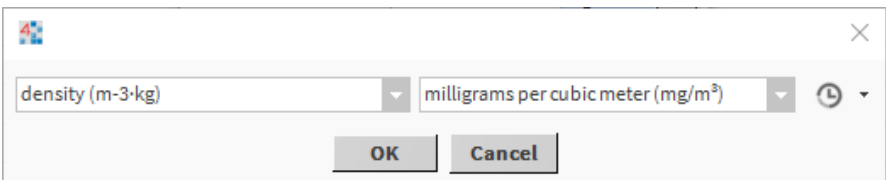
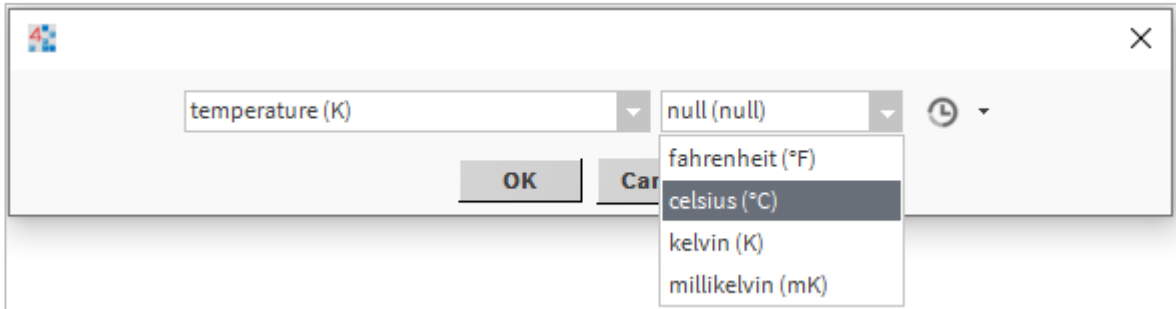
3. In the first drop-down select parameter type and then in second drop-down select the units.



4. Click **OK**.

KPI point units supported by Healthy Building

The following table provide information about the KPI point units that are supported by healthy building.

KPI Point	Units Supported by Healthy Building Dashboard
Temperature	Celsius (°C) Fahrenheit (°F) Kelvin (K) Millikelvin (mk)
Relative Humidity	Percent relative humidity %RH 
Carbon-dioxide	parts per million (ppm) 
Particulate Matter 2.5	Micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) 
Total Volatile Organic compound (TVOC)	Milligrams per Cubic meter(mg/m^3) 
	

Create a Building Zone

To create a building zone

1. Display the Healthy building Dashboard.
2. Select the **ZONE CONFIGURATION**.
3. Enter the building zone name in the **Zone Name** field.

Reached maximum 2 licensed zone

CREATE ZONE

Zone Name Add Zone

TEMPERATURE
Drag and Drop points corresponding to TEMPERATURE

HUMIDITY
Drag and Drop points corresponding to HUMIDITY

CO2
Drag and Drop points corresponding to CO2

PM2.5
Drag and Drop points corresponding to PM2.5

TVOC
Drag and Drop points corresponding to TVOC

OCCUPANCY
Drag and Drop points corresponding to OCCUPANCY

ZONE MANAGER

ZONE	STATUS	TEMPERAT...	HUMIDITY	CO2	PM2.5	TVOC	OCCUPANCY	ZONE WELL...	EDIT ZONE	DELETE ZONE
Z1	<input checked="" type="checkbox"/>	GOOD	GOOD	--	EXCELLENT	EXCELLENT	--	GOOD		
Z2	<input checked="" type="checkbox"/>	INADEQUATE	POOR	FAIR	EXCELLENT	GOOD	--	POOR		
Z3	<input checked="" type="checkbox"/>	EXCELLENT	EXCELLENT	FAIR	EXCELLENT	POOR	--	GOOD		

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4. Drag and drop the Healthy Building points from the NAV tree to the required tiles.













NOTE Correct facets must be assigned to the KPI point. If an incorrect point is assigned to a tile an error is displayed.

Enter Zone Name Add Zone Warning! Point's Units doesn't match with KPI type

5. Click **Add Zone**. The building zone is added in the **Zone Manger**.


Modifying a Building Zone

A building zone can be edited or deleted using the ZONE MANAGER.


ZONE MANAGER										
ZONE	STATUS	TEMPERAT...	HUMIDITY	CO2	PM2.5	TVOC	OCCUPANCY	ZONE WELL...	EDIT ZONE	DELETE ZONE
 Z1		GOOD	GOOD	--	EXCELLENT	EXCELLENT	--	GOOD		
 Z2		INADEQUATE	POOR	FAIR	EXCELLENT	GOOD	--	POOR		
 Z3		EXCELLENT	EXCELLENT	FAIR	EXCELLENT	POOR	--	GOOD		

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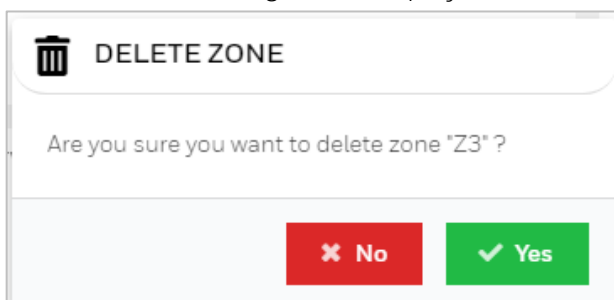
To edit a zone:

1. Display the Healthy building Dashboard.
2. Select the **ZONE CONFIGURATION**.
3. In the **ZONE MANAGER** navigate to the zone that is to be edited
4. Click 
5. Add or remove the KPI points as per the requirement.
6. Click **Save**, this action save modification.

To delete a zone:

1. Display the Healthy building Dashboard.
2. Select the **ZONE CONFIGURATION**.
3. In the **ZONE MANAGER** navigate to the zone that is to be edited
4. Click delete icon  next to the zone that is to be deleted.

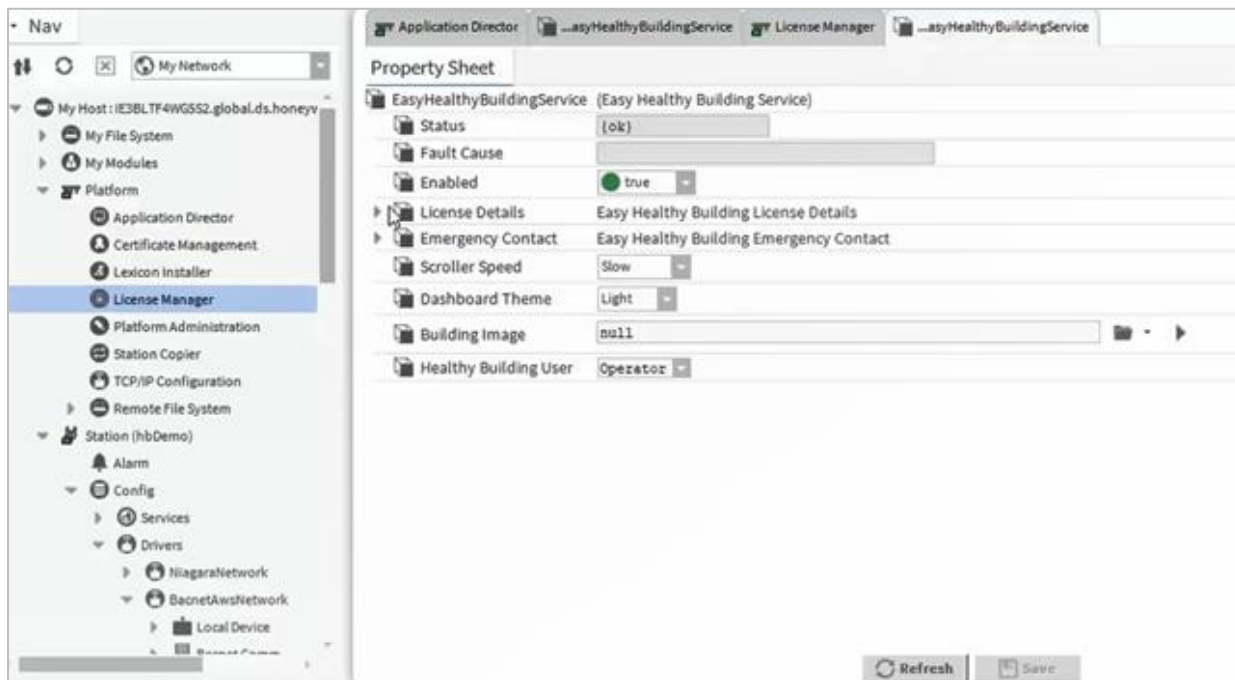
A confirmation dialog box is displayed.



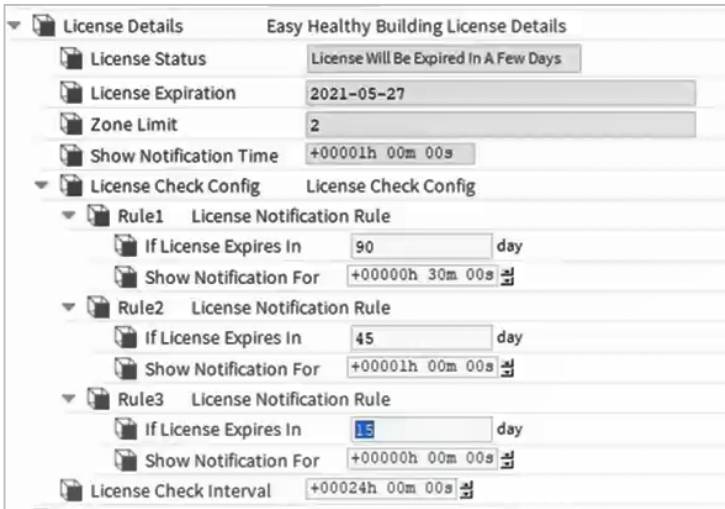
5. Click **Yes**.

Healthy Building Dashboard Properties

Admin user can view dashboard properties in EasyHealthyBuildingServices PropertySheet as shown below.



The Various Dashboard properties are explained in the below table.

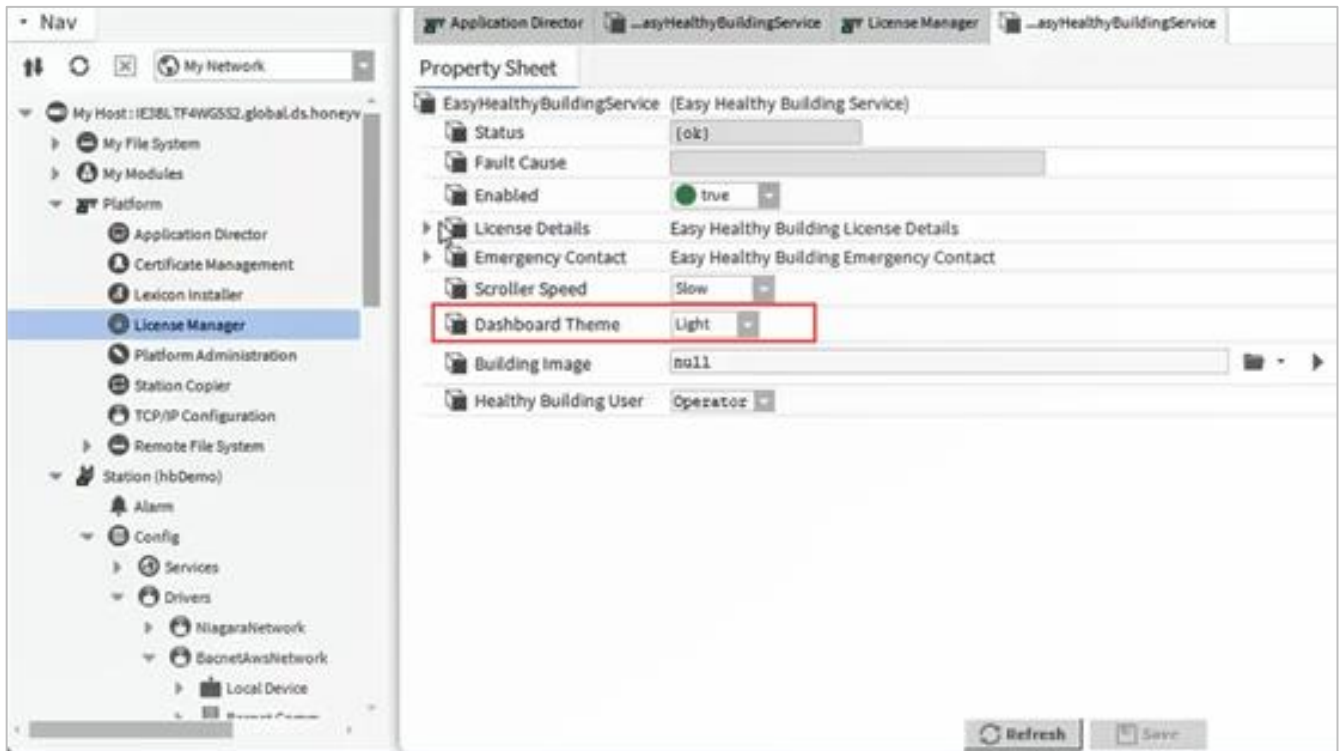
Properties	Description
Status	Shows Healthy Building status
License Details	<p>This property gives details regarding License status, License expiration, Zone limit and License configuration.</p> 
Scroll Speed	User can set the speed of scrolling notification on the dashboard.
Dashboard Theme	User can set the dashboard theme.
Building Image	User can change images that are available in station shared location as per the requirement.

Changing Dashboard Theme

Healthy Building dashboard comes in two themes, dark and light.

1. In the NAV tree open the **Station > Config > Services** folder
2. Double click **EasyHealthyBuildingService**.

The property sheet of EasyHealthyBuildingService is displayed.



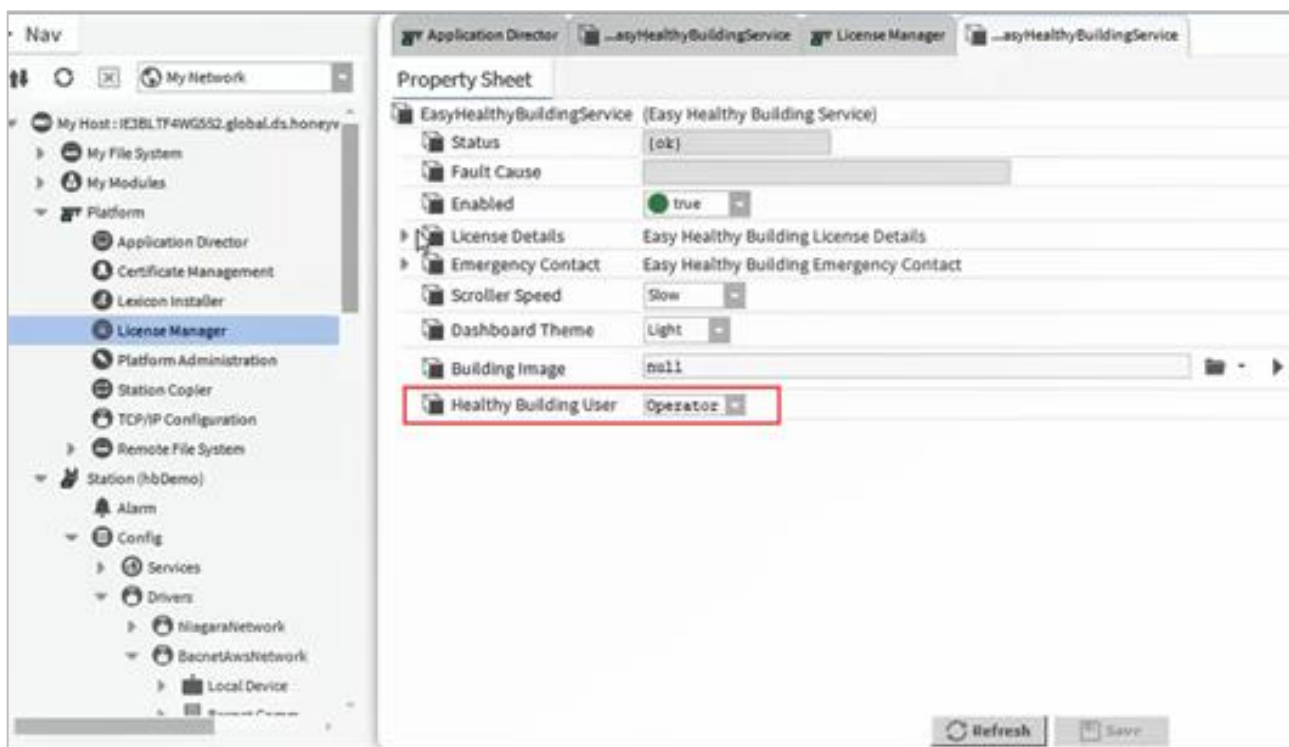
3. In the **Dashboard Theme** box select the theme. Default theme is Light Theme
4. Click **Save**.

Healthy Building User

There are two types users for Healthy Building (Admin and Non-admin).

Steps to change the healthy building user

1. In the NAV tree open the **Station > Config > Services** folder
2. Double click EasyHealthyBuildingService.
3. The property sheet of EasyHealthyBuildingService is displayed.



4. In the **Healthy Building** box to select the user.
5. Click **Save**.

FAQ's

1. **What happens behind the screens when points are drag and dropped on tiles?**

Whenever point is attached to tile, then we are tagging the point, adding History extension and alarm extension in order to get history and alarm from that KPI point.

2. **Can the system integrator per define the tags (via a Smart Tag Dictionary or via manual assigning) to efficiently add points to the zones for bulk operation?**

3. **What is the concept when I use Healthy Building in the controller?**

Only JACE or equivalent controllers are supported by Healthy Building and the concept is exactly the same as per supervisor design.

4. **How can the single dashboards from the controllers be merged on "master" dashboard level (entire site)?**

For MVO1 the different controllers have to share data to the main JACE (or equivalent) OR the supervisor, to cumulate all the sensor data to represent the Zone / Building view in Healthy Building Dashboard.

5. **Is the system database considered here to support tags and indexing?**