

show Commands

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show ap client-trace status

To view the AP client trace details, use the **show ap client-trace status** command.

show ap client-trace { events { all | mac word | system } | skb { drop-list | stats } | status }

Syntax Description

events	View client trace event information
all	Displays all client trace events
system	Displays all system events
mac	Displays client trace events for specific MAC address
word	Specific client MAC address
skb	Displays client trace SKB information
drop-list	Displays client trace SKB drop list information
stats	Displays client trace SKB statistics
status	Displays client trace configuration

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view the AP client trace status:

cisco-ap# show ap client-trace status

show arp

To view the ARP table, use the **show arp** command.

show arp

Syntax Description

arp Shows ARP table

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows a sample output of the command:

cisco-ap# show arp

Address Age (min) Hardware Addr 9.11.8.1 0 84:80:2D:A0:D2:E6 9.11.32.111 0 3C:77:E6:02:33:3F

show avc cft

To view the AVC client flow table information, use the **show avc cft** command.

show avc cft word

Syntax Description	word	Client MAC
		1.1

address

Command Modes User EXEC (>)

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view the AVC client flow table:

cisco-ap# show avc cft 02:35:2E:03:E0:F2

show avc nbar

To view the AVC NBAR information, use the **show avc nbar** command.

show avc nbar {statistics | build | version}

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Syntax	Desc	rin	ıtin	ı

statistics	Displays NBAR build details
build	Displays NBAR statistics
version	Displays NBAR and PP version

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

	ion
8.1.111.0 This commintroduced	

The following example shows how to view the AVC NBAR build information:

cisco-ap# show avc nbar build

show avc netflow flows

To list all the flows currently cached and to be sent to the Cisco WLC, use the **show avc netflow flows** command.

show avc netflow flows {download | upload}

Syntax Description	download	Lists currently cached download flows
	upload	Lists currently cached upload flows
Command Modes	User EXEC Privileged E	
Command History	Release M	
		his command was

The following example shows how to view all the currently cached flows:

cisco-ap# show avc netflow flows

show avc status

To list the AVC provisioning status per WLAN/VAP, use the **show avc status** command.

show avc status

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view AVC provisioning status per WLAN/VAP:

cisco-ap# show avc status

```
VAP FNF-STATUS AVC-QOS-STATUS
 0
    Disabled
                   Disabled
     Disabled
                   Disabled
    Disabled
                   Disabled
    Disabled
                   Disabled
    Disabled
                   Disabled
    Disabled
 5
                   Disabled
 6
     Disabled
                   Disabled
     Disabled
                   Disabled
 8
    Disabled
                   Disabled
    Disabled
                   Disabled
 10
    Disabled
                   Disabled
     Disabled
                   Disabled
 11
 12
     Disabled
                   Disabled
13
     Disabled
                   Disabled
14
    Disabled
                   Disabled
 15
    Disabled
                   Disabled
```

show boot

To show boot attributes, use the **show boot** command.

show boot

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view boot attributes:

cisco-ap# show boot

BOOT path-list: part2
Console Baudrate: 9600
Enable Break: yes
Manual Boot: no
Memory Debug: no
Crashkernel:

show Commands

show capwap

To disaply CAPWAP options, use the **show capwap** command.

show capwap [{ip | mcast | traffic}]

Syntax Description

client	CAPWAP client information
ids	CAPWAP ID information
ip	CAPWAP IP configuration
location	CAPWAP location information
mcast	CAPWAP multicast information
pnp	PNP information
traffic	CAPWAP traffic information

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was
	introduced.

The following example shows how to view the CAPWAP multicast information:

cisco-ap# show capwap mcast

show capwap client

To display CAPWAP client information, use the show capwap client command.

show capwap client {callinfo info | detailrcb | rcb | config | ha | msginfo | timers | traffic}

Syntax Description

callinfo info	CAPWAP client call information
detailrcb	CAPWAP client detailed RCB information
rcb	CAPWAP client RCB information
config	CAPWAP client config information
ha	CAPWAP client HA parameters
msginfo	CAPWAP client messages information
timers	CAPWAP client timers
traffic	CAPWAP client 802.11 traffic information

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view CAPWAP client traffic information:

cisco-ap# show capwap client traffic

show capwap client trace

To display CAPWAP trace, use the **show capwap client trace** command.

show capwap client trace {clear | delete | disable | save | start | stop}

Syntax Description

clear	Clears trace
delete	Deletes trace
disable	Disables trace at boot
enable	Enables trace at boot
save	Saves trace
start	Starts trace
stop	Stops trace

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view CAPWAP client trace:

cisco-ap# show capwap client trace

show capwap ids sig

To disaplay CAPWAP ID signatures, use the show capwap ids sig command.

show capwap ids sig [{list | stats}]

•	_			
Syntax	Decc	rı	ntır	۱n
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list	Signature list entries
stats	Signature attack statistics

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example show how to view CAPWAP ID signature statistics:

cisco-ap# show capwap ids sig stats

show cdp

To display CDP options, use the **show cdp** command.

show cdp {entry device device-name | inline_power | interface | neighbors | traffic}

Syntax Description

entry device device-name	Information for specific neighbor entry whose name you must enter
inline_power	Inline power negotiation information
interface	CDP interface status and configuration
neighbors	CDP neighbor entries
traffic	CDP statistics

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.
	miroduced.

The following example shows how to view information for a specific neighbor entry:

cisco-ap# show cdp entry device mydevice

show class-map

To display CPL class map, use the **show class-map** command.

show class-map

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view CPL class map:

cisco-ap# show class-map

show cleanair debug

To display cleanair debug settings, use the **show cleanair debug** command.

show cleanair debug

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was
	introduced.

The following example shows how to view CleanAir debug settings:

cisco-ap# show cleanair debug

show client statistics

To disaply client statistics, use the **show client statistics** command.

show client statistics client-mac-address

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Syntax	DESCII	puon

client-mac-address MAC address of the client

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view client statistics:

cisco-ap# show client statistics 70:DB:98:66:34:FA

show clock

To display the system clock, use the **show clock** command.

show clock

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view the system clock:

cisco-ap# show clock

show configuration

To display the contents of the non-volatile memory, use the **show configuration** command.

show configurationrlan

Command Modes

Privileged EXEC (#)

Syntax Description

Command History

Release	Modification
8.1.111.0	This command was introduced.
8.9	This command was enhanced by adding rlan parameter.
8.10.112.0	The output of this command was enhanced to show the status of broken antenna detection.

The following example shows how to view the AP configuration details:

cisco-ap# show configuration

```
: AP58AC.78DC.C2F0
AP Name
Admin State
                         : Enabled
AP Mode
                        : FlexConnect
AP Submode
                        : Not Configured
Location
                         : default location
Reboot Reason
                         : Reload command
AP Link LAG status
                     : Disabled
                        : Enabled
AP WSA Mode
Vlan Interface
                        : Disabled
Broken antenna detection : Enabled (Global)
RSSI Failure Threshold : 40
Weak RSSI
                        : 60
                         : 12
Detection Time
If any broken antenna?
                        : ALL
AP58AC.78DC.C2F0#
```

show controller ble

To view Bluetooth Low Energy radio interface parameter information, use the **show controller ble** command.

show controller ble *ble-interface-number* { {**broadcast** | **counters** | **floor-tag** *floor-beacon-mac-addr* | **interface** | **local** | **scan** {**brief** | **detail** *floor-beacon-mac-addr*} | **timers**}

Syntax Description

ble-interface-number	BLE interface number that you must enter; Valid value is 0
broadcast	Displays BLE broadcast summary information
counters	Displays BLE transport counters information
floor-tag floor-beacon-mac-addr	Displays sync data of the floor beacon whose MAC address you must specify
interface	Displays BLE interface summary information
local	Displays sync information of host BLE radio
scan brief	Displays brief BLE scan summary information
scan detail floor-beacon-mac-addr	Displays BLE scan summary information in detail; you must specify the floor beacon MAC address
timers	Displays BLE timers information

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.7	This command was introduced.

Examples

To view the BLE timers information, use this command:

cisco-ap# show controller ble 0 timers

Timers

Scan timer status : Running
Scan timer interval : 10 secs

Scan started at : 0D:00H:04M:28S ago
Last scan done at : 0D:00H:00M:06S ago

If scanning is working as expected, the 'Last scan done at' time should always be less than or equal to the scan interval set.

show controllers dot11Radio

To display dot11 interface information, use the **show controllers dot11Radio** command.

 $show \ controllers \ dot 11 Radio \ dot 11 - interface - no \{antenna \mid \{ \ atf configuration \mid \ statistics \} \mid bandselect \mid client \{ \ client - mac - addr \mid \ all \ detail \} \mid frequency \mid powercfg \mid powerreg \mid radio stats \mid rate \mid vlan \mid wlan - id \mid \ all \ detail \} \}$

Syntax Description

dot11-interface-no	Dot11Radio interface number.
atf configuration	Displays the AirTime Fairness configuration.
atf statistics	Displays the AirTime Fairness statistics.
bandselect	Displays the bandselect statistics.
antenna	Displays the antenna settings
client client-mac-addr	Displays the details of the client whose MAC address is specified.
detail	Displays the TID statistics for all the clients.
frequency	Displays the frequency information.
powercfg	Displays the configured power information.
powerreg	Displays the transmit power information.
radio-stats	Displays the radio statistics.
rate	Displays the rate information.
vlan	Displays the VLAN summary.
wlan wlan-id	Displays the VLAN/WLAN details of the WLAN ID specified.
detail	Displays the TID statistics for all the clients.

Command Modes

User EXEC (>)

Command History

Release	Modification
8.1.111.0	This command was introduced.
8.9	This command was enhanced by adding the bandselect , client all detail , wlan parameters.

The following example shows how to view 802.11 interface information for interface number 1: cisco-ap# show controllers dot11Radio 1

show controllers nss status

To display NSS information, use the **show controllers nss status** command.

show controllers nss status

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view NSS information:

cisco-ap# show controllers nss status

show controllers wired

To view the wired interface, use the **show controllers wired** command.

show controllers wired wired-interface-number

Syntax Description

wired-interface-number Wired interface number from 0 to 3

Command Modes

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view information about the controllers' wired interface whose ID is 1:

cisco-ap# show controllers wired 1

wired1 Link encap:Ethernet HWaddr C8:8B:6A:33:59 eMac Status: DOWN inet addr:9.11.8.104 Bcast:9.255.255.255 Mask:255.255.255.255

DOWN BROADCAST RUNNING PROMISC MULTICAST MTU:2400 Metric:1

RX packets:38600 errors:0 dropped:1 overruns:0 frame:0

TX packets:179018 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:80

RX bytes:3812643 (3.6 MiB) TX bytes:54721869 (52.1 MiB)

Gig Emac1 Counters

- 0 Good octets rx , 0 Bad octets rx , 0 Unicast frames rx ,
- 0 Broadcast frames rx, 0 Multicast frames rx, 0 64 byte frames rx,
- 0 65_TO_127 byte frames, 0 128_TO_255 byte frames, 0 256_TO_511 byte frames, 0 512 TO 1023 byte frames, 0 1024 TO MAX byte frames, 0 Good octets tx,
- O Unicast frames tx, O Multicast frames tx, O Broadcast frames tx,
- O Crc errors sent, O Flow control rx, O Flow control tx,
- 0 Rx fifo overrun, 0 Undersized rx, 0 Fragments rx,
- O Oversize rx, O Jabber rx, O Mac rx error,
- O Bad crc event, O Collision, O Late collision,

show crypto

To view the crypto attributes, use the **show crypto** command.

show crypto

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view the crypto attributes:

cisco-ap# show crypto

show debug

To view the debugs enabled, use the **show debug** command.

show debug

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view the debugs that are in enabled state:

cisco-ap# show debug

show dhcp

To view the status of Dynamic Host Configuration Protocol (DHCP), use the **show dhcp** command.

show dhcp {lease | servers}

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lease	Displays the DHCP addresses leased from a server
servers	Displays the known DHCP servers

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view the status of DHCP addresses leased from a server:

cisco-ap# show dhcp lease

show dot11 qos

To view the Quality of Service (QoS) parameters for 802.11 network, use the **show dot11 qos** command.

show dot11 qos

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view the Quality of Service (QoS) parameters for 802.11 network:

cisco-ap# show dot11 qos

show filesystems

To view the filesystem information, use the **show filesystems** command.

show filesystems

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view the filesystem information:

cisco-ap# show filesystems

Filesystem Size Used Available Use% Mounted on /dev/ubivol/storage 57.5M 1.9M 52.6M 4% /storage

show flash

To view the flash contents, use the **show flash** command.

show flash [{cores [detail core-file-name] | crash | syslogs}]

Syntax Description

cores	Displays the core files in flash
detail	Displays the core file contents
core-file-name	The core file name
crash	Displays the crash files in flash
syslogs	Displays the syslogs files in flash

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view the details of a core file in flash:

cisco-ap# show flash cores detail filename1

show flexconnect

To view the flexconnect information for an access point, use the **show flexconnect** command.

show flexconnect {calea | cckm | client [aaa-override | counter | priority] | dot11r | mcast | oeap | pmk | status | vlan-acl | wlan}

Syntax Description

calea	Displays the calea information
cckm	Displays the CCKM cache entry information
client	Displays the client information
aaa-override	Specifies the AAA override parameters
counter	Specifies the counter for all clients
priority	Specifies the client priority
dot11r	Displays the 802.11r cache entry information
mcast	Displays the multicast information
oeap	Displays the FlexConnect OEAP information
pmk	Displays the OKC or PMK cache entry information
status	Displays the standalone status
vlan-acl	Displays the VLAN ACL mapping
wlan	Displays the WLAN configuration

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view the information about a client of a FlexConnect AP:

cisco-ap# show flexconnect client

show flexconnect oeap firewall

To view the OEAP firewall information, use the **show flexconnect oeap firewall** command.

show flexconnect oeap firewall [{dmz | filtering | forwarding}]

•	-	-		
Syntax	Hac	rrin	tini	n
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dmz	Displays the OEAP firewall DMZ information
filtering	Displays the OEAP firewall filtering information
forwarding	Displays the OEAP firewall port forwarding information

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view the OEAP firewall DMZ information:

cisco-ap# show flexconnect oeap firewall dmz

show flexconnect wlan

To view the WLAN configuration for Flexconnect AP mode, use the **show flexconnect wlan** command.

show flexconnect wlan [{l2acl | qos | vlan}]

Syntax Description

l2acl	Specifies the Layer 2 ACL mapping for WLAN
qos	Specifies the QoS parameters for WLAN
vlan	Specifies the VLAN mapping for WLAN

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was
	introduced

The following example shows how to view the WLAN Layer 2 ACL mapping for the Flexconnect AP:

cisco-ap# show flexconnect wlan l2acl

show interfaces dot11Radio

To view the interface status and configuration for an 802.11 radio, use the **show interfaces dot11Radio** command.

show interfaces dot11Radio radio-interface-number { dfs | memory [memory-address length | firmware] | mumimo wlan-number | sniffer | statistics | wlanwlan-id datapathcounters | statistics }

Syntax Description

radio-interface-number	Specifies the interface number for 802.11 radio. The valid range is from 0 to 1
dfs	Displays the DFS statistics
memory	Displays the dump radio memory
memory-address	Specifies the memory address. The valid range is between 0 and ffffffff
length	Specifies the length. The valid range is from 0 to 64
firmware	Dumps firmware logs
mumimo	Displays the multiuser MIMO statistics information
wlan-number	The 802.11-specific value whose valid range is from 0 to 15.
sniffer	Displays the sniffer mode statistics
statistics	Displays the statistics information for 802.11 radio
wlan wlan-id	Displays the specified WLAN information
datapath	Displays the datapath counters.
counters	Displays the datapath counters and drops.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification	
8.1.111.0	This command was introduced.	
8.9	This command was enhanced by adding the datapath parameter.	

The following example shows how to view the DFS statistics for a 802.11 interface whose number is 1:

```
cisco-ap# show interfaces dot11Radio 1 dfs
```

```
DFS Data:
Radar Detected: 0
Inactive Radar Detected: 0
```

show interfaces network

To view the Linux network interfaces, use the **show interfaces network** command.

show interfaces network

Command Modes

Privileged EXEC (#)

Command History

8.1.111.0 This command was introduced.

The following example shows how to view the Linux network interfaces:

cisco-ap# show interfaces network

show interfaces wired

To view the wired interface, use the **show interfaces wired** command.

show interfaces wired *wired-interface-number* {**MIB-stats** | **datapath counters**}

Syntax Description

wired-interface-number	Wired interface number; valid range is between 0 to 3
MIB-stats	Displays the AP internal-Switch MIB counters.
datapath	Displays the datapath counters.
counters	Displays the datapath counters and drops.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification	
8.1.111.0	This command was introduced.	
8.9	This command was enhanced by adding the datapath parameter.	

The following example shows how to view the wired interface whose number is 1:

cisco-ap# show interfaces wired 1

show inventory

To view the physical inventory, use the **show inventory** command.

show inventory

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view the physical inventory:

cisco-ap# show inventory

NAME: AP2800, DESCR: Cisco Aironet 2800 Series (IEEE 802.11ac) Access Point PID: AIR-AP2802I-D-K9 , VID: V01, SN: XXXXXXXXXX

show ip

To view the IP information, use the **show ip** command.

show ip {access-lists | interface brief | route | tunnel [eogre {domain | forwarding-table | gateway} | fabric | summary | sip-snooping { stats | status}]}

Syntax Description

access-lists	Lists the IP access lists			
interface	Displays the IP interface status and configuration			
brief	Displays the brief summary of IP status and configuration			
route	Displays the IP routing table			
tunnel	Displays the IP tunnel information			
eogre	Displays the EoGRE tunnel information			
domain	Displays the EoGRE tunnel domain information			
forwarding-table	e Displays the EoGRE tunnel encapsulation and decapsulation information			
gateway	Displays the EoGRE tunnel gateway information			
fabric	Displays the IP fabric tunnel information			
summary	Displays the information for all tunnels			
sip-snooping	Displays the SIP snooping options.			
stats	Displays the transmitted and received SIP snooping statistics.			
status	Displays the SIP snooping status.			

Command Modes

User EXEC (>)

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.
8.9	This command was enhanced by adding the sip-snooping parameter.

The following example shows how to view information about the lists the IP access lists:

cisco-ap# show ip access-lists

show lacp

To view the Link Aggregation Control Protocol (LACP) options, use the **show lacp** command.

show lacp {counters internal neighbor

Syntax Description

counters	Displays traffic information
internal	Displays internal information
neighbors	Displays LACP neighbor entries

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view the LACP traffic information:

cisco-ap# show lacp counters

show logging

To view the contents of logging buffers, use the **show logging** command.

show logging

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view the contents of logging buffers:

cisco-ap# show logging

show memory

To display memory usage on an access point, use the **show memory** command.

show memory [{detail | pool | summary}]

Syntax Description

detail	Displays detailed system memory usage		
pool	Displays system memory pool		
summary	Display system memory usage statistics		

Command Modes

Privileged EXEC (#)

Command History

Release Modification 8.1.111.0 This command was introduced.

The following example shows how to view the system memory usage statistics:

cisco-ap# show memory

1030608	kΒ
713832	kΒ
710492	kΒ
0	kΒ
88224	kΒ
0	kΒ
28932	kΒ
82872	kΒ
28900	kΒ
82812	kΒ
32	kΒ
60	kΒ
0	kΒ
23580	
11380	kΒ
88132	kΒ
132140	kΒ
	kΒ
	kΒ
864	kΒ
748	kΒ
0	kΒ
	kΒ
0	kΒ
	kΒ
915324	kΒ
	713832 710492 0 88224 0 28932 82872 28900 82812 32 60 0 0 0 23580 11380 8132 132140 3368 128772 864 748 0 0

System Memory:

	total	used	free	shared	buffers
Mem:	1030608	316848	713760	0	0
-/+ buffe	ers:	316848	713760		
Swap:	0	0	0		

show policy-map

To view policy maps on access point, use the **show policy-map** command.

show policy-map

Command Modes

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view the policy maps on the access point:

cisco-apshow policy-map

show processes

To view process utilization details, use the **show processes** command.

showprocesses {cpu cpu-number | dmalloc {capwap | wcp} | status}

Syntax Description

cpu <i>cpu-number</i>	Displays the specified CPU's utilization of the processes; valid range of values for the CPU number is between 0 to 3
dmalloc	Displays the process utilization of the dmalloc processes
capwap	Displays dmalloc statistics for CAPWAP
wcp	Displays dmalloc statistics for WCP
status	Displays watchdog process status

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view the process watchdog status:

JISCO-ap#	snow processes	Status	
	Process	Alive	Monitored
	capwapd	True	True
	switchdrvr	True	False
	wcpd	True	True
	kclick	True	True
	cleanaird	True	True
	mrvlfwd	True	True

show processes memory

To display the processes on the access point, use the **show processes memory** command.

show processes memory {maps | smaps} pid pid-number

Syntax Description

maps Displays maps for the processe	
smaps	Displays smaps for the processes
pid pid-number	Process ID that you have to specify

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view the list of processes utilizing the memory on the access point:

cisco-ap# show processes memory

```
Mem total:1030608 anon:23876 map:11424 free:712728
 slab:132748 buf:0 cache:88284 dirty:0 write:0
Swap total:0 free:0
      VSZ^VSZRW RSS (SHR) DIRTY (SHR) STACK COMMAND
 6227 56500 53464 1168
                        732 1144
                                   732 132 /usr/sbin/mrvlfwd
 6283 27536 20668 13032 2400 13032 2400
                                          132 /usr/sbin/capwapd
 6297 24880 10612 14536
                        1376 14536
                                   1376
                                          132 wcpd
 62.55 9612
           6600 1508
                       1052 1508
                                   1052
                                          132 /usr/sbin/cleanaird
5122 9556
           4144 2664 2012 2664 2012
                                          132 /usr/bin/capwap brain
29097
      7148 1536 3560 2392 3556 2388
                                         132 /usr/sbin/cisco shell
 3142 6828 1216 2992 2264 2992 2264
                                          132 /usr/sbin/cisco shell
 5106
      4588
             404
                  1912
                       1644
                             1912
                                   1644
                                          132 /usr/bin/fastcgi -s /tmp/fcgi sock
                             1912 1644
 5108
      4588
             404
                  1912
                       1644
                                          132 /usr/bin/slowfcgi -s /tmp/slow_fcgi_sock
 6084 4544
             452
                  928
                        360
                             928
                                   360
                                          132 /usr/sbin/lighttpd -f /etc/lighttpd.conf
 6214 3692
             344 1420
                        960 1420
                                    960
                                          132 tamd proc ap-tam 1 0 -debug err
 6213 3556
             340 1460 1104 1460 1104
                                          132 tams proc -debug err
      3396
                 1196
                        976
                             1196
                                    976
 6133
             400
                                          132 /usr/bin/poder agent
 4689
      3176
             336
                  1012
                        812
                             1012
                                    812
                                          132 /usr/bin/sync log /storage/syslogs/13
                 1428 1204
                                   1204
 6143 3140
             304
                             1428
                                          132 /usr/bin/failover
 4716 3136
             284
                  616
                        436
                             616
                                   436
                                          132 watchdogd
 6121 3116
             280
                  988
                        820
                              988
                                    820
                                          132 bigacl d
                  952
 5084 3112
             2.72
                        804
                             952
                                    804
                                          132 /usr/bin/led core
      1884
             320
                  1044
                        260
                             1044
                                    260
                                          132 perl /usr/bin/drt.pl
   1
      1596
             196
                  492
                        412
                              492
                                    412
                                          132 init
30914 1596
             196
                              428
                                    344
                                          132 top -m -b -n 1
                   428
                        344
 6145 1596
             196
                   248
                       176
                              248
                                    176
                                          132 {S80cisco} /bin/sh /etc/init.d/S80cisco
start
30912 1592
             192
                  424
                        356
                              424
                                    356
                                          132 {show_process_me} /bin/ash
/usr/bin/cli scripts/show process memory.sh 0 0 0 0 0 0 0 0 0
30911 1592
            192 400 336
                             400
                                   336
                                         132 /bin/sh -c
/usr/bin/cli_scripts/show_process_memory.sh 0 0 0 0 0 0 0 0 0 0 more
```

```
4684 1592
             192
                  368
                        304
                             368
                                   304
                                        132 syslogd -S -s 100 -b 1 -L -R 255.255.255.255
30913 1592
                                         132 more
             192
                   332
                        264
                              332
                                    264
                                          132 klogd
4688 1584
             184
                   344
                         284
                               344
                                    284
4686 1584
             184
                   320
                         264
                               320
                                    264
                                          132 printkd
30906 1584
             184
                   284
                         228
                              284
                                    228
                                          132 sleep 10
29085 1452
             332
                   640
                        416
                              640
                                    416
                                          132 /usr/sbin/dropbear -E -j -k -d
/storage/dropbear/dropbear_dss_host_key -r /storage/dropbear/dropbear_rsa_host_key
                                   364
                                         132 /usr/sbin/dropbear -E -j -k -d
6209 1384
             264
                   416
                        364
                             416
/storage/dropbear/dropbear dss host key -r /storage/dropbear/dropbear rsa host key
8411 1096
            212
                   444
                        336 444 336 132 dnsmasq -C /etc/dnsmasq.host.conf
 6115 1096
             212
                   436
                        340
                              436
                                   340
                                         132 dnsmasq -C /etc/dnsmasq.vaperr.conf
```

show rrm

To view the Radio Resource Management (RRM) properties, use the **show rrm** command.

show rrm {hyperlocation [level1-list] | neighbor-list [details] | receive {configuration | statistics}}

Syntax Description

hyperlocation level1-list	Displays status of Cisco Hyperlocation on the AP
neighbor-list	Displays neighbor-list statistics
receive	Receive signal strength indicator (RSSI) of the AP
rogue	Displays rogue-related information

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

Usage Guidelines

The following example shows how to view the level 1 channel scan list in Hyperlocation:

cisco-ap# show rrm hyperlocation level1-list

Level-1 List for 2.4GHz Band

Channel Width Serving MAC Max Clients

Level-1 List for 5GHz Band

Channel Width Serving MAC Max Clients

show rrm rogue containment

To view rogue containment information on an access point, use the **show rrm rogue containment** command.

show rrm rogue containment {ignore | info} Dot11Radio radio-interface-number

Syntax Description

ignore	Displays list of rogue APs that are configured to be ignored	
info	Displays rogue containment configuration and statistics for an AP	
Dot11Radio	Specifies the Dot11Radio interface keyword.	
radio-interface-number	Slot of the radio interface; valid values are 0 and 1	

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view the rogue containment and statistics for the 802.11 interface numbered 1:

```
cisco-ap# show rrm rogue containment info Dot11Radio 1
Rogue Containment Info and Stats for slot 1:
bssid client-addr contain-type channels
```

```
Request Status count
              Submit
             Success
             Timeout
                         0
               Error
                         0
               Tuned
                         0
             Flushed
                         0
         Bad Channel
        Tail Dropped
                         0
           Cancelled
                         0
NDP DFS Tx Cancelled
                         0
           Tx Failed
                         0
             Created
                         0
```

show rrm rogue detection

To view RRM rogue detection configuration parameters, use the **show rrm rogue detection** command.

show rrm rogue detection {adhoc | ap | clients | config | rx-stats} Dot11Radio radio-interface-number

Syntax Description

adhoc	Displays the primary ad hoc rogue AP list for a 802.11 radio slot; valid values are 0 and 1
ap	Displays rogue detection parameters for the AP for a 802.11 radio slot; valid values are 0 and 1
clients	Displays primary list of rogue clients
config	Displays rogue detection configuration on the AP
rx-stats	Displays rogue detection receive statistics on the 802.11 interfaces of an AP
Dot11Radio	Specifies 802.11 radio intereface
radio-interface-number	The 802.11 radio interface number; valid values are 0 and 1

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to view the RRM rogue detection configuration details:

cisco-ap# show rrm rogue detection config

```
Rogue Detection Configuration for Slot 0:
Rogue Detection Mode : Enabled
Rogue Detection Report Interval: 10
Rogue Detection Minimum Rssi : -90
Rogue Detection Transient Interval: 0
Rogue Detection Flex Contain : Disabled
Roque Detection Flex Contain Adhoc : Disabled
Rogue Detection Flex Contain SSID : Disabled
Rogue Containment Autorate : Disabled
Scan Duration: 180000
Channel Count : 11
Transient Threshold: 0
Rogue Detection Configuration for Slot 1:
Rogue Detection Mode : Enabled
Rogue Detection Report Interval: 10
Rogue Detection Minimum Rssi : -90
Roque Detection Transient Interval: 0
Rogue Detection Flex Contain : Disabled
Rogue Detection Flex Contain Adhoc : Disabled
Roque Detection Flex Contain SSID : Disabled
Rogue Containment Autorate : Disabled
```

Scan Duration : 180000 Channel Count : 25 Transient Threshold : 0

show running-config

To display the contents of the currently running configuration on the access point, use the **show running-config** command.

show running-config

Command Modes

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view the contents of the currently running configuration on the access point:

cisco-ap# show running-config

```
AP Name
                          : ap1540
Admin State
                         : Enabled
AP Mode
                         : Local
AP Submode
                         : None
Reboot Reason
                         : default location
                          : Config Mwar
Primary controller name : cisco_3504
Primary controller IP : <controller-ip-address>
Secondary controller name :
Secondary controller IP
Tertiary controller name
Tertiary controller IP
Controller from DHCP offer : <controller-dhcp-server-address>
Controller from DNS server : <controller-dns-server-address>
AP join priority : 1
                : IPv4 : Unconfigured
IP Prefer-mode
CAPWAP UDP-Lite
Last Joined Controller name: wlc3504
DTLS Encryption State : Disabled
                         : 10
Discovery Timer : 10
Heartbeat Timer : 30
CDP State : Enabled
Watchdog monitoring : Enabled
Discovery Timer
                         : Disabled
RRM State
                         : Enabled
                         : Disabled
LSC State
                         : Enabled
SSH State
AP Username
                          : admin
                        : 0
Session Timeout
Extlog Host
                        : 0.0.0.0
                        : 0
Extlog Flags
Extlog Status Interval : 0
              : <syslog-host-ip-address>
: 0
Syslog Host
Syslog Facility
                         : errors
Syslog Level
Core Dump TFTP IP Addr
Core Dump File Compression : Disabled
Core Dump Filename :
Client Trace Status
                         : Enabled(All)
```

Client Trace All Clients : Enabled
Client Trace Filter : 0x0000000E
Client Trace Out ConsoleLog: Disabled
WLC Link LAG status : Disabled
AP Link LAG status : Disabled
AP WSA Mode : Disabled

show spectrum

To view the show commands of the spectrum firmware, use the **show spectrum** command.

show spectrum {list | recover | status }

Syntax Description

list	Lists the spectrum FW data files
recover	Displays the spectrum FW recover count
status	Displays the spectrum FW status

Command Modes

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view the spectrum firmware status:

cisco-ap# show spectrum status

```
Spectrum FW status slot 0:
  version: 1.15.4
 status: up, crashes 0, resets 0, radio reloads 0 load: 37.00 34.75 33.50 33.25
 NSI Key: 26c1bd25893a4b6dd3a00fe71735d067
           not configured
  reg_wdog: 255 26309 0
  dfs_wdog: 0
  dfs freq: 0
Spectrum FW status slot 1:
  version: 1.15.4
  status: up, crashes 0, resets 0, radio reloads 0
            37.25 38.00 38.75 39.00
  load:
  NSI Key: 26c1bd25893a4b6dd3a00fe71735d067
            not configured
  reg_wdog: 255 26309 0
  dfs wdog: 0
  dfs freq: 0
```

show tech-support

To automatically run show commands that display system information, use the **show tech-support** command.

show tech-support

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
8.1.111.0	This command was introduced.

The following example shows how to automatically run show commands that display system information:

cisco-ap# show tech-support

show version

To view the software version information of the AP, use the **show version** command.

show version

Command Modes

Privileged EXEC (#)

Command History

Release	Modification

8.1.111.0 This command was introduced.

The following example shows how to view the software version information of the AP:

cisco-ap# show version

show trace dot11_chn

To view off-channel events on 802.11 channel of an AP, use the **show trace dot11_chn** command.

show trace dot11_chn {enable | disable | statistics}

Syntax Description

enable	Enables displaying of off-channel events on the 802.11 radio 0 and 1
disable	Disables displaying of off-channel events on the 802.11 radios 0 and 1
statistics	Displays off-channel event statistics on 802.11 radios 0 and 1

Command Modes

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

Examples

The following example shows how to view off-channel event statistics on 802.11 radios:

```
cisco-ap# show trace dot11_chn statistics
```

```
Dot11Radio0 Off-Channel Statistics:
total_count in_prog_count last-chan last-type last-dur
0 0 0 0 0

Dot11Radio1 Off-Channel Statistics:
total_count in_prog_count last-chan last-type last-dur
```

show trace

To view trace logs on the AP, use the **show trace** command.

show trace

Command Modes

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view the trace logs on the AP:

cisco-ap# show trace

show wips

To view details of the AP that is configured in wIPS mode, use the **show wips** command.

show wips {alarm alarm-id | analyzer | buffer | channel channelno | infrastructure-device | neighbors | node mac mac-address | node number number | object | policy policy-id | policy ssid | session mac-address | stats | violation node mac-address | violation channel channel-number}

Syntax Description

alarm	Displays statistics of the configured alarm if the AP is configured in wIPS mode; valid values are between 0 and 255
alarm-id	Alarm ID; valid values are between 0 and 255
analyzer	Displays analyzer related statistics
buffer	Displays statistics of the buffer
channel	Displays channel related statistics
channelno	Channel number; valid values are between 0 and 255
infrastructure-device	Displays AP infrastructure information
neighbors	Displays statistics of neighbors.
node	Displays AP node information
mac mac-address	MAC address of the node.
node	Node.
number number	Node number; valid values are between 1 and 500
object	AP object store
policy {policy-id ssid	AP policy; you must specify either a policy ID or the policy SSID.
session mac-address	Displays node session details; you must enter the MAC address of the node
stats	Displays AP statistics
violation	Tracks AP violations
node mac-address	Tracks node-based violations
channel channel-number alarm-id	Tracks channel-based violations; you must enter channel numbeer and alarm ID

Command Modes

Privileged EXEC (#)

Command History

Release Modification

8.1.111.0 This command was introduced.

The following example shows how to view the wIPS statistics information on the AP:

cisco-ap# show wips stats