



## 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><br><b>Example:</b><br>Device# configure terminal  | Enters global configuration mode.   |
| <b>Step 2</b> | <b>ap profile <i>ap-profile-name</i></b><br><b>Example:</b><br>Device(config)# ap profile<br><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><br><b>Example:</b><br>Device(config-ap-profile)#[no]<br>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><br><i>bssid-timer-seconds</i><br><br><b>Example:</b><br>Device(config-ap-profile)# bssid-stats<br>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><br><br><b>Example:</b><br>Device(config-ap-profile)# [no]<br>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><br><i>&lt;1-180&gt;</i><br><br><b>Example:</b><br>Device(config-ap-profile)# [no]<br>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<br>SSID       | Channel-width | Slot | RSSI | Last-Heard<br>Neighbour |
|----------------------------|-----------------------|---------------|------|------|-------------------------|
| 0008.2f1c.8040<br>18:25:14 | 1<br>aprusty-un-dot1x | 20 Mhz        | 0    | -39  | 03/17/2020<br>FALSE     |
| 0008.2f1c.8041<br>18:25:14 | 1<br>aprusty-sim-11   | 20 Mhz        | 0    | -39  | 03/17/2020<br>FALSE     |
| 0008.2f1c.8042<br>18:25:14 | 1<br>one-ph           | 20 Mhz        | 0    | -39  | 03/17/2020<br>FALSE     |
| 0008.2f1c.8044<br>18:25:14 | 1<br>aprusty-test     | 20 Mhz        | 0    | -38  | 03/17/2020<br>FALSE     |
| 0008.3296.f340<br>10:39:27 | 11<br>ewlc-ap-dot1x   | 20 Mhz        | 0    | -51  | 03/18/2020<br>FALSE     |
| 0008.3296.f341<br>10:39:27 | 11<br>vewlc_small_psk | 20 Mhz        | 0    | -49  | 03/18/2020<br>FALSE     |
| 002a.1022.d950<br>18:25:14 | 1<br>ewlc-ap-dot1x    | 20 Mhz        | 0    | -57  | 03/17/2020<br>FALSE     |
| 002a.105c.bfd0<br>18:25:14 | 1<br>ewlc-ap-dot1x    | 20 Mhz        | 0    | -36  | 03/17/2020<br>FALSE     |
| 002a.105c.bfd1<br>18:25:14 | 1<br>vewlc_small_psk  | 20 Mhz        | 0    | -37  | 03/17/2020<br>FALSE     |
| 002c.c864.76d0<br>10:37:37 | 11<br>rajwlan         | 20 Mhz        | 0    | -61  | 03/18/2020<br>FALSE     |
| BSSID                      | Channel               | Channel-width | Slot | RSSI | Last-Heard              |

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