



BSSID Counters

- [BSSID Counters, on page 1](#)
- [Enabling BSSID Statistics and BSSID Neighbor Statistics, on page 1](#)
- [Verifying BSSID Statistics on the Controller, on page 2](#)

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

| | Command or Action | Purpose |
|---------------|--|--|
| Step 4 | bssid-stats bssid-stats-frequency <i>bssid-timer-seconds</i> Example: 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. |
| Step 5 | bssid-neighbor-stats Example: Device(config-ap-profile)# [no] bssid-neighbor-stats | Enables BSSID neighbor statistics. Use the no form of the command to disable the feature. |
| Step 6 | bssid-neighbor-stats interval <i>bssid-interval</i> <i><1-180></i> Example: 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 |