



BSSID Counters

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BSSID counters

A BSSID counter is a statistical feature that

- retrieves BSSID statistics when a client is associated with a WLAN for every configured interval
- requires configuration in the controller per AP profile to enable or disable BSSID statistics on the access points, and
- is disabled by default.

BSSID counter limitations

BSSID counter is not supported on the Cisco Aironet 1800 series APs and Cisco Catalyst 9100 series APs.

Enable BSSID statistics and BSSID neighbor statistics (CLI)

Enable BSSID statistics collection and neighbor statistics reporting to monitor AP performance and neighboring wireless networks.

Procedure

Step 1 Enter global configuration mode.

Example:

```
Device# configure terminal
```

Step 2 Enter the AP profile configuration submode.

Example:

```
Device(config)# ap profile ap-profile-name
```

ap-profile-name is the profile name of the configured AP.

Step 3 Enable BSSID statistics.

Example:

```
Device(config-ap-profile)# ssid-stats
```

Use the **no** form of the command to disable the feature.

Step 4 Set the BSSID stats frequency timer.

Example:

```
Device(config-ap-profile)# ssid-stats ssid-stats-frequency ssid-timer-seconds
```

Example:

```
Device(config-ap-profile)# ssid-stats ssid-stats-frequency 40
```

BSSID statistics frequency timer is in the range of 1 to 180 seconds.

Step 5 Enable BSSID neighbor statistics.

Example:

```
Device(config-ap-profile)# ssid-neighbor-stats
```

Use the **no** form of the command to disable the feature.

Step 6 Set the interval at which BSSID neighbor statistics is sent from the AP.

Example:

```
Device(config-ap-profile)# ssid-neighbor-stats interval ssid-interval
```

Example:

```
Device(config-ap-profile)# ssid-neighbor-stats interval 50
```

The BSSID neighbor stats interval is in the range of 1 to 180 seconds.

BSSID statistics and BSSID neighbor statistics are now enabled and will be collected at the specified intervals for network monitoring and analysis.

BSSID statistics verification on the controller

To verify the BSSID statistics on the controller, use these commands:

- **show wireless stats ap name *ap-name* dot11 24ghz slot *0* wlan-id<*wlan-id*> statistics**

```
Device# show wireless stats ap name APXXXX.6DXX.58XX dot11 24ghz slot 0 wlan-id 18 stat
BSSID           : 7069.5a38.112e
WLAN ID         : 18
Client Count    : 1
TX Statistics
-----
Mgmt           Retries      Data Bytes      Data Retries      Subframe Retries
-----
12             18           16081           18                 0
RX Statistics
-----
Mgmt           Data Bytes
```

```
-----
74          17693
Data Distribution
-----
```

Bytes	RX	TX
0-64	55	93
65-128	66	40
129-256	21	5
257-512	10	3
513-1024	1	9
1025-2048	0	1
2049-4096	0	0
4097-8192	0	0
8193-16384	0	0
16385-32768	0	0
32769-65536	0	0
65537-131072	0	0
131073-262144	0	0
262145-524288	0	0
524289-1048576	0	0

```
WMM Statistics
-----
```

	RX	TX
Voice	0	43
Video	0	0
Best Effort	154	39
Background	0	0

```
MCS
-----
```

MCS	RX	TX
mcs0	39	0
mcs1	2	0
mcs2	5	0
mcs3	7	0
mcs4	25	0
mcs5	59	0
mcs6	290	0
mcs7	1148	3
mcs8	2288	0
mcs9	4440	2

• **show ap name ap_nameneighbor summary**

```
Device#show ap name APXXXX.6DXX.59XX neighbor summary
```

BSSID	Channel	Channel-width	Slot	RSSI	Last-Heard
	SSID				Neighbour
0008.2f1c.8040 18:25:14	1	20 Mhz aprusty-un-dot1x	0	-39	03/17/2020 FALSE
0008.2f1c.8041 18:25:14	1	20 Mhz aprusty-sim-11	0	-39	03/17/2020 FALSE
0008.2f1c.8042 18:25:14	1	20 Mhz one-ph	0	-39	03/17/2020 FALSE
0008.2f1c.8044 18:25:14	1	20 Mhz aprusty-test	0	-38	03/17/2020 FALSE
0008.3296.f340	11	20 Mhz	0	-51	03/18/2020

BSSID statistics verification on the controller

10:39:27		ewlc-ap-dot1x			FALSE	
0008.3296.f341	11	20 Mhz	0	-49		03/18/2020
10:39:27		vewlc_small_psk			FALSE	
002a.1022.d950	1	20 Mhz	0	-57		03/17/2020
18:25:14		ewlc-ap-dot1x			FALSE	
002a.105c.bfd0	1	20 Mhz	0	-36		03/17/2020
18:25:14		ewlc-ap-dot1x			FALSE	
002a.105c.bfd1	1	20 Mhz	0	-37		03/17/2020
18:25:14		vewlc_small_psk			FALSE	
002c.c864.76d0	11	20 Mhz	0	-61		03/18/2020
10:37:37		rajwlan			FALSE	
BSSID	Channel	Channel-width	Slot	RSSI		Last-Heard
	SSID					Neighbour
002c.c8de.59e0	1	20 Mhz	0	-48		03/17/2020
18:25:14		WQ			FALSE	
002c.c8de.5d80	11	20 Mhz	0	-54		03/18/2020
10:39:27		ewlc-ap-dot1x			FALSE	
002c.c8de.5d81	11	20 Mhz	0	-55		03/18/2020
10:39:27		vewlc_small_psk			FALSE	
002c.c8de.7260	11	20 Mhz	0	-53		03/18/2020
10:39:27		ewlc-ap-dot1x			FALSE	
002c.c8de.7261	11	20 Mhz	0	-54		03/18/2020
10:39:27		vewlc_small_psk			FALSE	
005d.7390.e1e0	1	20 Mhz	0	-54		03/17/2020
18:25:14		rlan			FALSE	
006b.f114.95a0	1	20 Mhz	0	-60		03/17/2020
18:25:14		zavc			FALSE	
006b.f114.b0e0	1	20 Mhz	0	-46		03/17/2020
18:25:14		ewlc-ap-dot1x			FALSE	
006c.bc61.2340	1	20 Mhz	0	-63		03/17/2020
18:24:44		dnac-swim			FALSE	
006c.bc72.5ce0	11	20 Mhz	0	-58		03/18/2020
10:39:17		dnac-swim			FALSE	