Overview of Cisco Spaces: Environmental Analytics App

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Overview of Environmental Analytics App

The Cisco Spaces Environmental Analytics app helps you optimize your building's performance using indoor environment insights or metrics data from the available sensors. These insights are derived from sensors integrated into the networking and collaboration infrastructure throughout your buildings within your network.

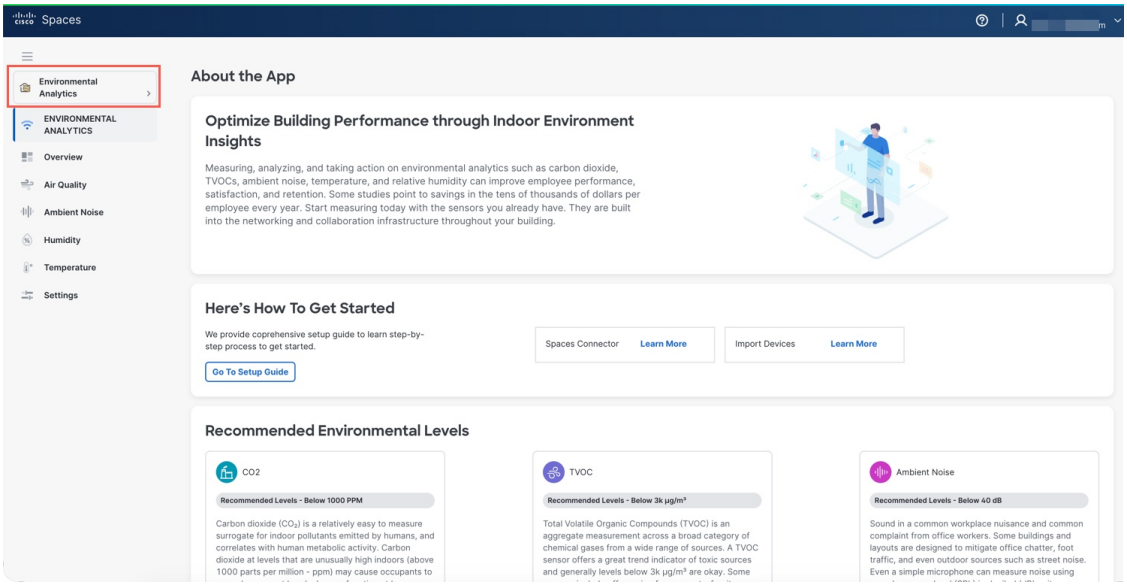
Use the Environmental Analytics app to measure and analyze the environmental analytics metrics data such as carbon dioxide, Total Volatile Organic Compound (TVOCs), ambient noise, temperature, and relative humidity and take the required corrective actions.

In a Day 0 configuration scenario, the Environmental Analytics **Overview** window is displayed with information about the recommended environmental levels. For more information, see Recommended Environmental Levels.

The Environmental Analytics app presents the following environment insight views:

- **Floor View**: Provides insights of your building's performance with historical data and trends about specific hours and days.
- **Floor Comparison**: Provides information about multiple floors ranked by their performance whether averages or cumulative time spent out of the ideal range.

Figure 1: Environmental Analytics



Prerequisites for the Environmental Analytics App

To use the Environmental Analytics app, you must:

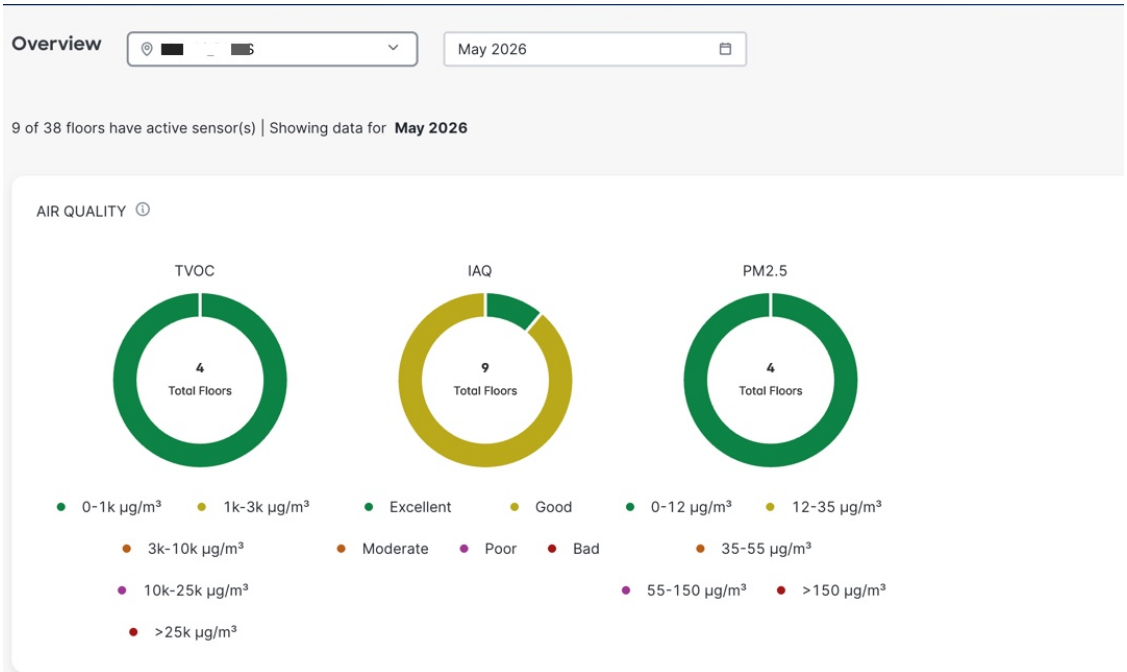
- Import the sensor devices to gather the Environmental Analytics metrics data. Click **Import Devices** to open the **Import Devices for Environmental Metrics** window to import sensor devices from any of the following options:
  - Cisco Webex Control Hub
  - Meraki Things
  - Cisco Catalyst Wireless Access Points (9136/9166): To use Cisco Catalyst Wireless Access Points (9136/9166) for Environmental Analytics app, you must integrate with the Catalyst Center, import maps, or use Cisco Prime Infrastructure map imports.
  - Any third-party loT Sensors
- Have an active Cisco Spaces: Connector available. For more information, see Cisco Spaces: Connector 3 Configuration Guide.

In the Environmental Analytics app **Home** page, a green tick mark against each of the above-mentioned items indicates the successful fulfillment of the corresponding prerequisite.

Features of the Environmental Analytics App

The **Overview** window displays the active sensors telemetry metrics for a selected location (all floors under the parent level) during a month.

Figure 2: Overview



The **Overview** window displays the performance data received from the active sensors in graphical format in the following feature sections:

- **Air Quality**: Indoor Air Quality (IAQ) score, index, and other recommended air quality levels for the floors with active sensors. This section displays the following telemetry data:
  - CO_2
  - TVOC
  - IAQ
  - Particulate Matter (PM) 2.5
- **Ambient Noise**: Floor noise levels as per the recommendations.
- **Humidity**: Humidity level of the floor.
- **Temperature**: Temperature level of the floor.

To view the overview data for another floor or month:

1. From the **Location** drop-down list, select a location (building or a campus).
2. From the **Calendar** drop-down list, select another month.

Click the icon to open the respective feature section to view additional parameters.

Recommended Environmental Levels

Table 1: Recommended Environmental Levels

Environmental Metrics	Recommended Levels
Carbon dioxide (CO_2)	Below 1000 PPM
Total Volatile Organic Compounds (TVOC)	Below 3k µg/m³
Ambient Noise	Below 40 dB
Humidity	Between 30% - 60%
Temperature	Between 21°C - 25°C
Particulate Matter (PM2.5)	Below 35 µg/m³
Indoor Air Quality (IAQ)	Below Moderate