



## AP as a Sensor

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You can now configure the following access points as sensors:

- Cisco Catalyst 9136 Series Access Points
- Cisco Catalyst Wireless 9162I Series Access Points
- Cisco Catalyst Wireless 9164I Series Access Points
- Cisco Catalyst Wireless 9166I Series Access Points

Once configured as a sensor, you can collect telemetry data using this AP. The following sensor values can be configured:

- Temperature
- Humidity
- Total volatile organic compound
- Ethanol
- Carbon Dioxide
- Indoor air quality

## Enabling or Disabling an AP Sensor

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**Step 1** Navigate to Cisco Spaces: IoT Service > **Device Management** > **Devices** > **AP Beacons** > **Sensor**.

Figure 1: AP as a Sensor

The screenshot shows the Cisco DNA Spaces interface for configuring AP Beacons. The main content area displays a summary of AP Beacons for all campuses, including counts for AP Sensors, IBeacon, Eddystone UID, Eddystone URL, Scan Mode, and Dual Mode. Below the summary is a table listing AP Beacons with columns for Mac Address, AP Name, BLE status, AP Model, Profile Type, Label, Location, BLE Firmware Version, and AP Beacon Channel Last Heard. A sidebar menu is visible on the left, showing IoT Services, IoT Gateways, Device Management, and Device Monitoring.

Mac Address	AP Name	BLE	AP Model	Profile Type	Label	Location	BLE Firmware Version	AP Beacon Channel Last Heard	WLC
00:a3:8e:43:e4:20	AP18151.7588	Enabled	AIR-AP18151-B-K9	Scan	-	System Campus->Bldg-20->Sensor->Sensor-Floor	2.7.16	Apr 29th, 2022 09:14:04 PM a month ago	
b0:90:7e:99:cf:20	AP18321.5828	Enabled	AIR-AP18321-A-K9	Scan	-	-	2.7.19	Oct 21st, 2021 04:12:16 AM 7 months ago	
00:14:39:20:68	AP18521.2068	Enabled	AIR-AP18521-B-K9	Scan	-	-	2.7.19	Oct 21st, 2021 04:12:16 AM 7 months ago	

**Step 2** Click the AP that you want to configure as a sensor.  
The AP Beacons details page opens.

**Step 3** In the **Settings** area, click **Sensor** to enable or disable the AP as a sensor.

Figure 2: Enabling or Disabling AP as a Sensor

The screenshot displays the configuration page for an AP Beacon with MAC address 10:f9:20:fd:e0:a0. At the top, there are tabs for 'Sensor', 'BLE', 'Scan', 'Transmit', and 'Dual'. The 'BLE' tab is currently selected. Below the tabs, the page shows the current date and time (Jun 2nd, 2022 10:36:19 AM) and options to 'Refresh' and 'Sync'.

The main content is divided into two sections: 'AP Information' and 'Settings'.

**AP Information:** This section provides a detailed overview of the beacon's status and configuration. Key details include:
 

- Mac Address:** 10:f9:20:fd:e0:a0
- Floor Beacon Channel Status:** DOWN (indicated by a red dot)
- Name:** AP9166.DD30
- Description:** Cisco Catalyst 9166 Series Access Point
- AP Model:** CW9166I-B
- AP IP:** 25.25.101.139
- WLC IP:** 10.22.212.150
- IOx App Name:** -
- IOx App Version:** -
- Label:** -
- SW Version:** 17.9.0.124
- BLE MAC:** 90:35:ea:fc:f3:41
- BLE Mode:** Scan
- BLE Type:** Base
- BLE Firmware version:** 3.2.4
- Location:** System Campus->SMU-ewlc->smu-ewlc
- Ethernet Mac:** cc:9c:3e:f4:dd:30
- Floor Beacon Channel Last Heard:** Jun 1st, 2022 12:08:58 PM (a day ago)
- AP Beacon Channel Last Heard:** May 26th, 2022 10:14:04 PM (7 days ago)
- IOx App Channel Last Heard:** -
- Zigbee Capable:** Yes (indicated by a green checkmark)
- IOx Capable:** Yes (indicated by a green checkmark)
- BLE Capable:** Yes (indicated by a green checkmark)
- USB Capable:** Yes (indicated by a green checkmark)

**Settings:** This section allows for the configuration of the beacon's sensor capabilities. A red box highlights this area.
 

- Sensor:** A toggle switch is currently turned off.
- BLE:** A toggle switch is currently turned on.
- BLE mode:** Three options are available:
  - Scan:** Scans for nearby bluetooth devices. This option is selected, indicated by a green checkmark.
  - Transmit:** Only does beacon transmitting. Status: Enable.
  - Dual:** Does both Scan & Transmit. Status: Enable.

At the bottom of the settings section, there is a 'Sensor Information' link. A 'Spaces LaunchPad' banner is visible in the bottom right corner, promoting COVID-19 apps and use cases.

## Viewing Sensor Information

You can view sensor information from the **Sensor Information** area.

Figure 3: Viewing Sensor Information

