



## BSSID Counters

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## BSSID Counters

This feature helps to retrieve the BSSID statistics when a client is associated with a WLAN for every configured interval. A new configuration is introduced in the controller per AP profile to enable or disable BSSID statistics on the access points. The feature is disabled by default.



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

## Enabling BSSID Statistics and BSSID Neighbor Statistics

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b> <b>Example:</b> Device# configure terminal	Enters global configuration mode.
<b>Step 2</b>	<b>ap profile</b> <i>ap-profile-name</i> <b>Example:</b> Device(config)# ap profile <i>ap-profile-name</i>	Enters the AP profile configuration submode. <i>ap-profile-name</i> is the profile name of the configured AP.
<b>Step 3</b>	<b>bssid-stats</b> <b>Example:</b> Device(config-ap-profile)#[no] bssid-stats	Enables BSSID statistics. Use the <b>no</b> form of the command to disable the feature.

	Command or Action	Purpose
<b>Step 4</b>	<b>bssid-stats bssid-stats-frequency</b> <i>bssid-timer-seconds</i>  <b>Example:</b> Device(config-ap-profile)# bssid-stats bssid-stats-frequency 40	Sets the BSSID stats frequency timer. BSSID statistics frequency timer is in the range of 1 to 180 seconds.
<b>Step 5</b>	<b>bssid-neighbor-stats</b>  <b>Example:</b> Device(config-ap-profile)# [no] bssid-neighbor-stats	Enables BSSID neighbor statistics. Use the <b>no</b> form of the command to disable the feature.
<b>Step 6</b>	<b>bssid-neighbor-stats interval</b> <i>bssid-interval</i> <i>&lt;1-180&gt;</i>  <b>Example:</b> Device(config-ap-profile)# [no] bssid-neighbor-stats interval 50	Sets the interval at which BSSID neighbor statistics is sent from the AP. The BSSID neighbor stats interval is in the range of 1 to 180 seconds.

## Verifying BSSID Statistics on the Controller

To verify the BSSID statistics on the controller, use the following command:

- **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\_name* neighbor summary**

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

BSSID	Channel SSID	Channel-width	Slot	RSSI	Last-Heard Neighbour
0008.2f1c.8040 18:25:14	1 aprusty-un-dot1x	20 Mhz	0	-39	03/17/2020 FALSE
0008.2f1c.8041 18:25:14	1 aprusty-sim-11	20 Mhz	0	-39	03/17/2020 FALSE
0008.2f1c.8042 18:25:14	1 one-ph	20 Mhz	0	-39	03/17/2020 FALSE
0008.2f1c.8044 18:25:14	1 aprusty-test	20 Mhz	0	-38	03/17/2020 FALSE
0008.3296.f340 10:39:27	11 ewlc-ap-dot1x	20 Mhz	0	-51	03/18/2020 FALSE
0008.3296.f341 10:39:27	11 vewlc_small_psk	20 Mhz	0	-49	03/18/2020 FALSE
002a.1022.d950 18:25:14	1 ewlc-ap-dot1x	20 Mhz	0	-57	03/17/2020 FALSE
002a.105c.bfd0 18:25:14	1 ewlc-ap-dot1x	20 Mhz	0	-36	03/17/2020 FALSE
002a.105c.bfd1 18:25:14	1 vewlc_small_psk	20 Mhz	0	-37	03/17/2020 FALSE
002c.c864.76d0 10:37:37	11 rajwlan	20 Mhz	0	-61	03/18/2020 FALSE

```

BSSID          Channel  Channel-width Slot  RSSI  Last-Heard

```

		SSID				Neighbour	
002c.c8de.59e0 18:25:14	1	20 Mhz	0	-48	WQ	FALSE	03/17/2020
002c.c8de.5d80 10:39:27	11	20 Mhz	0	-54	ewlc-ap-dot1x	FALSE	03/18/2020
002c.c8de.5d81 10:39:27	11	20 Mhz	0	-55	vewlc_small_psk	FALSE	03/18/2020
002c.c8de.7260 10:39:27	11	20 Mhz	0	-53	ewlc-ap-dot1x	FALSE	03/18/2020
002c.c8de.7261 10:39:27	11	20 Mhz	0	-54	vewlc_small_psk	FALSE	03/18/2020
005d.7390.e1e0 18:25:14	1	20 Mhz	0	-54	rlan	FALSE	03/17/2020
006b.f114.95a0 18:25:14	1	20 Mhz	0	-60	zavc	FALSE	03/17/2020
006b.f114.b0e0 18:25:14	1	20 Mhz	0	-46	ewlc-ap-dot1x	FALSE	03/17/2020
006c.bc61.2340 18:24:44	1	20 Mhz	0	-63	dnac-swim	FALSE	03/17/2020
006c.bc72.5ce0 10:39:17	11	20 Mhz	0	-58	dnac-swim	FALSE	03/18/2020