

Monitor the Clients on the WAP125 and the WAP581

Objective

An optimal environment for wirelessly connected users is the way to keep production and business running smoothly. The Dashboard page on the WAP125 is used to monitor, maintain, and optimize the wireless connectivity between clients and the Wireless Access Point. It provides real-time updates of the traffic statistics on the wireless networks. With visualized statistics such as charts and graphs, makes it easier and handier to picture and pinpoint areas of the network that are in need of optimization or troubleshooting. It also has a section with shortcuts to

The objective of this document is to show you how to view and monitor clients on the Client page of the WAP125 and WAP581.

Applicable Devices

- WAP125
- WAP581

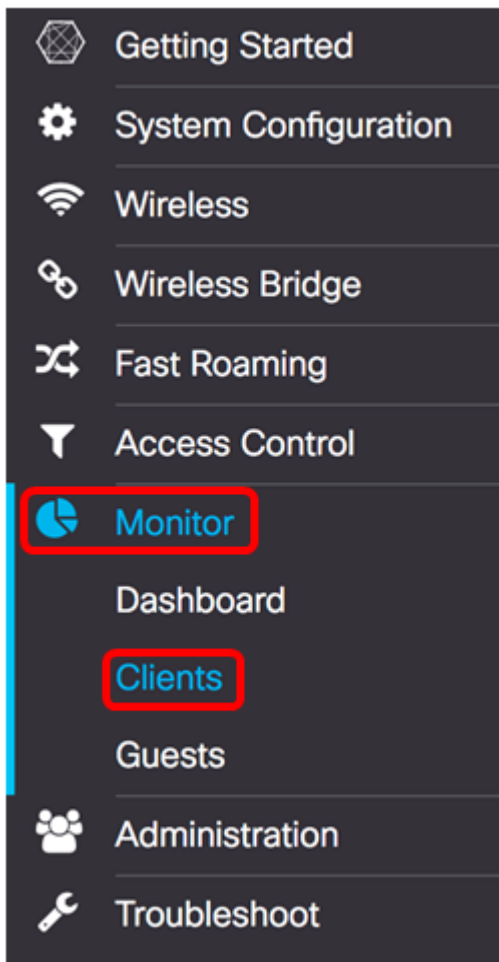
Software Version

- 1.0.0.4

Monitor the Clients

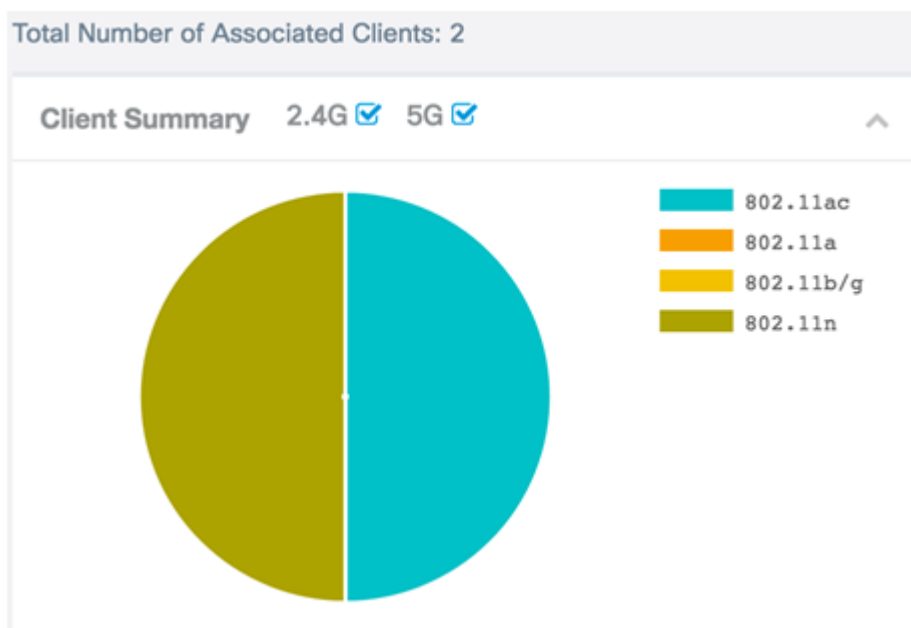
Client Summary

Step 1. Log in to the web-based utility and choose **Monitor > Clients**.



In the Client Summary area, the pie chart displays the summary of the clients connected to the network based on the 802.11 type. The 802.11 types are:

- 802.11ac — The 802.11ac IEEE standard allows for theoretical speeds up to 6.9 Gbps in the 5 GHz band, or 11.5 times those of 802.11n.
- 802.11a — Operates in the 5GHz spectrum
- 802.11b/g — Operates in the 2.4GHz spectrum
- 802.11n — Operates in both 2.4GHz and 5GHz spectrum



Note: In this example, 50% of the connected clients are connected through 802.11ac and

the other 50% is connected on the 802.11n.

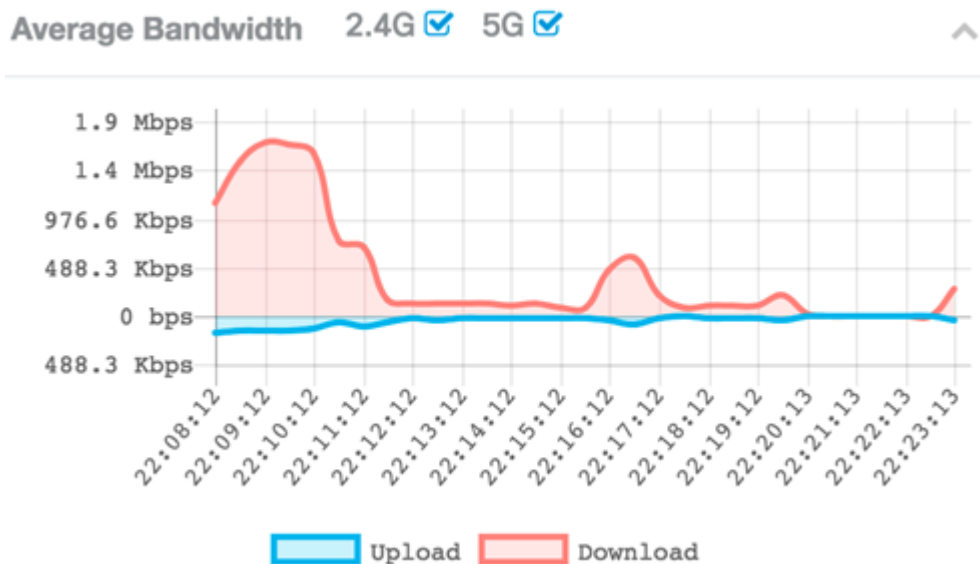
Step 2. (Optional) To monitor the associated clients on a specific radio band and at which type they operate, check or uncheck a check box to view a more detailed summary.

Note: In this example, 5G is unchecked. It will show you how many clients are connected through the specific radio band which in this example is only 1.



Average Bandwidth

The Average Bandwidth displays the client bandwidth in Mbps. The graph updates every 30 seconds.

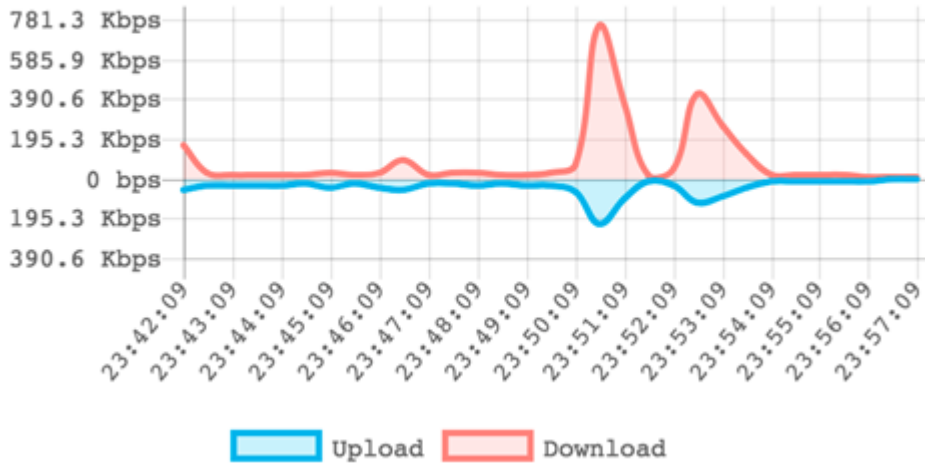


Step 1. (Optional) Check or uncheck a check box to view a more detailed summary of the upload and download of each radio frequency.

Note: In this example, 2.4G is checked.

Average Bandwidth

2.4G 5G

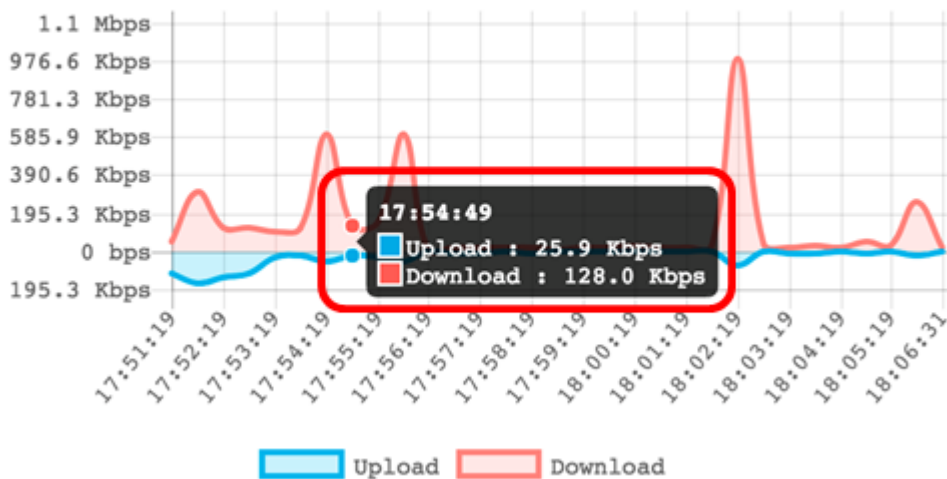


Step 2. Hover the cursor over a point in the graph to view specific and comparative transmission rates of specific points in time on the network.

Note: In this example, point 17:54:49 is displayed.

Average Bandwidth

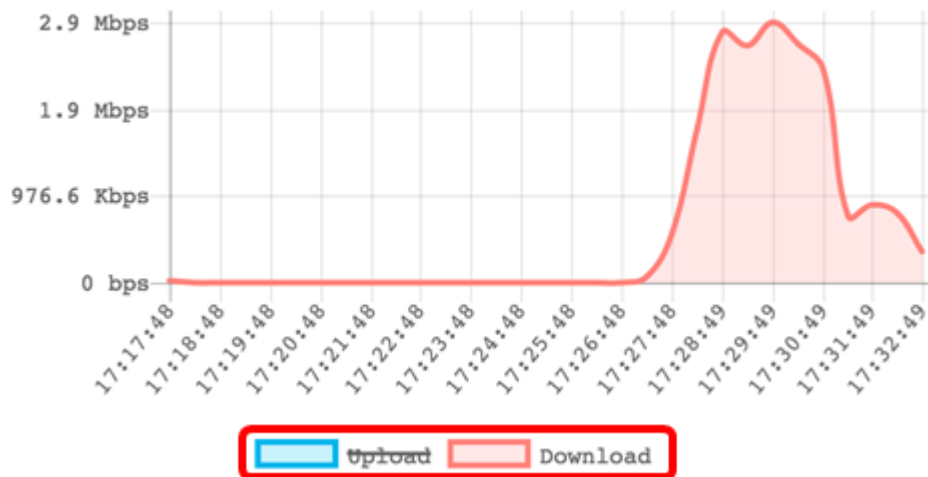
2.4G 5G



Step 3. (Optional) Click on **Upload** or **Download** to have an isolated view of the bandwidth usage on the network.

Note: In this example, Upload is clicked in order to have an isolated view of the Download bandwidth.

Average Bandwidth 2.4G 5G



Lowest SNR Clients

The Lowest SNR Clients area displays up to five clients from the lowest to greatest Signal-to-Noise Ratio (SNR). The ratio is rather a difference between the signal strength and the background noise measured in decibels (dB). The formula is:

$$\text{Signal Level} - \text{Noise Level} = \text{SNR}$$

When the signal strength increases or approaches 0, the noise level decreases thus determines the quality of the connection of the associated client.

Lowest SNR Clients 2.4G 5G

Low SNR Clients	SNR	Signal Meter
7a:f0:76:7a:7a:7a	-38 dB	

Lowest Speed Clients

The Lowest Speed Clients area displays up to five associated clients with the lowest connection speeds.

Lowest Speed Clients 2.4G 5G

Low Speed Clients	Mbps	Throughput Meter
7a:f0:76:7a:7a:7a	72.2	

Associated Clients

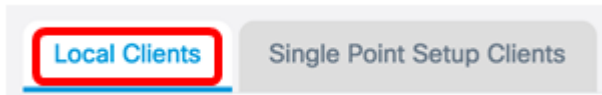
If you are using a WAP125, the Associated Clients area looks like the one below:

Associated Clients

Clients Details	Network (SSID)	Mode	Data Rate	Channel	Traffic (Up/Down)	SNR (dB)	Throughput Meter
7a:f0:76:7a:7a:7a	WAP125	N	72.2 Mbps	6	29.4 MB / 1.7 GB	-35	<input type="text"/>

The WAP581 has two tabs dedicated to Local Clients and Single Point Setup Clients. The Single Point Setup is a feature that is only available on the WAP581.

Step 1. On the WAP581, click the **Local Clients** tab.



The Associated Clients area from WAP125 and Local Clients area from WAP581 display the following details:

Associated Clients

Clients Details	Network (SSID)	Mode	Data Rate	Channel	Traffic (Up/Down)	SNR (dB)	Throughput Meter
7a:f0:76:7a:7a:7a	WAP125	N	72.2 Mbps	6	29.4 MB / 1.7 GB	-35	<input type="text"/>

- Client Details — The Client Details area displays the Media Access Control address of the associated client.
- Network (SSID) — Displays the Service Set Identifier (SSID) of the associated client.
- Mode — Displays the IEEE 802.11 mode of the associated client. These modes can be G, N, B, AC, and C.
 - G — Represents 802.11g
 - N — Represents 802.11n
 - B — Represents 802.11b
 - AC — Represents 802.11ac
 - C — Represents 802.11c
- Data Rate — The rate at which the WAP is transmitting.
- Channel — The channel at which the network SSID of the associated client is broadcasting.
- Traffic (Up/Down) — Displays traffic sent by the associated client.
- SNR (dB) — Displays the Signal-to-Noise Ratio (SNR) strength in decibels (dB).
- Throughput Meter — The throughput or Data Rate of the last 30 seconds.

You should now have viewed the local and associated clients on the WAP125 and the WAP581.

Single Point Setup Clients (WAP581 only)

Single Point Setup is a simple, multi-device management technology that allows you to deploy and manage a group of access points that support the feature. It offers the convenience of configuring a group of access points from a single point instead of configuring them individually. It also allows you to manage the access points locally or remotely. The Single Point Setup Clients tab lets you view the clients associated to the network through Single Point Setup.

Step 1. Click the **Single Point Setup Clients** tab.

Local Clients

Single Point Setup Clients

The Single Point Setup Clients area displays the following details:

Client Details	IP Address	Network (SSID)	Mode	Data Rate	AP Location	Channel	Traffic (Up/Down)	SNR (dB)	Throughput Meter
7a:8b:79:7a:7a:7a	192.168.100.20	Int_Pickle_Rick	N	72.2 Mbps	GroundFloor	6	992.4 KB / 46.2 MB	-34	

- Client Details — The Client Details area displays the Media Access Control address of the associated client.
- IP Address — The IP address of the associated client.
- Network (SSID) — Displays the Service Set Identifier (SSID) of the associated client.
- Mode — Displays the IEEE 802.11 mode of the associated client. These modes can be G, N, B, AC, and C.
 - G — Represents 802.11g
 - N — Represents 802.11n
 - B — Represents 802.11b
 - AC — Represents 802.11ac
 - C — Represents 802.11c
- Data Rate — The rate at which the WAP is transmitting.
- AP Location — Physical location of the Access Point. This is a place defined by the Administrator.
- Channel — The channel at which the network SSID of the associated client is broadcasting.
- Traffic (Up/Down) — Displays traffic sent by the associated client.
- SNR (dB) — Displays the Signal-to-Noise Ratio (SNR) strength in decibels (dB).
- Throughput Meter — The throughput or Data Rate of the last 30 seconds.

You should now have successfully viewed the Single Point Setup Clients on the WAP581.