



# Location Accuracy

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## Location Accuracy

You can perform a location accuracy test for a single device with multiple location points. You can use the Location Accuracy Test tool to validate the placement and number of access points (APs), for a good location accuracy experience. The Location Accuracy tool provides you with the ability to quantify the location accuracy for a specific location. During the Location Accuracy test, the administrator uses a wireless client device to measure the difference between the actual and the calculated location of a device.

## Restrictions for Location Accuracy

- The display refresh time is three seconds and cannot be reconfigured.
- You cannot run this location accuracy test on APs with external antennas. However, location detection is supported on these APs.
- You cannot reconfigure the display refresh time. The display refresh time is three seconds.
- The sample count displayed during a location accuracy test is a best-effort estimate of location values collected during back end processes. This sample count may differ from actual samples captured during an accuracy test.

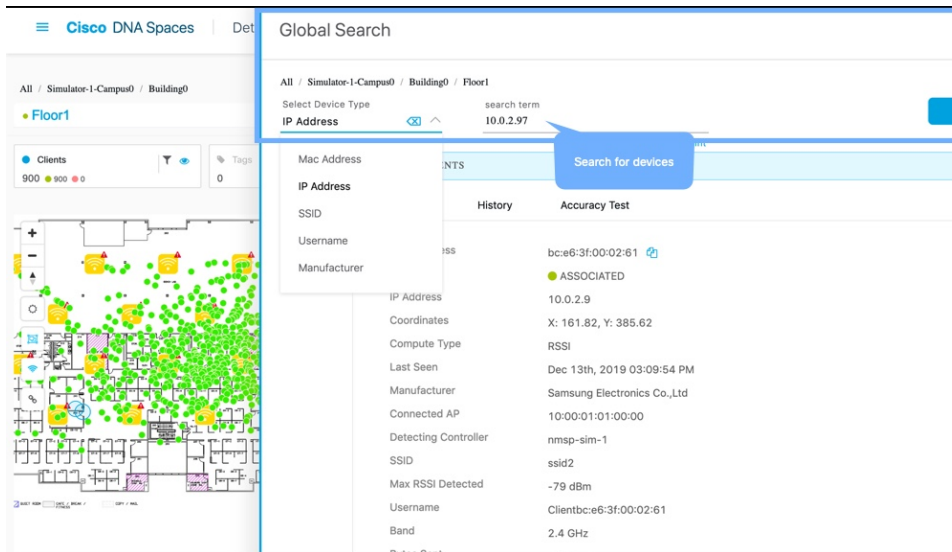
## Test Location Accuracy

This Cisco Spaces: Detect and Locate shows you how to run the location accuracy test.

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- Step 1** From the Detect and Locate dashboard, search for a device using a MAC address from the **Search MAC, IP, SSID, Manufacturer** text field.

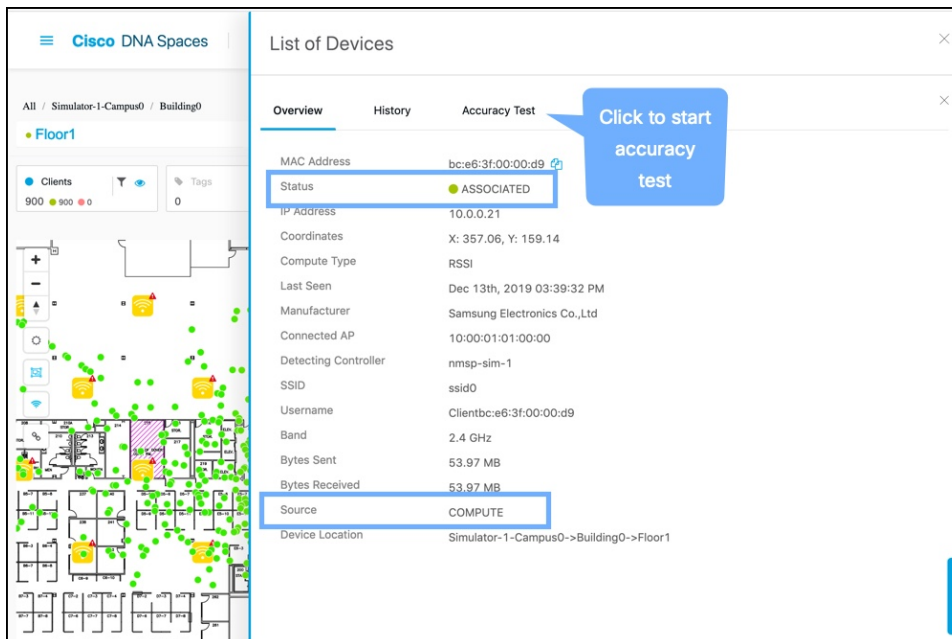
Figure 1: Detect and Locate: Dashboard



**Step 2** Ensure that the **Status** of the device is **ASSOCIATED** and the **Source** is **COMPUTE**.

**Step 3** In the device details window, click **Accuracy Test** tab.

Figure 2: Detect and Locate; Initiate Accuracy Test



**Step 4** Enter a unique report name. Move the blue pointer to the client's real-time location or adjust the X and Y coordinates. To begin, click **Start Test**.

**Figure 3: Detect and Locate Initiate Accuracy Test**

Client : 6c:19:c0:e5:87:3a ×

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Overview    History    **Accuracy Test**

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Report Name	X	Y	Test time (minutes)
6c:19:c0:e5:87:3a-12-03-2020	21.1	138.3	5

Unique test name **Start Test**

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Stops in	35:00
Data Collection	New
Data Points	0

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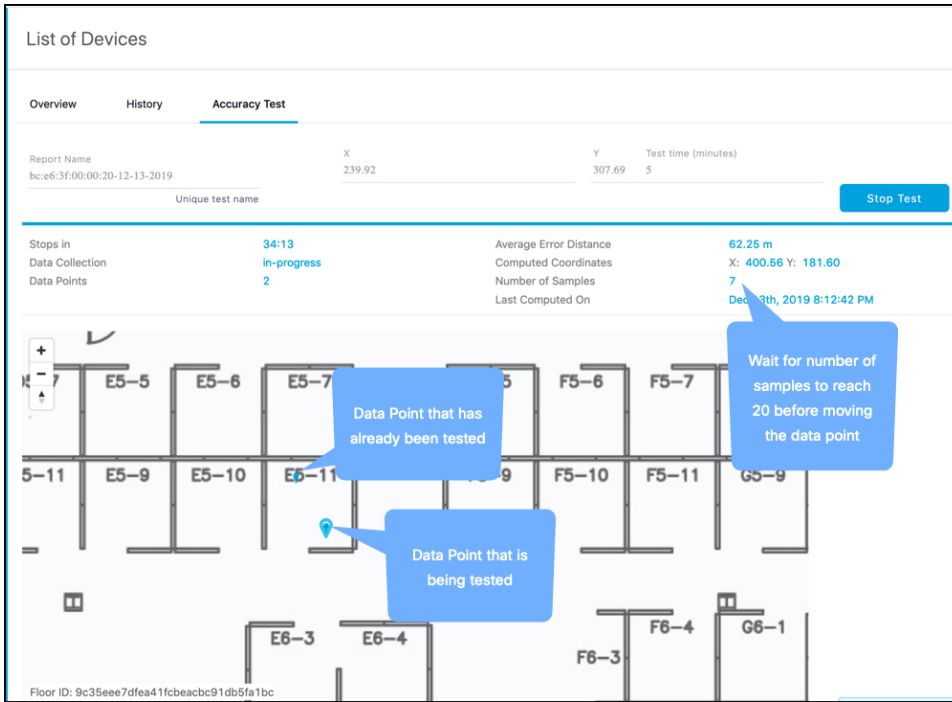


You can observe that the number of samples begins to increase.

**Note** The display refresh time is three seconds.

**Step 5** Wait for the number of samples to reach 20 and click **Stop Test**. Move the blue pointer representing the data point to a new location and click **Start Test** again.

Figure 4: Sample Size Must Reach 20



**Step 6** Repeat for multiple locations for a more accurate understanding of location accuracy.

**Figure 5: Repeat For Multiple Locations**

Client : 6c:19:c0:e5:87:3a


Overview History Accuracy Test

● Accuracy Report Generation Completed.

RESULTS

Report Name	Status	finish
MAC Address	6c:19:c0:e5:87:3a	Start Time
		Dec 3rd, 2020 07:20:21 PM

No report details



The floor plan diagram shows a complex layout of rooms and corridors. Several rooms are highlighted in green, and one room in the center is highlighted in blue. A navigation control with a plus sign, minus sign, and up/down arrows is located on the left side of the diagram.

**Step 7** Repeat for multiple locations for a more accurate understanding of location accuracy.

Figure 6: Repeat For Multiple Locations

Client : 6c:19:c0:e5:87:3a

Overview History **Accuracy Test**

Accuracy Report Generation Completed.

RESULTS

Report Name	Status	finish
MAC Address: 6c:19:c0:e5:87:3a	Start Time	Dec 3rd, 2020 07:20:21 PM

No report details

The accuracy reports are generated after the accuracy testing is done. You can also check it from the Detect and Locate left navigation bar under **Accuracy Report**.

Figure 7: Repeat For Multiple Locations

Spaces

Detect and Locate

As of: Dec 17, 2023 8:20 PM Refresh Export

0 Selected EQ Find

<input type="checkbox"/>	Report Name	MAC Address	Status	Hierarchy	Start Time	AOA Percent	Fusion Percent	RSSI Percent
<input type="checkbox"/>	#00:00:00:03:25-10-23-2023	#00:00:00:03:25	finish	Zhmin>Campus-118AP>CiscoBuilding118-floor2	Oct 23rd, 2023 03:31:43 PM	0	0	100.00
<input type="checkbox"/>	00:a2:ee:a2:e0:a0-05-24-2023	00:a2:ee:a2:e0:a0	new	Zhmin>SJC>building20-test>Floor1	May 24th, 2023 03:52:44 PM	--	--	--
<input type="checkbox"/>	00:03:71:12:a8:6f-05-24-2023	00:03:71:12:a8:6f	finish-with-no-data	Zhmin>SJC>building20-test>Floor1	May 24th, 2023 10:50:38 AM	--	--	--
<input type="checkbox"/>	00:03:71:12:92:b7-04-13-2023	00:03:71:12:92:b7	finish-with-no-data	Zhmin>SJC>building20-test>Floor1	Apr 13th, 2023 01:13:05 PM	--	--	--
<input type="checkbox"/>	00:03:71:12:92:b7-04-13-2023	00:03:71:12:92:b7	stop	Zhmin>SJC>building20-test>Floor1	Apr 13th, 2023 01:12:15 PM	--	--	--
<input type="checkbox"/>	00:77:8d:90:71:a8-02-28-2023	00:77:8d:90:71:a8	finish-with-no-data	Zhmin>System Campus>SJC 14>D-R-C	Feb 28th, 2023 11:54:03 AM	--	--	--
<input type="checkbox"/>	00:77:8d:90:71:a8-02-28-2023	00:77:8d:90:71:a8	finish-with-no-data	Zhmin>System Campus>SJC 14>D-R-C	Feb 28th, 2023 11:47:39 AM	--	--	--
<input type="checkbox"/>	00:77:8d:90:60:1a-02-28-2023	00:77:8d:90:60:1a	new	Zhmin>System Campus>SJC 14>D-R-C	Feb 28th, 2023 11:20:04 AM	--	--	--