



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
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 bssid-interval <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