

# Working with Cisco Spaces: Environmental Analytics App

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# **Viewing Sensor Performance Data**

The **Overview** window displays the performance data of the active sensors available in the floors of the building. The data is displayed for the selected floor for the selected month. Use this data for your analysis.

**Step 1** In Cisco Spaces, click the **Menu** icon (**b**) and choose **Home** > **ACT Apps** > **Environmental Analytics** app tile.

Optionally, from the **Dashboard** drop-down list (left navigation pane of the Cisco Spaces **Home** window), select **Environmental Analytics**.

The Environmental Analytics window is displayed.

**Step 2** In the left navigation pane, click **Overview**.

The **Overview** window displays the sensor performance data of the active sensors available in the selected root location or the floor for the month.

- **Step 3** View the sensor data organized as per the following sections:
  - Air Quality: Displays the sensor performance data for TVOC, IAQ and PM2.5.
  - Ambient Noise: Displays the sensor performance data for ambient noise levels.
  - Humidity: Displays the sensor performance data for humidity levels.

• Temperature: Displays the sensor performance data for temperature levels.

- **Step 4** (Optional) To view the sensor data for a different floor or month:
  - a) From the Location drop-down list, select the root location or floor.
  - b) From the Month drop-down list, select another month.

**Step 5** Click the corresponding parameter configuration window to perform the required updates.

### **Configuring Environmental Analytics Parameters**

Use the **Settings** tab in the Environmental Analytics app to configure the parameters. Configure these parameters to view the sensor data in the other tabs.

Step 1In Cisco Spaces, click the Menu icon (■) and choose Home > ACT Apps > Environmental Analytics app tile.Optionally, from the Dashboard drop-down list (left navigation pane of the Cisco Spaces Home window), select

The Environmental Analytics window is displayed.

**Step 2** In the left navigation pane, click **Settings**.

**Environmental Analytics.** 

The Environmental Analytics Settings window is displayed with the telemetry metrics of all sensor devices.

Figure 1: Settings

≡ :¦listo Spaces									ଡ
👔 Environmental Analyti 🗸	Device Type Unselected sensors from	n this list will not show u	p in the telemetry c	data of all metrics.					
ENVIRONMENTAL ANALYTICS	Metric Name	Webex Sensor	AP Sensor	BLE Sensor	Wired Sensor	Wireless Sensor	Meraki Things Senso	or	
Overview	CO2	-	-	-	<ul> <li>Active</li> </ul>	-	-		
중 Air Quality	IAQ	Active	2	÷	-	-	15		
Ambient Noise	TVOC	-	-	2	Active	÷.	÷		
	PM2.5	-	-	-	-	-	-		
Ω <sub>r</sub>	Ambient Noise	Active	-	-	-	-	-		
JE Temperature	Humidity	Active	-	-	<ul> <li>Active</li> </ul>	-	-		
{ŷ} Settings	Temperature	Active	3	-	Active	÷.	-		
	TVOC TVOC's telemetry data will	be shown based on the u	nit selected here				µg/m³	PPB	
	Temperature Temperature's telemetry d	ata will be shown based or	n the unit selected he	re			Celsius	Fahrenheit	۲

**Step 3** In the **Device Type** section, view the following metrics:

• CO2

- IAQ
- TVOC
- PM2.5
- Ambient Noise
- Humidity
- Temperature

**Step 4** For each metric, view the following sensor details:

- Webex Sensor
- AP Sensor
- BLE Sensor
- Wired Sensor
- Wireless Sensor
- Meraki Things Sensor

**Note** To view the supported telemetry types, see Supported Telemetry Types, on page 3.

**Step 5** Click **Edit** against the corresponding metric name.

- Step 6Check or uncheck the check box for the required sensor and click Save.Click Cancel to discard the changes, if required.
- Step 7Click μg/m³ or PPB to set the unit for TVOC telemetry data.The selected unit is highlighted in a blue background.
- Step 8Click Celsius or Fahrenheit to set the unit for temperature telemetry data.The selected unit is highlighted in a blue background.

# **Supported Telemetry Types**

The telemetry types supported for each device type are:

Device Type	Supported Telemetry Types
Cisco Webex	Temperature
	Ambient Noise
	• Humidity
	• IAQ
Wired	Temperature
	• Humidity
	• CO2
	• TVOC
Access Point	Temperature
	• Humidity
	• CO2
	• TVOC
	• IAQ
Wireless	Temperature
	• Humidity
BLE	Temperature
	• Humidity
	• CO2
Meraki Things	• Temperature
	Ambient Noise
	• Humidity
	• TVOC
	• IAQ
	• PM2.5
	• CO2

### Table 1: Sensor and Supported Telemetry Types

### **View Air Quality Parameters**

### Before you begin

Use the Settings tab to configure the Air Quality parameters.

Step 1In Cisco Spaces, click the Menu icon (=) and choose Home > ACT Apps > Environmental Analytics app tile.Optionally, from the Dashboard drop-down list (left navigation pane of the Cisco Spaces Home window), select<br/>Environmental Analytics.

The Environmental Analytics window is displayed.

**Step 2** In the left navigation pane, click **Air Quality**.

The Air Quality window includes the tabs: IAQ, CO2, TVOC, PM2.5.

Step 3 Click the IAQ tab.

The floor data with IAQ value Below Moderate for the selected month is displayed.

Figure 2: Air Quality Parameters

≡ disco Spaces								?	<u>R</u>
Environmental Analyti				🖻 Penn1 🖂	January 2024	$\sim$			
	IAQ CO2 TVOC	PM2.5							
ENVIRONMENTAL ANALYTICS	Showing data for <b>Ja</b> r	uary 2024					Showing data for Below Moderate	0	
Overview									
금 Air Quality	Q Search Flo	or							
III Ambient Noise							TExport For January 2024		
lumidity	Floor Name  🖨	Location Path	# of Workspaces  🔶	Max. IAQ	Avg. IAQ	Min IAQ	Sensor Violation Duration		
				Poor	Good	Excellent	5m (1 Sensors)		
∬≝ Temperature	9th Floor	/ NYC1	23	FOOI	abba	LAGeneric			
ඩ් Temperature දිරා Settings	9th Floor 1 Record	/ NYC1	23	1001	abba	Show	Records:: 10∨ 1-1 < 1 >		
ြိုး Temperature လို့ခြဲ Settings	9th Floor 1 Record	/ NYC1	23	Poor		Show	Records:: 10∨ 1-1 < 1 >		
此 Temperature	9th Floor 1 Record	/ NYC1	23			Show	Records:: 10∨ 1-1 < 1 >		
JE Temperature ô Settings	9th Floor 1 Record	/ NYC1	23	1001		Show	Records:: 10∨ 1-1 < 1 >		
此 Temperature 公 Settings	9th Floor 1 Record	/ NYC1	23			Show	Records:: 10∨ 1-1 < 1 >		
JE Temperature	9th Floor 1 Record	/ NYC1	23			Show	Records:: 10 1-1 < 1 >		
∬ Temperature ∰ Settings	9th Floor 1 Record	/ NYC1	23	POOL		Show	Records:: 10∨ 1-1 < 1 >		

- a) View the following telemetry details:
  - Floor Name: Click the floor name to view the details in the Floor window. The Floor Details window is displayed.
  - Location Path: Displays the floor location path.

- # of Workspaces: Displays the number of workspaces.
- Max. IAQ: Displays the maximum IAQ level for the particular floor.
- Avg. IAQ: Displays the average IAQ level for the particular floor.
- Min IAQ: Displays the minimum IAQ level for the particular floor.
- Sensor Violation Duration: Displays the duration of sensor violation.
- b) To view IAQ details of another floor location, from the Location drop-down list, select another location.
- c) To view IAQ details of another month, from the **Month** drop-down list, select another month.

#### **Step 4** Click the **CO2** tab.

- a) Click Setup Devices to configure devices to generate CO2 measurements.
- b) After devices are set, the floor data with CO<sub>2</sub> value as *Below 1000 ppm* is displayed.
- c) View the following telemetry details:
  - Floor Name: Click the floor name to view the details in the Floor window.
  - Location Path: Displays the floor location path.
  - # of Workspaces: Displays the number of workspaces.
  - Max. CO2: Displays the maximum CO2 level for the particular floor.
  - Avg. CO2: Displays the average CO<sub>2</sub> level for the particular floor.
  - Min CO2: Displays the minimum CO<sub>2</sub> level for the particular floor.
  - Sensor Violation Duration: Displays the duration of sensor violation.
- d) To view CO2 details of another floor location, from the Location drop-down list, select another location.
- e) To view CO2 details of another month, from the Month drop-down list, select another month.

#### **Step 5** Click the **TVOC** tab.

The floor data with **TVOC** value as *Below 3000*  $\mu g/m^3$  is displayed.

- a) View the following telemetry details:
  - Floor Name: Click the floor name to view the details in the Floor window.
  - Location Path: Displays the floor location path.
  - # of Workspaces: Displays the number of workspaces.
  - Max. TVOC: Displays the maximum TVOC level for the particular floor.
  - Avg. TVOC: Displays the average TVOC level for the particular floor.
  - Min TVOC: Displays the minimum TVOC level for the particular floor.
  - Sensor Violation Duration: Displays the duration of sensor violation.
- b) To view TVOC details of another floor location, from the **Location** drop-down list, select another location.
- c) To view TVOC details of another month, from the Month drop-down list, select another month.

Step 6 Click the PM2.5 tab.

The floor data with PM2.5 value as *Below 35*  $\mu g/m^3$  is displayed.

- a) View the following telemetry details:
  - Floor Name: Click the floor name to view the details in the Floor window.
  - Location Path: Displays the floor location path.
  - # of Workspaces: Displays the number of workspaces.
  - Max. PM2.5: Displays the maximum PM2.5 level for the particular floor.
  - Avg. PM2.5: Displays the average PM2.5 level for the particular floor.
  - Min PM2.5: Displays the minimum PM2.5 level for the particular floor.
  - Sensor Violation Duration: Displays the duration of sensor violation.
- b) To view PM2.5 details of another floor location, from the Location drop-down list, select another location.
- c) To view PM2.5 details of another month, from the Month drop-down list, select another month.
- **Step 7** (Optional) Use the following options if required:
  - Search: Use this field to search for the required floors.
  - Export: Use this option to export the environmental sensor telemetry details as a comma-separated values file.
  - Show Records: Use the drop-down to select the number of records to be displayed in the tab. Use the forward and backward arrows to navigate to the other page records.
- **Step 8** Click any floor name to view the sensor performance data for the selected floor in detail. For more information, see Viewing Sensor Data in Floor View.

≡ dindh Spaces	IAQ 16 January 2024   12	2:20 AM					×
😭 Environmental Analyti 🗸	Penn1 > AMER-NO 9th Floor	N-FAB > RTP-HUB > NYC1				Average Sensors Viola Good No Violation	ation Duration N (0 SENSOR)
ENVIRONMENTAL ANALYTI( 血 Overview 중 Air Quality	AILIAQ AIL	NUARY 2024   12:20 AM				I	:⊒ ⊘
االا Ambient Noise کی Humidity	Q Search Table						
∬≝ Temperature	Spaces & Sensors  ≑	No of Devices	Device/Sensor Type	Avg. IAQ	Sensors Violation Duration	♦ Workspace Type	Capacity
ඩ් Temperature දිරියි Settings	Spaces & Sensors 🔶 HR9230	No of Devices 🔶	Device/Sensor Type 🔶 Webex	Avg. IAQ 🔶	Sensors Violation Duration No Violation	<ul> <li>Workspace Type \$</li> <li>Meeting Room</li> </ul>	Capacity 3
∬E Temperature 《한 Settings	Spaces & Sensors 🔶 HR9230 HR9266	No of Devices \$	Device/Sensor Type 🔶 Webex Webex	Avg. IAQ 🔶 Good	Sensors Violation Duration No Violation No Violation	Workspace Type      Meeting Room     Meeting Room	Capacity 3 3
ြိုး Temperature ဂို့ဦး Settings	Spaces & Sensors 🔶 HR9230 HR9266 High Bridge	No of Devices $\Leftrightarrow$ 1 1	Device/Sensor Type 🔶 Webex Webex Webex	Avg. IAQ   Good  Good  Good	Sensors Violation Duration No Violation No Violation No Violation	Workspace Type      Meeting Room     Meeting Room     Meeting Room	Capacity 3 3 5
∬E Temperature ☆ Settings	Spaces & Sensors $\Leftrightarrow$ HR9230 HR9266 High Bridge HR9334	No of Devices $\Leftrightarrow$ 1 1 1 1 1	Device/Sensor Type (\$) Webex Webex Webex Webex Webex	Avg. IAQ Good Good Good Good	Sensors Violation Duration No Violation No Violation No Violation No Violation	Workspace Type     Meeting Room     Meeting Room     Meeting Room     Meeting Room     Meeting Room	Capacity 3 3 5 3
ြိုး Temperature လို့ဦး Settings	Spaces & Sensors $\Leftrightarrow$ HR9230 HR9266 High Bridge HR9334 Goethals Bridge	No of Devices 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Device/Sensor Type     Webex  Webex  Webex  Webex  Webex  Webex  Webex	Avg. IAQ   Good  G	Sensors Violation Duration No Violation No Violation No Violation No Violation	Workspace Type      Meeting Room     Meeting Room     Meeting Room     Meeting Room     Meeting Room     Meeting Room	Capacity 3 3 5 3 9
ြိုး Temperature လို့သို့ Settings	Spaces & Sensors $\diamondsuit$ HR9230 HR9266 High Bridge HR9334 Goethals Bridge HR9316	No of Devices \$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Device/Sensor Type   Webex  Webex  Webex  Webex  Webex  Webex  Webex	Avg. IAQ  Good Good Good Good Good Good Good Goo	Sensors Violation Duration No Violation No Violation No Violation No Violation No Violation	Workspace Type     Meeting Room     Meeting Room	Capacity 3 3 5 3 9 9

#### Figure 3: Air Quality Parameters: Floor View

# **View Ambient Noise Parameters**

### Before you begin

Use the Settings tab to configure the Ambient Noise parameters.

Step 1 In Cisco Spaces, click the Menu icon (≡) and choose Home > ACT Apps > Environmental Analytics app tile. Optionally, from the Dashboard drop-down list (left navigation pane of the Cisco Spaces Home window), select Environmental Analytics.

The Environmental Analytics window is displayed.

**Step 2** In the left navigation pane, click **Ambient Noise**.

The floor data with Ambient Noise value Below 40 dBa for the selected month is displayed.

- **Step 3** In the window that is displayed, view the following telemetry details:
  - Floor Name: Click the floor name to view the details in the Floor window.
  - Location Path: Displays the floor location path.
  - # of Workspaces: Displays the number of workspaces.

- Max. Ambient Noise: Displays the maximum Ambient Noise level for the particular floor.
- Avg. Ambient Noise: Displays the average Ambient Noise level for the particular floor.
- Min Ambient Noise: Displays the minimum Ambient Noise level for the particular floor.
- Sensor Violation Duration: Displays the duration of sensor violation.
- **Step 4** (Optional) Use the following options if required:
  - Search: Use this field to search for the required floors.
  - Export: Use this option to export the environmental sensor telemetry details as a comma-separated values file.
  - Show Records: Use the drop-down to select the number of records to be displayed in the tab. Use the forward and backward arrows to navigate to the other page records.
- **Step 5** If you already clicked a floor name to view other sensor data in floor view, the **Ambient Noise** window is also displayed in **Floor View**. For more information, see Viewing Sensor Data in Floor View, on page 12.

Figure 4: Ambient Noise: Floor View

≡ disco Spaces				ଡ ା ନ
😭 Environmental Analyti 🗸	← 😂 NYC1 9th Floor	Month January 2024 🛛 🎽		Compare Floors
ENVIRONMENTAL ANALYTICS	Showing data from sensors	All (115) Webex (115)		
ි Air Quality	CURRENT MONTH - JANUARY Average	2024 Minimum	Maximum	Sensors Violation Duration ()
네. Ambient Noise	31 dB	21 dB	62 dB	298.28 HRS (39 SENSOR)
Humidity	JAN 16, 2024			
∬≝ Temperature	Average Ambient Noise levels in the fi	loor 9th Floor.		
袋 Settings	45 40 35 53 53 53 53 54 54 54 54 54 54 54 54 54 54 54 54 54			
	5			<b>3</b> 03
	12 AM		TIME	•

# **View Humidity Parameters**

#### Before you begin

Use the Settings tab to configure the Humidity parameters.

**Step 1** In Cisco Spaces, click the **Menu** icon () and choose **Home** > **ACT Apps** > **Environmental Analytics** app tile. Optionally, from the **Dashboard** drop-down list (left navigation pane of the Cisco Spaces **Home** window), select

The Environmental Analytics window is displayed.

**Step 2** In the left navigation pane, click **Humidity**.

**Environmental Analytics**.

The floor data with Humidity value Between 30-60% for the selected month is displayed.

- **Step 3** In the window that is displayed, view the following telemetry details:
  - Floor Name: Click the floor name to view the details in the Floor window.
  - Location Path: Displays the floor location path.
  - # of Workspaces: Displays the number of workspaces.
  - Max. Humidity: Displays the maximum Humidity level for the particular floor.
  - Avg. Humidity: Displays the average Humidity level for the particular floor.
  - Min Humidity: Displays the minimum Humidity level for the particular floor.
  - Sensor Violation Duration: Displays the duration of sensor violation.
- **Step 4** (Optional) Use the following options if required:
  - Search: Use this field to search for the required floors.
  - Export: Use this option to export the environmental sensor telemetry details as a comma-separated values file.
  - Show Records: Use the drop-down to select the number of records to be displayed in the tab. Use the forward and backward arrows to navigate to the other page records.
- Step 5 If you already clicked a floor name to view other sensor data in floor view, the Humidity window is also displayed in Floor View. For more information, see Viewing Sensor Data in Floor View.

#### Figure 5: Humidity: Floor View

≡ "linil" Spaces		• S
👔 Environmental Analyti 🗸	←	Compare Floors
ENVIRONMENTAL ANALYTICS	Showing data from sensors All (90) Webex (84) Wired (6)	
Overview		
ို Air Quality	CURRENT MONTH - JANUARY 2024 Average	Maximum
III Ambient Noise	31.24 % 15 %	64 % 212.65 HRS (32 SENSOR)
Humidity		
∬E Temperature	JAN 16, 2024 Average Humidity levels in the floor 9th Floor.	
ố옷 Settings	65	
- 1 200 L	60	
	55	
	50	
	3 30 45 45	
	30	
	25	
	20 12 AM	
		TIME

# **View Temperature Parameters**

### Before you begin

Use the Settings tab to configure the Temperature parameters.

Step 1In Cisco Spaces, click the Menu icon () and choose Home > ACT Apps > Environmental Analytics app tile.Optionally, from the Dashboard drop-down list (left navigation pane of the Cisco Spaces Home window), select Environmental Analytics.

The Environmental Analytics window is displayed.

**Step 2** In the left navigation pane, click **Temperature**.

The floor data with Temperature value Between 21-25°C for the selected month is displayed.

**Step 3** In the window that is displayed, view the following telemetry details:

• Floor Name: Click the floor name to view the details in the Floor window.

- Location Path: Displays the floor location path.
- # of Workspaces: Displays the number of workspaces.

- Max. Temperature: Displays the maximum Temperature level for the particular floor.
- Avg. Temperature: Displays the average Temperature level for the particular floor.
- Min Temperature: Displays the minimum Temperature level for the particular floor.
- Sensor Violation Duration: Displays the duration of sensor violation.
- **Step 4** (Optional) Use the following options if required:

Figure 6: Temperature: Floor View

- Search: Use this field to search for the required floors.
- Export: Use this option to export the environmental sensor telemetry details as a comma-separated values file.
- Show Records: Use the drop-down to select the number of records to be displayed in the tab. Use the forward and backward arrows to navigate to the other page records.
- Step 5 If you already click a floor name to view other sensor data in floor view, the Temperature window is also displayed in Floor View. For more information, see Viewing Sensor Data in Floor View.

≡ יווייוי Spaces	$\textcircled{0} \mid .$
😭 Environmental Analyti 🗸	NYC1     Month       9th Floor     January 2024
	Showing data from sensors All (90) Webex (84) Wired (6)
	CURRENT MONTH - JANUARY 2024
Air Quality	Average Minimum Maximum Sensors Violation Duration 🛈
III Ambient Noise	71 °F 54 °F 85 °F 431.18 HRS (31 SENSOR)
Humidity	
Temperature	JAN 16, 2024
	Average Temperature levels in the floor 9th Floor.
Settings	12:30 AM-12:40 AM
	Average 72 °F
	Click to view the details of a segment
	£ 74
	72
	2 70
	68
	66
	12.44

# **Viewing Sensor Data in Floor View**

You can view the sensor data in floor view for Air Quality, Ambient Noise, Humidity, and Temperature.

**Step 1** In Cisco Spaces, click the **Menu** icon (**b**) and choose **Home** > **ACT Apps** > **Environmental Analytics** app tile.

Optionally, from the **Dashboard** drop-down list (left navigation pane of the Cisco Spaces **Home** window), select **Environmental Analytics**.

The Environmental Analytics window is displayed.

- **Step 2** In the left navigation pane, click any sensor data of your choice.
- **Step 3** In the sensor detail window that is displayed, click the floor name.

The Floor View window is displayed with the sensor performance data for the selected floor for the current month.

By default, the **All** option is selected and the window displays sensor performance data from all devices. Click **Webex** if you want to view the sensor performance data from Cisco Webex devices.

- **Step 4** For the selected sensor data, the following data is displayed in graphical format:
  - Current Month: Displays the information about sensors that violated the optimal range for a specific time. Click the graph to view the sensor data in detail.
  - Average levels in the floor: Displays the average levels in the selected floor in graphical format. Click the time range to view additional information. You can again click the graphical format to view the details of the segment.
  - Daily average, min & max levels in floor: Displays the daily average, minimum and maximum levels in the selected floor in graphical format. Click the time range to view additional information.
  - Cumulative Time in Violation: Displays the cumulative time in violation in graphical format.
  - By Hour of the Day: Displays the sensor performance data by an hour of the day.
  - By Day of the Week: Displays the sensor performance data by day of the week.

For Air Quality sensor data, the following window is displayed:

Figure	7: Air	Quality	Sensor	Data
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≡ "tisco" Spaces	IAQ 16 January 2024   12	:20 AM					×
👔 Environmental Analyti 🗸	Penn1 > AMER-NOI 9th Floor	N-FAB > RTP-HUB > NYC1				Average Sensors Viola Good No Violation	ition Duration N (0 SENSOR)
ENVIRONMENTAL ANALYTIC	Showing data for 16 Jan All IAQ $\sim$ 6	UARY 2024   12:20 AM Sensors				l	;⊒ ⊘
승 Air Quality							
u∥lu Ambient Noise	Q Search Table						
lumidity							
∬≝ Temperature	Spaces & Sensors  🜲	No of Devices	Device/Sensor Type	Avg. IAQ  \$	Sensors Violation Duration	⇔ Workspace Type ⇒	Capacity
දිරිූි Settings	HR9230	1	Webex	Good	No Violation	Meeting Room	3
	HR9266	1	Webex	Good	No Violation	Meeting Room	3
	High Bridge	1	Webex	Good	No Violation	Meeting Room	5
	HR9334	1	Webex	Good	No Violation	Meeting Room	3
	Goethals Bridge	1	Webex	Good	No Violation	Meeting Room	9
	HR9316	1	Webex	Good	No Violation	Meeting Room	5
	6 Records					Show Records:: 10 🗸 1-6	

For Ambient Noise sensor data, the following window is displayed:

#### Figure 8: Ambient Noise Sensor Data

≡ :¦lu:ll: Spaces	Ambient Noise 16 Jan	uary 2024   12:20 AM					×
篖 Environmental Analyti 🗸	Penn1 > AMER-NOT 9th Floor	N-FAB > RTP-HUB > NYC1				Average Sensors Viol 30 dB 10m (2 SENS	ation Duration ORS)
ENVIRONMENTAL ANALYTIC [값 Overview 응 Air Quality	All Ambient Noise	UARY 2024   12:20 AM All Sensors 47					:≣ 0
IIII Ambient Noise	Q Search Table						
∬ Temperature	Spaces & Sensors  🗢	No of Devices  🗢	Device/Sensor Type	Avg. Ambient Noise	Sensors Violation Duration	♦ Workspace Type	Capacity
⟨Ô} Settings	Whitestone Bridge	1	Webex	31 dB	No Violation	Meeting Room	14
	NYC1-9-PATH	1	Webex	30 dB	No Violation		
	HR9230	1	Webex	25 dB	No Violation	Meeting Room	3
	JFK	1	Webex	31 dB	No Violation	Meeting Room	1
	Throgs Neck Bridge	1	Webex	27 dB	No Violation	Meeting Room	7
	Bayonne Bridge	1	Webex	37 dB	No Violation	Meeting Room	3
	NYC1-9-MOBILE D	1	Webex	31 dB	No Violation	-	. 😍

### For Humidity sensor data, the following window is displayed:

#### Figure 9: Humidity Sensor Data

≡ "listo" Spaces	Humidity 16 January 202	4   12:10 AM					$\times$
👔 Environmental Analyti 🗸	Penn1 > AMER-NON 9th Floor	I-FAB > RTP-HUB > NYC1				Average Sensors Viola 24.12 % 10m (2 SENSO	tion Duration DRS)
ENVIRONMENTAL ANALYTIC [近 Overview 응 Air Quality	SHOWING DATA FOR 16 JANU All Humidity 17 1	I Sensors 7				I	∷
III Ambient Noise	Q Search Table						
Humidity							
∬≝ Temperature	Spaces & Sensors  🖨	No of Devices $\ \Leftrightarrow$	Device/Sensor Type	Avg. Humidity 🔶	Sensors Violation Duration	Workspace Type	Capacity
ြး Temperature လို့ Settings	Spaces & Sensors 🔶 Whitestone Bridge	No of Devices  🔶	Device/Sensor Type 🔶 🔶 Webex	Avg. Humidity 🔶	Sensors Violation Duration 5m	<ul> <li>Workspace Type</li> <li>Meeting Room</li> </ul>	Capacity
ੁੀਂ≣ Temperature ਨ੍ਰਿੰ}ੇ Settings	Spaces & Sensors 🔶 Whitestone Bridge HR9246	No of Devices $\Leftrightarrow$ 1	Device/Sensor Type 🔶 Webex Webex	Avg. Humidity \$	Sensors Violation Duration 5m No Violation	Workspace Type     Meeting Room     Meeting Room	Capacity 14 3
∬E Temperature ကြိုး Settings	Spaces & Sensors 🔶 Whitestone Bridge HR9246 Kosciuszko Bridge	No of Devices \$	Device/Sensor Type 🔶 Webex Webex Webex	Avg. Humidity 18.5 % 16 % 16.5 %	Sensors Violation Duration 5m No Violation 5m	<ul> <li>Workspace Type</li> <li>Meeting Room</li> <li>Meeting Room</li> <li>Meeting Room</li> </ul>	Capacity 14 3 9
∬E Temperature	Spaces & Sensors 🔶 Whitestone Bridge HR9246 Koscluszko Bridge Queensboro Bridge	No of Devices \$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Device/Sensor Type 🔶 Webex Webex Webex Webex	Avg. Humidity 18.5 % 16 % 16.5 % 21 %	Sensors Violation Duration 5m No Violation 5m No Violation	<ul> <li>Workspace Type</li> <li>Meeting Room</li> <li>Meeting Room</li> <li>Meeting Room</li> <li>Meeting Room</li> <li>Meeting Room</li> </ul>	Capacity 14 3 9 7
∬ा Temperature ∰ Settings	Spaces & Sensors 🔶 Whitestone Bridge HR9246 Koscluszko Bridge Queensboro Bridge Brooklyn Bridge	No of Devices $\Leftrightarrow$ 1 1 1 1 1 1 1	Device/Sensor Type Webex Webex Webex Webex Webex	Avg. Humidity 18.5 % 16 % 16.5 % 21 % 15 %	Sensors Violation Duration 5m No Violation 5m No Violation No Violation	Workspace Type     Meeting Room     Meeting Room     Meeting Room     Meeting Room     Meeting Room     Meeting Room	Capacity 14 3 9 7 14
∬ा Temperature ∰ Settings	Spaces & Sensors 🔶 Whitestone Bridge HR9246 Kosciuszko Bridge Queensboro Bridge Brooklyn Bridge Manhattan Bridge	No of Devices         \$           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	Device/Sensor Type \$ Webex Webex Webex Webex Webex Webex Webex Webex	Avg. Humidity 18.5 % 16.5 % 16.5 % 21 % 15 % 18 %	Sensors Violation Duration 5m No Violation 5m No Violation No Violation No Violation	<ul> <li>Workspace Type</li> <li>Meeting Room</li> </ul>	Capacity 14 3 9 7 14 3 14

For Temperature sensor data, the following window is displayed:

Working with Cisco Spaces: Environmental Analytics App

Figure 1	10: Te	mperature	Sensor	Data
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≡ ''listo' Spaces	Temperature 16 January 2024   12:20 AM X						$\times$
篖 Environmental Analyti 🗸	Penn1 > AMER-NON-FAB > RTP-HUB > NYC1 9th Floor					Average Sensors Viola 72 °F 10m (11 SENS	ation Duration SORS)
ENVIRONMENTAL ANALYTIC	SHOWING DATA FOR 16 JAN	UARY 2024   12:20 AM				1	∷⊘
Overview	All Temperature	All Sensors 40					
တို Air Quality							
네마 Ambient Noise	Q Search Table						
lumidity							
0-							
JE Temperature	Spaces & Sensors  🔶	No of Devices  ≑	Device/Sensor Type	Avg. Temperature	Sensors Violation Duration	$\Leftrightarrow$ Workspace Type $\Leftrightarrow$	Capacity
JE Temperature 슋 Settings	Spaces & Sensors 🔶 Whitestone Bridge	No of Devices 🔶	Device/Sensor Type 🔶 Webex	Avg. Temperature 🔶	Sensors Violation Duration 5m	<ul> <li>Workspace Type</li> <li>Meeting Room</li> </ul>	Capacity
ුළි Temperature ද්රී Settings	Spaces & Sensors $\Leftrightarrow$ Whitestone Bridge QR9247	No of Devices \$	Device/Sensor Type 🔶 🔶 Webex 🛛 Webex	Avg. Temperature \$	Sensors Violation Duration 5m No Violation	Workspace Type      Meeting Room	Capacity 14 1
ුළි Temperature දිවූ Settings	Spaces & Sensors 🔶 Whitestone Bridge QR9247 HR9230	No of Devices \$ 1 1 1 1	Device/Sensor Type 🔶 Webex Webex Webex	Avg. Temperature         \$           65 * F         \$           69 * F         \$           70 * F         \$	Sensors Violation Duration 5m No Violation No Violation	Workspace Type      Meeting Room     Meeting Room     Meeting Room	Capacity 14 1 3
년 Temperature 役 Settings	Spaces & Sensors $\diamondsuit$ Whitestone Bridge QR9247 HR9230 HR9246	No of Devices \$	Device/Sensor Type 🔶 Webex Webex Webex Webex	Avg. Temperature         \$           65 * F         \$           69 * F         \$           70 * F         \$	Sensors Volation Duration 5m No Violation No Violation No Violation	Workspace Type     Workspace Type     Meeting Room     Meeting Room     Meeting Room     Meeting Room	Capacity 14 1 3 3
년 Temperature 값 Settings	Spaces & Sensors 🔶 Whitestone Bridge QR9247 HR9230 HR9246 Throgs Neck Bridge	No of Devices \$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Device/Sensor Type 🔶 Webex Webex Webex Webex Webex	Avg. Temperature         \$           65 * F         \$           69 * F         \$           70 * F         \$           67 * F         \$	Sensors Violation Duration 5m No Violation No Violation No Violation 5m	Workspace Type     Workspace Type     Meeting Room     Meeting Room     Meeting Room     Meeting Room     Meeting Room     Meeting Room	Capacity 14 1 3 3 3 7
년 Temperature	Spaces & Sensors (*) Whitestone Bridge QR9247 HR9230 HR9246 Throgs Neck Bridge NYC1-9-Hotdesk-33	No of Devices \$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Device/Sensor Type \$ Webex Webex Webex Webex Webex Webex Webex Webex	Avg. Temperature         \$           65 * F         \$           69 * F         \$           70 * F         \$           67 * F         \$           68 * F         \$	Sensors Volation Duration Sm No Violation No Violation No Violation Sm No Violation	Workspace Type     Workspace Type     Meeting Room     Meeting Room     Meeting Room     Meeting Room     Meeting Room     -	Capacity 14 1 3 3 7 3

Step 5To view the sensor data in Rich Map view, click the Rich Map (The Floor View is displayed in Rich Maps.

#### Figure 11: Rich Maps View



- **Step 6** (Optional) To download the sensor metric as a CSV file, click **Export as CSV**.
- **Step 7** Click **Compare Floors** to open the **Floor Comparison** window to view the floor comparison data. For more information, see Compare Floors, on page 17.
- **Step 8** Click the Close ( $\times$ ) icon to close the window.

# **Compare Floors**

**Step 1** In the Cisco Spaces dashboard, click the **Menu** icon () and choose **Home**.

Optionally, from the **Dashboard** drop-down list (left navigation pane of the Cisco Spaces **Home** window), select **Environmental Analytics**.

The Environmental Analytics window is displayed.

- **Step 2** From the left navigation pane, select any sensor data of your choice.
- **Step 3** In the sensor detail window that is displayed, click the floor name.

The **Floor View** window is displayed with the sensor performance data. The data for the current month is displayed for the selected floor. By default, the **All** option is selected and the window displays sensor performance data from all devices. Click **Webex** if you need to display the sensor performance data from Cisco Webex devices.

### Step 4 In the Floor View window, click Compare Floors.

The Floor Comparison pop-up window is displayed. By default, All is selected. Click Webex to view sensor data from Cisco Webex devices.

#### Figure 12: Floor Comparison



- **Step 5** View the floor comparison data from all the sensors. The floor comparison details such as average sensor trend and sensors in violation for the selected month is displayed.
- **Step 6** Hover your cursor over the graph to view additional sensor details.
- **Step 7** (Optional) From the **Month** drop-down list, select a different month to view the floor comparison data.