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show I2tp

To display Layer 2 Tunneling Protocol (L2TP) sessions, use the **show l2tp** command.

show l2tp { **summary** | *ip_address* }

Syntax Description

summary	Displays all L2TP sessions.
ip_address	IP address.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display a summary of all L2TP sessions:

(Cisco Controller) > show 12tp summary

LAC_IPaddr LTid LSid RTid RSid ATid ASid State

show lag eth-port-hash

To display the physical port used for specific MAC addresses, use the **show lag eth-port-hash** command.

show lag eth-port-hash dest_MAC [source_MAC]

Syntax Description	dest_MAC	MAC address to determine output port for non-IP packets.
	source_MAC	(Optional) MAC address to determine output port for non-IP packets.
	_	

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to display the physical port used for a specific MAC address:

(Cisco Controller) > show lag eth-port-hash 11:11:11:11:11:11 Destination MAC 11:11:11:11:11:11 currently maps to port 1

show lag ip-port-hash

To display the physical port used for specific IP addresses, use the **show lag ip-port-hash** command.

show lag ip-port-hash dest_IP [source_IP]

Syntax Description

dest_IP	IP address to determine the output port for IP packets.
source_IP	(Optional) IP address to determine the output port for IP packets.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.
8.0	This command supports both— IPv4 and IPv6 addresses.

Usage Guidelines

For CAPWAP packets, enter the IP address of the access points. For EOIP packets, enter the IP address of the controller. For WIRED_GUEST packets, enter its IP address. For non tunneled IP packets from WLC, enter the destination IP address. For other non tunneled IP packets, enter both destination and source IP addresses.

This command is applicable for both IPv4 and IPv6 addresses.

The following example shows how to display the physical port used for a specific IP address:

(Cisco Controller) > show lag ip-port-hash 192.168.102.138

Destination IP 192.168.102.138 currently maps to port 1

show lag summary

To display the current link aggregation (LAG) status, use the **show lag summary** command.

show lag summary

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to display the current status of the LAG configuration:

(Cisco Controller) > **show lag summary** LAG Enabled

show Idap

To display the Lightweight Directory Access Protocol (LDAP) server information for a particular LDAP server, use the **show ldap** command.

show ldap index

Syntax Description

index

LDAP server index. Valid values are from 1 to 17.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to display the detailed LDAP server information:

(Cisco Controller) > show ldap 1

Server Index	1
Address	2.3.1.4
Port	389
Enabled	Yes
User DN	name1
User Attribute	
User Type	username1
Retransmit Timeout	3 seconds
Bind Method	Anonymous

Related Commands

config ldap

config ldap add

config ldap simple-bind

show ldap statistics

show ldap summary

show Idap statistics

To display all Lightweight Directory Access Protocol (LDAP) server information, use the **show ldap statistics** command.

show ldap statistics

Syntax Description

This command has no arguments or keywords.

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display the LDAP server statistics:

```
(Cisco Controller) > show ldap statistics
Server Index.....
Server statistics:
Initialized OK...... 0
Initialization failed.....
Initialization retries.....
Closed OK.....
Request statistics:
Received.....
Success....
Authentication failed......
Server not found.....
No received attributes.....
No passed username.....
Not connected to server..... 0
Retries....
```

Related Commands

config ldap add
config ldap simple-bind
show ldap
show ldap summary

show Idap summary

To display the current Lightweight Directory Access Protocol (LDAP) server status, use the **show ldap summary** command.

show ldap summary

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to display a summary of configured LDAP servers:

(Cisco	Controller) > show	ldap sum	mary
Idx	Server Address	Port	Enabled
1	2.3.1.4	389	Yes
2	10.10.20.22	389	Yes

Related Commands

config ldap

config ldap add

config ldap simple-bind

show ldap statistics

show ldap

show license all

To display information for all licenses on the Cisco WLCs, use the **show license all** command.

show license all

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display all the licenses:

> show license all

```
License Store: Primary License Storage
StoreIndex: 0 Feature: wplus-ap-count
                                        Version: 1.0
       License Type: Permanent
        License State: Inactive
       License Count: 12/0/0
       License Priority: Medium
StoreIndex: 1 Feature: base
                               Version: 1.0
       License Type: Permanent
       License State: Active, Not in Use
       License Count: Non-Counted
       License Priority: Medium
StoreIndex: 2 Feature: wplus
                                Version: 1.0
       License Type: Permanent
       License State: Active, In Use
       License Count: Non-Counted
       License Priority: Medium
License Store: Evaluation License Storage
StoreIndex: 0 Feature: wplus Version: 1.0
       License Type: Evaluation
        License State: Inactive
           Evaluation total period: 8 weeks 4 days
           Evaluation period left: 6 weeks 6 days
       License Count: Non-Counted
       License Priority: Low
StoreIndex: 1 Feature: wplus-ap-count
                                        Version: 1.0
       License Type: Evaluation
        License State: Active, In Use
           Evaluation total period: 8 weeks 4 days
           Evaluation period left: 2 weeks 3 days
           Expiry date: Thu Jun 25 18:09:43 2009
        License Count: 250/250/0
        License Priority: High
StoreIndex: 2 Feature: base
                              Version: 1.0
        License Type: Evaluation
        License State: Inactive
           Evaluation total period: 8 weeks 4 days
           Evaluation period left: 8 weeks 4 days
        License Count: Non-Counted
       License Priority: Low
StoreIndex: 3 Feature: base-ap-count
                                        Version: 1.0
       License Type: Evaluation
        License State: Active, Not in Use, EULA accepted
            Evaluation total period: 8 weeks 4 days
           Evaluation period left: 8 weeks 3 days
        License Count: 250/0/0
        License Priority: Low
```

This example shows how to view all the licenses on the Smart License mechanism:

```
(Cisco Controller) > show license all
Smart Licensing Status
Smart Licensing is ENABLED
Registration:
 Status: REGISTERED
 Smart Account: vWLC-Prod
 Virtual Account: Default
 Export-Controlled Functionality: Allowed
 Initial Registration: SUCCEEDED on Dec 11 12:19:38 2015 UTC
 Last Renewal Attempt: None
 Next Renewal Attempt: Jun 08 12:19:37 2016 UTC
 Registration Expires: Dec 10 12:16:56 2016 UTC
License Authorization:
  Status: AUTHORIZED on Dec 11 12:20:12 2015 UTC
 Last Communication Attempt: SUCCEEDED on Dec 11 12:20:12 2015 UTC
 Next Communication Attempt: Jan 10 12:20:11 2016 UTC
  Communication Deadline: Mar 10 12:17:43 2016 UTC
--More-- or (q)uit
License Usage
_____
No licenses in use
Product Information
_____
UDI: PID:AIR-CTVM-K9, SN:91U8NQ5XDBE
Agent Version
_____
Smart Agent for Licensing: 1.4.0_{\text{rel}}/25
Component Versions: SA:1.4, SI:0.1, CH:rel 1, PK:x.x
```

show license capacity

To display the maximum number of access points allowed for this license on the Cisco 5500 Series Controller, the number of access points currently joined to the controller, and the number of access points that can still join the controller, use the **show license capacity** command.

show license capacity

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the license capacity:

> show license capacity

Licensed Feature	Max Count	Current Count	Remaining Count
AP Count	250	47	203

Related Commands

license install

show license all

show license detail

show license feature

show license image-level

show license summary

license modify priority

show license detail

To display details of a specific license on the Cisco 5500 Series Controller, use the **show license detail** command.

show license detail license-name

Syntax Description

license-name

Name of a specific license.

Command Default

None.

This example shows how to display the license details:

> show license detail wplus

```
Feature: wplus
                       Period left: Life time
Index: 1
           Feature: wplus Version: 1.0
       License Type: Permanent
       License State: Active, In Use
       License Count: Non-Counted
       License Priority: Medium
       Store Index: 2
       Store Name: Primary License Storage
Index: 2
           Feature: wplus Version: 1.0
       License Type: Evaluation
       License State: Inactive
           Evaluation total period: 8 weeks 4 days
           Evaluation period left: 6 weeks 6 days
       License Count: Non-Counted
       License Priority: Low
       Store Index: 0
```

Related Commands

license install

show license agent

show license all

show license feature

show license image-level

show license summary

license modify priority

show license expiring

To display details of expiring licenses on the Cisco 5500 Series Controller, use the **show license expiring** command.

show license expiring

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the details of the expiring licenses:

> show license expiring

```
StoreIndex: 0 Feature: wplus
                               Version: 1.0
       License Type: Evaluation
       License State: Inactive
           Evaluation total period: 8 weeks 4 days
           Evaluation period left: 6 weeks 6 days
       License Count: Non-Counted
       License Priority: Low
StoreIndex: 1 Feature: wplus-ap-count Version: 1.0
       License Type: Evaluation
       License State: Active, In Use
           Evaluation total period: 8 weeks 4 days
           Evaluation period left: 2 weeks 3 days
           Expiry date: Thu Jun 25 18:09:43 2009
       License Count: 250/250/0
       License Priority: High
StoreIndex: 2 Feature: base
                               Version: 1.0
       License Type: Evaluation
       License State: Inactive
           Evaluation total period: 8 weeks 4 days
           Evaluation period left: 8 weeks 4 days
       License Count: Non-Counted
       License Priority: Low
StoreIndex: 3 Feature: base-ap-count Version: 1.0
       License Type: Evaluation
       License State: Active, Not in Use, EULA accepted
           Evaluation total period: 8 weeks 4 days
           Evaluation period left: 8 weeks 3 days
       License Count: 250/0/0
       License Priority: Low
```

Related Commands

license install

show license all

show license detail

show license in-use

show license summary

license modify priority

show license evaluation

To display details of evaluation licenses on the Cisco 5500 Series Controller, use the **show license evaluation** command.

show license evaluation

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the details of the evaluation licenses:

> show license evaluation

```
StoreIndex: 0 Feature: wplus
                               Version: 1.0
       License Type: Evaluation
       License State: Inactive
           Evaluation total period: 8 weeks 4 days
           Evaluation period left: 6 weeks 6 days
       License Count: Non-Counted
       License Priority: Low
StoreIndex: 1 Feature: wplus-ap-count Version: 1.0
       License Type: Evaluation
       License State: Active, In Use
           Evaluation total period: 8 weeks 4 days
           Evaluation period left: 2 weeks 3 days
           Expiry date: Thu Jun 25 18:09:43 2009
       License Count: 250/250/0
       License Priority: High
StoreIndex: 2 Feature: base
                               Version: 1.0
       License Type: Evaluation
       License State: Inactive
           Evaluation total period: 8 weeks 4 days
           Evaluation period left: 8 weeks 4 days
       License Count: Non-Counted
       License Priority: Low
StoreIndex: 3 Feature: base-ap-count Version: 1.0
       License Type: Evaluation
       License State: Active, Not in Use, EULA accepted
           Evaluation total period: 8 weeks 4 days
           Evaluation period left: 8 weeks 3 days
       License Count: 250/0/0
       License Priority: Low
```

Related Commands

license install

show license all

show license detail

show license expiring

show license in-use

show license summary

license modify priority

show license feature

To display a summary of license-enabled features on the Cisco 5500 Series Controller, use the **show license feature** command.

show license feature

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the license-enabled features:

> show license feature

Feature name	Enforcement	Evaluation	Clear Allowed	Enabled
wplus	yes	yes	yes	yes
wplus-ap-count	yes	yes	yes	yes
base	no	yes	yes	no
base-ap-count	ves	ves	ves	no

Related Commands

license install

show license all

show license detail

show license expiring

show license image-level

show license in-use

show license summary

show license modify priority

show license file

To display a summary of license-enabled features on the Cisco 5500 Series Controller, use the **show license file** command.

show license file

Syntax Description

This command has no arguments or keywords.

This example shows how to display the license files:

```
> show license file
License Store: Primary License Storage
Store Index: 0
   License: 11 wplus-ap-count 1.0 LONG NORMAL STANDALONE EXCL 12_KEYS INFINIT
        E_KEYS NEVER NEVER NIL SLM_CODE CL_ND_LCK NIL *1AR5NS7M5AD8PPU400
        NiL NiL 5_MINS <UDI><PID>AIR-CT5508-K9</PID><SN>RFD000P2D27<
        /SN></UDI> Pe0L7tv8KDUqo:zlPe423S5wasgM8G,tTs0i,7zLyA3VfxhnIe5aJa
        m631R518JM3DPkr402D143iLlKn7jomo3RF11LjMRqLkKhiLJ2tOyuftQsq2bCA06
        nR3wIb38xKi3t$<WLC>AQEBIQAB//++mCzRUbOhw28vz0czAY0iAm7ocDLUMb9ER0
        +BD3w2PhNEYwsBN/T3xXBqJqfC+oKRqwInXo3s+nsLU7rOtdOxoIxYZAo3LYmUJ+M
        FzsqlhKoJVlPyEvQ8H21MNUjVbhoN0gyIWsyiJaM8AQIkVBQFzhr10GYolVzdzfJf
        EPQIx6tZ++/Vtc/q3SF/5Ko8XCY=</WLC>
Comment:
        Hash: iOGjuLlXgLhcTB113ohIzxVioHA=
```

Related Commands

license install

show license all

show license detail

show license expiring

show license feature

show license image-level

show license in-use

show license summary

show license handle

To display the license handles on the Cisco 5500 Series Controller, use the **show license handle** command.

show license handle

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the license handles:

```
> show license handle
Feature: wplus
                                         , Handle Count: 1
   Units: 01(0), ID: 0x5e000001, NotifyPC: 0x1001e8f4 LS-Handle (0x00000001),
Units: (1)
   Registered clients: 1
       Context 0x1051b610, epID 0x10029378
                                        , Handle Count: 0
Feature: base
   Registered clients: 1
       Context 0x1053ace0, epID 0x10029378
                                        , Handle Count: 1
Feature: wplus-ap-count
    Units: 250(0), ID: 0xd4000002, NotifyPC: 0x1001e8f4
                                                               LS-Handle (0x000
00002), Units: (250)
   Registered clients: None
Feature: base-ap-count
                                         , Handle Count: 0
   Registered clients: None
Global Registered clients: 2
               Context 0x10546270, epID 0x100294cc
               Context 0x1053bae8, epID 0x100294cc
```

Related Commands

license install

show license all

show license detail

show license expiring

show license feature

show license image-level

show license in-use

show license summary

show license image-level

To display the license image level that is in use on the Cisco 5500 Series Controller, use the **show license** image-level command.

show license image-level

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the image level license settings:

> show license image-level

```
Module name Image level Priority Configured Valid license whou wplus 1 YES wplus base 2 NO

NOTE: wplus includes two additional features: Office Extend AP, Mesh AP.
```

Related Commands

license install

show license all

show license detail

show license expiring

show license feature

license modify priority

show license in-use

show license summary

show license in-use

To display the licenses that are in use on the Cisco 5500 Series Controller, use the **show license in-use** command.

show license in-use

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the licenses that are in use:

```
> show license in-use
```

```
StoreIndex: 2 Feature: wplus Version: 1.0

License Type: Permanent

License State: Active, In Use

License Count: Non-Counted

License Priority: Medium

StoreIndex: 1 Feature: wplus-ap-count Version: 1.0

License Type: Evaluation

License State: Active, In Use

Evaluation total period: 8 weeks 4 days

Evaluation period left: 2 weeks 3 days

Expiry date: Thu Jun 25 18:09:43 2009

License Count: 250/250/0

License Priority: High
```

Related Commands

license install

show license all

show license detail

show license expiring

show license feature

show license image-level

show license modify priority

show license summary

show license permanent

show license permanent

To display the permanent licenses on the Cisco 5500 Series Controller, use the **show license permanent** command.

show license permanent

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the permanent license's information:

> show license permanent

```
StoreIndex: 0 Feature: wplus-ap-count Version: 1.0
       License Type: Permanent
       License State: Inactive
       License Count: 12/0/0
       License Priority: Medium
StoreIndex: 1 Feature: base
                              Version: 1.0
       License Type: Permanent
       License State: Active, Not in Use
       License Count: Non-Counted
       License Priority: Medium
StoreIndex: 2 Feature: wplus Version: 1.0
       License Type: Permanent
       License State: Active, In Use
       License Count: Non-Counted
       License Priority: Medium
```

Related Commands

license install

show license all

show license detail

show license expiring

show license feature

show license image-level

show license in-use

show license summary

license modify priority

show license status

To display the license status on the Cisco Wireless Controller, use the **show license status** command.

show license status

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to view the **license status** on the RTU license mechanism:

> show license status

```
License Type Supported
permanent Non-expiring node locked license
extension Expiring node locked license
evaluation Expiring non node locked license
       License Operation Supported
install Install license
          Clear license
clear
annotate Comment license
save
          Save license
          Revoke license
revoke
       Device status
Device Credential type: DEVICE
Device Credential Verification: PASS
Rehost Type: DC OR IC
```

This example shows how to view the **license status** on the Smart License mechanism:

```
(Cisco Controller) >show license status
Smart Licensing is ENABLED
Registration:
  Status: REGISTERED
  Smart Account: vWLC-Prod
  Virtual Account: Default
  Export-Controlled Functionality: Allowed
  Initial Registration: SUCCEEDED on Dec 11 12:19:38 2015 UTC
  Last Renewal Attempt: None
  Next Renewal Attempt: Jun 08 12:19:37 2016 UTC
  Registration Expires: Dec 10 12:16:56 2016 UTC
License Authorization:
  Status: AUTHORIZED on Dec 11 12:20:12 2015 UTC
  Last Communication Attempt: SUCCEEDED on Dec 11 12:20:12 2015 UTC
  Next Communication Attempt: Jan 10 12:20:11 2016 UTC
  Communication Deadline: Mar 10 12:17:43 2016 UTC
```

show license statistics

To display license statistics on the Cisco 5500 Series Controller, use the **show license statistics** command.

show license statistics

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the license statistics:

> show license statistics

```
Administrative statistics
Install success count:
                          Ω
                            0
Install failure count:
Install duplicate count:
Comment add count:
                            0
Comment delete count:
Clear count:
                            0
Save count:
Save cred count:
       Client status
Request success count
Request failure count
Release count
                         0
                         0
Global Notify count
```

Related Commands

license install

show license all

show license detail

show license expiring

show license feature

show license image-level

show license in-use

show license summary

license modify priority

show license summary

To display a brief summary of all licenses on the Cisco WLCs, use the **show license summary** command.

show license summary

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display a brief summary of all licenses:

> show license summary

```
Index 1 Feature: wplus
       Period left: Life time
       License Type: Permanent
       License State: Active, In Use
       License Count: Non-Counted
       License Priority: Medium
Index 2 Feature: wplus-ap-count
       Period left: 2 weeks 3 days
       License Type: Evaluation
        License State: Active, In Use
       License Count: 250/250/0
       License Priority: High
Index 3 Feature: base
       Period left: Life time
       License Type: Permanent
       License State: Active, Not in Use
       License Count: Non-Counted
       License Priority: Medium
Index 4 Feature: base-ap-count
        Period left: 8 weeks 3 days
        License Type: Evaluation
       License State: Active, Not in Use, EULA accepted
       License Count: 250/0/0
       License Priority: Low
```

This example shows how to view the **license summary** on the Smart License mechanism:

```
(Cisco Controller) >show license summary
Smart Licensing is ENABLED

Registration:
   Status: REGISTERED
   Smart Account: vWLC-Prod
   Virtual Account: Default
   Export-Controlled Functionality: Allowed
   Last Renewal Attempt: None
   Next Renewal Attempt: Jun 08 12:19:38 2016 UTC

License Authorization:
   Status: AUTHORIZED
   Last Communication Attempt: SUCCEEDED
   Next Communication Attempt: Jan 10 12:20:11 2016 UTC
```

show license udi

To display unique device identifier (UDI) values for licenses on the Cisco WLCs, use the **show license udi** command.

show license udi

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to view the UDI values for licenses on the RTU license mechanism:

```
      (Cisco Controller) > show license udi

      Device# PID
      SN
      UDI

      *0
      AIR-CT5508-K9
      RFD000P2D27
      AIR-CT5508-K9:RFD000P2D27
```

This example shows how to view the UDI values for licenses on the Smart License mechanism:

```
(Cisco Controller) > show license udi
UDI: PID:AIR-CTVM-K9,SN:91U8NQ5XDBE
```

show license usage

To display the entitlement details and usage per handle and its entitlement tag, use the **show license usage** command.

show license usage

Command History

Release	Modification
8.2	This command was introduced in a 8.2 release.

This example shows how to display the entitlement details:

(Cisco Controller) >show license usage

show load-balancing

To display the status of the load-balancing feature, use the **show load-balancing** command.

show load-balancing

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the load-balancing status:

> show load-balancing

Aggressive Load Balancing	Enabled
Aggressive Load Balancing Window	0 clients
Aggressive Load Balancing Denial Count	3
Statistics	
Total Denied Count	10 clients
Total Denial Sent	20 messages
Exceeded Denial Max Limit Count	0 times
None 5G Candidate Count	0 times
None 2.4G Candidate Count	times

Related Commands

config load-balancing

show local-auth config

To display local authentication configuration information, use the **show local-auth config** command.

show local-auth config

Syntax Description

This command has no arguments or keywords.

Command Default

Vone

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display the local authentication configuration information:

```
(Cisco Controller) > show local-auth config
User credentials database search order:
Primary ..... Local DB
Configured EAP profiles:
Name ..... fast-test
Certificate issuer ..... default
Enabled methods ..... fast
Configured on WLANs ..... 2
EAP Method configuration:
EAP-TLS:
Certificate issuer ..... default
Peer verification options:
Check against CA certificates .... Enabled
Verify certificate CN identity .... Disabled
Check certificate date validity ... Enabled
EAP-FAST:
TTL for the PAC ..... 3 600
Initial client message ..... <none>
Local certificate required ..... No
Client certificate required ..... No
Vendor certificate required ..... No
Anonymous provision allowed ..... Yes
Authority Information ...... Test
EAP Profile..... tls-prof
Enabled methods for this profile ..... tls
EAP-TLS:
Certificate issuer used ..... cisco
Peer verification options:
Check against CA certificates .... disabled
```

Verify certificate CN identity disabled Check certificate date validity ... disabled

Related Commands

clear stats local-auth
config local-auth active-timeout
config local-auth eap-profile
config local-auth method fast
config local-auth user-credentials
debug aaa local-auth
show local-auth certificates
show local-auth statistics

show local-auth statistics

To display local Extensible Authentication Protocol (EAP) authentication statistics, use the **show local-auth statistics** command:

show local-auth statistics

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display the local authentication certificate statistics:

```
(Cisco Controller) > show local-auth statistics
Local EAP authentication DB statistics:
Responses returned ...... 14
Requests dropped (no EAP AVP) ..... 0
Requests dropped (other reasons) ..... 0
Authentication timeouts ...... 0
Authentication statistics:
 Method
             Success
                        Fail
 Unknown
                 0
 LEAP
                 0
                           Λ
 EAP-FAST
                 2
                 0
                           0
 EAP-TLS
 PEAP
                 0
                           0
Local EAP credential request statistics:
Requests sent to LDAP DB ...... 0
Requests sent to File DB .....
Requests failed (unable to send) ...... 0
Authentication results received:
 Success ..... 2
 Fail ..... 0
Certificate operations:
Local device certificate load failures ...... 0
Total peer certificates checked .....
Failures:
 CA issuer check ..... 0
 CN name not equal to identity ..... 0
 Dates not valid or expired ...... 0
```

Related Commands

clear stats local-auth

config local-auth active-timeout config local-auth eap-profile config local-auth method fast config local-auth user-credentials debug aaa local-auth show local-auth config show local-auth certificates

show local-auth certificates

To display local authentication certificate information, use the show local-auth certificates command:

show local-auth certificates

Syntax Description

This command has no arguments or keywords.

Command Default

Vone

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to display the authentication certificate information stored locally:

(Cisco Controller) > show local-auth certificates

Related Commands

clear stats local-auth

config local-auth active-timeout

config local-auth eap-profile

config local-auth method fast

config local-auth user-credentials

debug aaa local-auth

show local-auth config

show local-auth statistics

show logging

To display the syslog facility logging parameters and buffer contents, use the **show logging** command.

show logging

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to display the current settings and buffer content details:

```
(Cisco Controller) >show logging
(Cisco Controller) > config logging syslog host 10.92.125.52
System logs will be sent to 10.92.125.52 from now on
(Cisco Controller) > config logging syslog host 2001:9:6:40::623
System logs will be sent to 2001:9:6:40::623 from now on
(Cisco Controller) > show logging
Logging to buffer :
- Logging of system messages to buffer :
 - Logging filter level..... errors
 - Number of system messages logged...... 1316
 - Number of system messages dropped...... 6892
- Logging of debug messages to buffer ..... Disabled
 - Number of debug messages logged..... 0
 - Number of debug messages dropped..... 0
- Cache of logging ..... Disabled
- Cache of logging time (mins) ..... 10080
- Number of over cache time log dropped \hdots ..... 0
Logging to console :
- Logging of system messages to console :
 - Logging filter level..... disabled
 - Number of system messages logged..... 0
- Number of system messages dropped..... 8243
- Logging of debug messages to console ..... Enabled
 - Number of debug messages logged..... 0
 - Number of debug messages dropped..... 0
Logging to syslog :
- Syslog facility..... local0
- Logging of system messages to console :
- Logging filter level..... disabled
- Number of system messages logged..... 0
 - Number of system messages dropped...... 8208
- Logging of debug messages to console ..... Enabled
 - Number of debug messages logged..... 0
 - Number of debug messages dropped..... 0
- Logging of system messages to syslog :
 - Logging filter level..... errors
 - Number of system messages logged...... 1316
 - Number of system messages dropped...... 6892
```

- Logging of debug messages to syslog	Disabled
- Number of debug messages logged	0
- Number of debug messages dropped	0
- Number of remote syslog hosts	2
- syslog over tls	Disabled
- Host 0	10.92.125.52
- Host 1	2001:9:6:40::623
- Host 2	
Logging of RFC 5424	Disabled
Logging of Debug messages to file :	
- Logging of Debug messages to file	Disabled
- Number of debug messages logged	0
- Number of debug messages dropped	0
Logging of traceback	Enabled

show logging config-history

To view all the **config** commands executed from the time of reboot, use the **show logging config-history** command. This command is useful to understand the timestamp of execution of these commands, order of occurrence, source of command execution, and executed command history, which are lost after Cisco WLC reboot or after you clear all the configuration.

show logging config-history

Syntax Description

This command has no arguments or keywords.

Command History

Release	Modification
8.8	This command was introduced.

show logging last-reset

To display the logging buffer saved on last reset or power cycle of the controller, use the **show logging last-reset** command.

show logging last-reset

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
8.0	This command was introduced in 8.0.140.0.

show logging flags

To display the existing flags, use the **show logging flags** command.

show logging flags AP | Cilent

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the current flags details:

> show logging flags

ΙD	username	Connection Fr	om Idle Time	Login Time
00	admin	EIA-232	00:00:00	00:19:04

Related Commands

config logging flags close

show loginsession

To display the existing sessions, use the **show loginsession** command.

show loginsession

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the current session details:

> show loginsession

ID	username	Connection Fro	om Idle Time	Session Time
00	admin	EIA-232	00:00:00	00:19:04

Related Commands

config loginsession close

show macfilter

To display the MAC filter parameters, use the **show macfilter** command.

show macfilter { **summary** | **detail** *MAC* | **mesh** | { **wlan** *wlan-id* }]

Syntax Description

summary	Displays a summary of all MAC filter entries.
detail MAC	Displays details of a MAC filter entry.
mesh	Display a summary of all MESH AP MAC filter entries.
wlan wlan-id	Display a summary of all MAC filter entries on given wlan.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.
8.4	wlan wlan-id was added.

Usage Guidelines

The MAC delimiter (none, colon, or hyphen) for MAC addresses sent to RADIUS servers is displayed. The MAC filter table lists the clients that are always allowed to associate with a wireless LAN.

The following example shows how to display the detailed display of a MAC filter entry:

```
      (Cisco Controller)
      >show macfilter detail xx:xx:xx:xx:xx:xx

      MAC Address
      xx:xx:xx:xx:xx

      WLAN Identifier
      Any

      Interface Name
      management

      Description
      RAP
```

The following example shows how to display a summary of the MAC filter parameters:

```
(Cisco Controller) > show macfilter summary
MAC Filter RADIUS Compatibility mode..... Cisco ACS
MAC Filter Delimiter..... None
Local Mac Filter Table
MAC Address
                     WLAN Id
                                    Description
                     -----
                                   RAP
xx:xx:xx:xx:xx
                     Any
xx:xx:xx:xx:xx
                     Any
                                   PAP2 (2nd hop)
                                   PAP1 (1st hop)
xx:xx:xx:xx:xx
                     Any
```

show mdns ap summary

To display all the access points for which multicast Domain Name System (mDNS) forwarding is enabled, use the **show mnds ap summary** command.

show mdns ap summary

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.5	This command was introduced.

The following is a sample output of the **show mnds ap summary** command:

(Cisco Controller) > show mdns ap summary

Number of mDNS APs..... 2

AP Name	Ethernet MAC	Number of Vlans	VlanIdentifiers
ap-3500	cc:ef:48:72:0d:d9	0	Not applicable
ap-3600	00:22:bd:df:04:68	2	124,122

The following table describes the significant fields shown in the display.

Table 1: show mdns ap summary Field Descriptions

Field	Description
AP Name	Name of the mDNS access point (access point for which mDNS forwarding is enabled).
Ethernet MAC	MAC address of the mDNS access point.
Number of VLANs	Number of VLANs from which the access point snoops the mDNS advertisements from the wired side. An access point can snoop on a maximum of 10 VLANs.
VLAN Identifiers	Identifiers of the VLANs the access point snoops on.

show mdns domain-name-ip summary

To display the summary of the multicast Domain Name System (mDNS) domain names, use the **show mdns domain-name-ip summary** command.

show mdns domain-name-ip summary

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.5	This command was introduced.

Usage Guidelines

Each service advertisement contains a record that maps the domain name of the service provider to the IP address. The mapping also contains details such as the client MAC address, VLAN ID, Time to Live (TTL), and IPv4 address.

The following is a sample output of the **show mdns domain-name-ip summary** command:

The following table describes the significant fields shown in the display.

Table 2: show mdns domain-name-ip summary Field Descriptions

Field	Description
Domain Name	Domain name of the service provider.
MAC Address	MAC address of the service provider.
IP Address	IP address of the service provider.
VLAN ID	VLAN ID of the service provider.

Field	Description
Туре	Origin of service that can be one of the following:
	• Wired
	• Wireless
	Wired guest
	• mDNS AP
TTL	TTL value, in seconds, that determines the validity of the service offered by the service provider. The service provider is removed from the Cisco Wireless LAN Controller when the TTL expires.
Time Left	Time remaining, in seconds, before the service provider is removed from the Cisco WLC.

show mdns profile

To display mDNS profile information, use the **show mdns profile** command.

show mdns profile { **summary** | **detailed** *profile-name* }

Syntax Description

summary	Displays the summary of the mDNS profiles.
detailed	Displays details of an mDNS profile.
profile-name	Name of the mDNS profile.

Command Default

None

Command History

Release	Modification
7.4	This command was introduced.

This example shows how to display a summary of all the mDNS profiles:

> show mdns profile summary

This example shows how to display the detailed information of an mDNS profile:

> show mdns profile detailed default-mdns-profile

Profile Name. Profile Id. No of Services. Services.	1 5
No. Interfaces Attached	0 1

Related Commands

config mdns query interval config mdns service config mdns snooping config interface mdns-profile
config interface group mdns-profile
config wlan mdns
config mdns profile
show mdns ap
config mdns ap
show mnds service
clear mdns service-database
debug mdns all
debug mdns error
debug mdns detail
debug mdns message

show mdns service

To display multicast Domain Name System (mDNS) service information, use the **show mnds service** command.

show mdns service {summary | detailed service-name | not-learnt}

Syntax Description

summary	Displays the summary of all mDNS services.				
detailed	Displays the details of an mDNS service.				
service-name	Name of the mDNS service.				
not-learnt	Displays the summary of all the service advertisements that were received by the controller but were not discovered because the service query status was disabled.				
	Service advertisements for all VLANs and origin types that are not learned are displayed in the output. The top 500 services appear in the summary list.				

Command Default

None

Command History

Release	Modification
7.4	This command was introduced.
7.5	The not-learnt keyword was added.

The following is a sample output of the **show mnds summary** command:

Device > show mdns service summary

Number of Services..... 5

Service-Name		Origin	No SP Service-string		
AirPrint	Yes	Wireless	1	_ipptcp.local.	
AppleTV	Yes	Wireless	1	_airplaytcp.local.	
<pre>HP_Photosmart_Printer_1</pre>	Yes	Wireless	1	_universalsubipptcp.local.	
<pre>HP_Photosmart_Printer_2</pre>	No	Wired	0	_cupssubipptcp.local.	
Printer	No	Wired	0	_printertcp.local.	

The following is a sample output of the **show mnds service detailed** command:

Device > show mdns service detailed AirPrint

Number of Service Providers 2

Service Provi	der MAC-Address	AP Radio MAC	VLAN ID	Type	TTL	Time left
user1	60:33:4b:2b:a6:	9a	104	Wired	4500	4484
laptopa	00:21:1b:ea:36:6	50 3c:ce:73:1e:69:	:20 105	Wireless	4500	4484

Sl.No	MAC Address	AP group name
1	44:03:a7:a3:04:45	AP_floor1

The following is a sample output of the **show mnds service not-learnt**command:

Device > show mdns service not-learnt

Number of Services..... 4

Origin	VLAN	TTL	TTL left	Client MAC	AP-MAC
Service-str	ing				
			(sec)	(sec)	
Wireless	106	120	105	00:21:6a:76:88:04	04:da:d2:b3:11:00
100.106.11.	9.in-add	r.arpa.			
Wireless	106	120	112	00:21:6a:78:ff:82	04:da:d2:b3:11:00
102.106.11.	9.in-add	r.arpa.			
Wireless	106	120	75	00:21:6a:78:ff:82	04:da:d2:b3:11:00
108.104.11.	9.in-add	r.arpa.			
Wireless	106	120	119	00:21:6a:78:ff:82	04:da:d2:b3:11:00
airplayit.	tcp.loc	al.			

show media-stream client

To display the details for a specific media-stream client or a set of clients, use the **show media-stream client** command.

show media-stream client {media-stream_name | summary}

Syntax Description

media-stream_name	Name of the media-stream client of which the details is to be displayed.
summary	Displays the details for a set of media-stream clients.

Command Default

None.

This example shows how to display a summary media-stream clients:

> show media-stream client summary

Number of Clients.			1		
Client Mac	Stream Name	Stream Type	Radio WLAN	QoS	Status
00:1a:73:dd:b1:12	mountainview	MC-direct	2.4 2	Video	Admitted

Related Commands

show media-stream group summary

show media-stream group detail

To display the details for a specific media-stream group, use the **show media-stream group detail** command.

show media-stream group detail media-stream_name

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media-stream_name

Name of the media-stream group.

Command Default

None.

This example shows how to display media-stream group configuration details:

> show media-stream group detail abc

Media Stream Name	abc
Start IP Address	227.8.8.8
End IP Address	227.9.9.9
RRC Parameters	
Avg Packet Size(Bytes)	1200
Expected Bandwidth(Kbps)	300
Policy	Admit
RRC re-evaluation	periodic
QoS	Video
Status	Multicast-direct
Usage Priority	5
Violation	drop

Related Commands

show media-stream group summary

show media-stream group summary

To display the summary of the media stream and client information, use the **show media-stream group summary** command.

show media-stream group summary

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

This example shows how to display a summary of the media-stream group:

(Cisco Control	ller) > show me	dia-stream grou	o summary
Stream Name	Start IP	End IP	Operation Status
abc	227.8.8.8	227.9.9.9	Multicast-direct

Related Commands

show 802.11 media-stream client

show media-stream client

show media-stream group detail

show mesh ap

To display settings for mesh access points, use the **show mesh ap** command.

show mesh ap {summary | tree}

Syntax Description

summary	Displays a summary of mesh access point information including the name, model, bridge virtual interface (BVI) MAC address, United States Computer Emergency Response Team (US-CERT) MAC address, hop, and bridge group name.	
tree	Displays a summary of mesh access point information in a tree configuration, including the name, hop counter, link signal-to-noise ratio (SNR), and bridge group name.	

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display a summary format:

```
(Cisco Controller) >show mesh ap summary
                                                           Bridge Group Name
AP Name AP Model
                     BVI MAC
                                       CERT MAC
               ______
-----
SB_RAP1 AIR-LAP1522AG-A-K9 00:1d:71:0e:d0:00 00:1d:71:0e:d0:00 0 SB_MAP1 AIR-LAP1522AG-A-K9 00:1d:71:0e:85:00 00:1d:71:0e:85:00 1
                                                            sbox
                                                            sbox
SB MAP2 AIR-LAP1522AG-A-K9 00:1b:d4:a7:8b:00 00:1b:d4:a7:8b:00 2
                                                            sbox
SB MAP3 AIR-LAP1522AG-A-K9 00:1d:71:0d:ee:00 00:1d:71:0d:ee:00 3
                                                            sbox
Number of Mesh APs..... 4
Number of RAPs..... 1
Number of MAPs..... 3
```

The following example shows how to display settings in a hierarchical (tree) format:

show mesh astools stats

To display antistranding statistics for outdoor mesh access points, use the **show mesh astools stats** command.

show mesh astools stats [cisco_ap]

Syntax Description

cisco_ap

(Optional) Antistranding feature statistics for a designated mesh access point.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display anti-stranding statistics on all outdoor mesh access points:

(Cisco Controller) >show mesh astools stats Total No of Aps stranded : 0

The following example shows how to display anti-stranding statistics for access point *sb_map1*:

(Cisco Controller) >show mesh astools stats sb_map1
Total No of Aps stranded : 0

show mesh backhaul

To check the current backhaul information, use the show mesh backhaul command.

show mesh backhaul cisco_ap

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cisco_ap Na	me of the access poin	ıt.
-------------	-----------------------	-----

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display the current backhaul:

```
(Cisco Controller) >show mesh backhaul
```

If the current backhaul is 5 GHz, the output is as follows:

```
Basic Basic Attributes for Slot 0
  Radio Type..... RADIO_TYPE_80211g
  Radio Role..... DOWNLINK ACCESS
  Administrative State ..... ADMIN_ENABLED
  Operation State ..... UP
    Current Tx Power Level ...... 1
If the current backhaul is 2.4 GHz, the output is as follows:
Basic Attributes for Slot 1
  Radio Type..... RADIO TYPE 80211a
  Radio Subband...... RADIO SUBBAND ALL
  Radio Role..... DOWNLINK ACCESS
  Administrative State ..... ADMIN ENABLED
  Operation State ...... UP
    Current Tx Power Level ...... 1
    Current Channel ...... 165
   Antenna Type..... EXTERNAL ANTENNA
   External Antenna Gain (in .5 dBm units).... 0
Current Channel......6
Antenna Type......Externa ANTENNA
External Antenna Gain (in .5 dBm units).....0
```

show mesh bgscan

To see the details of mesh background scan, use the **show mesh bgscan** command.

show mesh bgscan

Syntax Description

This command has no keywords or arguments.

Command Default

None

Command Modes

Privileged EXEC (#)

Command History

Release Modification

8.3 This command was introduced.

Example

Cisco Controller# show mesh bgscan

Background Scanning: enabled

Off Channel Neighbors

Channel:165

Mac:5835.d9aa.9acf MissCnt:0 NDRespCnt:1078 HopCnt:1 AdjustedEase:4096

Flags: NEIGH BEACON

Mac:5017.ffdc.2eaf MissCnt:0 NDRespCnt:38 HopCnt:1 AdjustedEase:18648576 StickyEase:23448576

Flags: NEIGH PARENT BEACON

Channel:157

Mac:ece1.a930.bc8f MissCnt:0 NDRespCnt:5 HopCnt:1 AdjustedEase:3048576

Flags: NEIGH BEACON

Channel:161

Mac:f8c2.8883.fadf MissCnt:0 NDRespCnt:20 HopCnt:1 AdjustedEase:262144

Flags: NEIGH

Aligned Offchannel neighbors

Channel:165 (ON-CHANNEL)

Mac:5017.ffdc.2eaf Ease:18648576

Mac:5835.d9aa.9acf Ease:4096

Channel:157 (POTENTIAL OFFCHAN

NEL)

Mac:ece1.a930.bc8f Ease:3048576

Mac:0021.d8d6.a6cf Ease:0

Channel:161

Mac:f8c2.8883.fadf Ease:262144

show mesh cac

To display call admission control (CAC) topology and the bandwidth used or available in a mesh network, use the **show mesh cac** command.

 $show \ mesh \ cac \ \{summary \mid \{bwused \ \{voice \mid video\} \mid access \mid callpath \mid rejected\} \\ cisco_ap\}$

Syntax Description

summary	Displays the total number of voice calls and voice bandwidth used for each mesh access point.	
bwused	Displays the bandwidth for a selected access point in a tree topology.	
voice	Displays the mesh topology and the voice bandwidth used or available.	
video	Displays the mesh topology and the video bandwidth used or available.	
access	Displays access voice calls in progress in a tree topology.	
callpath	Displays the call bandwidth distributed across the mesh tree.	
rejected Displays voice calls rejected for insufficient bandwidth in a tree topology.		
cisco_ap	Mesh access point name.	

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display a summary of the call admission control settings:

(Cisco Controller)	>show mesh	cac su	mmary	
AP Name	Slot#	Radio	BW Used/Max	Calls
SB_RAP1	0	11b/g	0/23437	0
	1	11a	0/23437	0
SB_MAP1	0	11b/g	0/23437	0
	1	11a	0/23437	0
SB_MAP2	0	11b/g	0/23437	0
	1	11a	0/23437	0
SB MAP3	0	11b/g	0/23437	0
_	1	11a	0/23437	0

The following example shows how to display the mesh topology and the voice bandwidth used or available:

(Cisco Contro	oller) > s	how mesh	cac bwused	voice SB_MAP1
AP Name		Slot#	Radio	BW Used/Max
	-			
SB_RAP1		0	11b/g	0/23437
		1	11a	0/23437
SB_MAP1		0	11b/g	0/23437
		1	11a	0/23437

SB MAP2	0	11b/g	0/23437
	1	11a	0/23437
SB MAP3	0	11b/g	0/23437
_	1	11a	0/23437

The following example shows how to display the access voice calls in progress in a tree topology:

(Cisco Controller) AP Name		cac access Radio	1524_Map1 Calls
1524 Rap	0	11b/a	0
_ +	1	11a	0
	2	11a	0
1524 Map1	0	11b/g	0
_	1	11a	0
	2	11a	0
1524 Map2	0	11b/g	0
-	1	11a	0
	2	11a	0

show mesh client-access

To display the backhaul client access configuration setting, use the show mesh client-access command.

show mesh client-access

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display backhaul client access configuration settings for a mesh access point:

(Cisco Controller) >show mesh client-access
Backhaul with client access status: enabled
Backhaul with client access extended status(3 radio AP): disabled

show mesh config

To display mesh configuration settings, use the **show mesh config** command.

show mesh config

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.
8.0	The display was expanded to include Mesh Convergence Method.

The following example shows how to display global mesh configuration settings:

(Cisco Controller) >show mesh config	
Mesh Range	12000
Mesh Statistics update period	3 minutes
Backhaul with client access status	disabled
Backhaul with extended client access status	disabled
Background Scanning State	enabled
Backhaul Amsdu State	disabled
Mesh Security	
Security Mode	EAP
External-Auth	disabled
Use MAC Filter in External AAA server	disabled
Force External Authentication	disabled
Mesh Alarm Criteria	
Max Hop Count	4
Recommended Max Children for MAP	10
Recommended Max Children for RAP	
Low Link SNR	
High Link SNR	60
Max Association Number	
Association Interval	
Parent Change Numbers	3
Parent Change Interval 60	
Mesh Multicast Mode	In-Out
Mesh Full Sector DFS	
Mesh Ethernet Bridging VLAN Transparent Mode	
Mesh DCA channels for serial backhaul APs	
Mesh Slot Bias	
Mesh Convergence Method	standard

show mesh convergence

To display mesh convergence settings, use the **show mesh convergence** command.

show mesh convergence

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
8.0	This command was introduced.

Usage Guidelines

This command must be entered from an access point's console port.

The following example shows how to display mesh convergence settings:

```
ap_console >show mesh convergence
```

Convergence method: fast Subset channels: 157 165 Num.of Subset channels: 2

Mesh Convergence Global Data
old_conv_method: standard
updated subset: 1 subset chan seek: 1

show mesh env

To display global or specific environment summary information for mesh networks, use the **show mesh env** command.

show mesh env { **summary** | *cisco_ap* }

Syntax Description

summary	Displays global environment summary information.	
cisco_ap	Name of access point for which environment summary information is requested.	

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display global environment summary information:

(Cisco Controller)	>show mesh env s	ummary		
AP Name	Temperature(C)	Heater	Ethernet	Battery
ap1130:5f:be:90	N/A	N/A	DOWN	N/A
AP1242:b2.31.ea	N/A	N/A	DOWN	N/A
AP1131:f2.8d.92	N/A	N/A	DOWN	N/A
AP1131:46f2.98ac	N/A	N/A	DOWN	N/A
ap1500:62:39:70	-36	OFF	UP	N/A

The following example shows how to display an environment summary for an access point:

show mesh neigh

To display summary or detailed information about the mesh neighbors of a mesh access point, use the **show** mesh neigh command.

show mesh neigh { **detail** | **summary**} { cisco_ap | **all**}

Syntax Description

detail Displays the channel and signal-to-noise ratio (SNR) details between designated mesh access point and its neighbor.	
summary	Displays the mesh neighbors for a designated mesh access point.
cisco_ap	Cisco lightweight access point name.
all	Displays all access points.



Note

If an AP itself is configured with the **all**keyword, the **all**keyword access points take precedence over the AP that is named **all**.

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display a neighbor summary of an access point:

(Cisco Controller) >show mesh neigh summary RAP1					
AP Name/Radio Mac	Channel	Rate	Link-Snr	Flags	State
00:1D:71:0F:CA:00	157	54	6	0x0	BEACON
00:1E:14:48:25:00	157	24	1	0x0	BEACON
MAP1-BB00	157	54	41	0x11	CHILD BEACON

The following example shows how to display the detailed neighbor statistics of an access point:

```
(Cisco Controller) >show mesh neigh detail RAP1

AP MAC: 00:1E:BD:1A:1A:00 AP Name: HOR1522_MINE06_MAP_S_Dyke backhaul rate 54

FLAGS: 860 BEACON
worstDv 255, Ant 0, channel 153, biters 0, ppiters 0

Numroutes 0, snr 0, snrUp 8, snrDown 8, linkSnr 8
adjustedEase 0, unadjustedEase 0

txParent 0, rxParent 0
poorSnr 0
lastUpdate 2483353214 (Sun Aug 4 23:51:58 1912)
parentChange 0

Per antenna smoothed snr values: 0 0 0 0

Vector through 00:1E:BD:1A:1A:00
```

The following table lists the output flags displayed for the **show mesh neigh detail** command.

Table 3: Output Flags for the show mesh neigh detail command

Output Flag	Description
AP MAC	MAC address of a mesh neighbor for a designated mesh access point.
AP Name	Name of the mesh access point.
FLAGS	Describes adjacency. The possible values are as follows:
	UPDATED—Recently updated neighbor.
	NEIGH—One of the top neighbors.
	EXCLUDED—Neighbor is currently excluded.
	WASEXCLUDED—Neighbor was recently removed from the exclusion list.
	PERMSNR—Permanent SNR neighbor.
	CHILD—A child neighbor.
	PARENT—A parent neighbor.
	NEEDUPDATE—Not a current neighbor and needs an update.
	BEACON—Heard a beacon from this neighbor.
	• ETHER—Ethernet neighbor.
worstDv	Worst distance vector through the neighbor.
Ant	Antenna on which the route was received.
channel	Channel of the neighbor.
biters	Number of black list timeouts left.
ppiters	Number of potential parent timeouts left.
Numroutes	Number of distance routes.
snr	Signal to Noise Ratio.
snrUp	SNR of the link to the AP.
snrDown	SNR of the link from the AP.
linkSnr	Calculated SNR of the link.
adjustedEase	Ease to the root AP through this AP. It is based on the current SNR and threshold SNR values.
unadjustedEase	Ease to the root AP through this AP after applying correct for number of hops.
txParent	Packets sent to this node while it was a parent.
rxparent	Packets received from this node while it was a parent.

Output Flag	Description
poorSnr	Packets with poor SNR received from a node.
lastUpdate	Timestamp of the last received message for this neighbor
parentChange	When this node last became parent.
per antenna smoother SNR values	SNR value is populated only for antenna 0.

show mesh path

To display the channel and signal-to-noise ratio (SNR) details for a link between a mesh access point and its neighbor, use the **show mesh path** command.

show mesh path cisco_ap

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.51	ntax	Desc	rı	ntion
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cisco_ap

Mesh access point name.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display channel and SNR details for a designated link path:

(Cisco Controller) >show mesh path mesh-45-rap1

AP Name/Radio M	ac Channel	Rate	Link-Snr	Flags	State				
MAP1-BB00	157	54	32	0x0	UPDATED	NEIGH	PARENT	BEACON	
PAP1	157	5.4	37	0~0	BEACON				

show mesh per-stats

To display the percentage of packet errors for packets transmitted by the neighbors of a specified mesh access point, use the **show mesh per-stats** command.

show mesh per-stats summary { cisco_ap | all }

Syntax Description

summary	Displays the packet error rate stats summary.
cisco_ap	Name of mesh access point.
all	Displays all mesh access points.



Note

If an AP itself is configured with the **all**keyword, the **all**keyword access points take precedence over the AP that is named **all**.

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

Usage Guidelines

The packet error rate percentage equals 1, which is the number of successfully transmitted packets divided by the number of total packets transmitted.

The following example shows how to display the percentage of packet errors for packets transmitted by the neighbors to a mesh access point:

```
(Cisco Controller) >show mesh per-stats summary ap_12
Neighbor MAC Address 00:0B:85:5F:FA:F0
Total Packets transmitted:
Total Packets transmitted successfully: 104833
Total Packets retried for transmission: 33028
RTS Attempts:
RTS Success:
                                        Ω
Neighbor MAC Address:
                                        00:0B:85:80:ED:D0
Total Packets transmitted:
Total Packets transmitted successfully: 0
Total Packets retried for transmission: 0
Neighbor MAC Address:
                                        00:17:94:FE:C3:5F
Total Packets transmitted:
Total Packets transmitted successfully: 0
Total Packets retried for transmission: 0
RTS Attempts:
RTS Success:
```

show mesh public-safety

To display 4.8-GHz public safety settings, use the **show mesh public-safety** command.

show mesh public-safety

Syntax Description

This command has no arguments or keywords.

Command Default

Vone

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to view 4.8-GHz public safety settings:

(Cisco Controller) >(Cisco Controller) >show mesh public-safety Global Public Safety status: disabled

show mesh queue-stats

To display the number of packets in a client access queue by type for a mesh access point, use the **show mesh queue-stats** command.

show mesh queue-stats { cisco_ap | all }



Note

If an AP itself is configured with the **all**keyword, the **all**keyword access points take precedence over the AP that is named **all**.

Syntax Description

cisco_ap	Name of access point for which you want packet queue statistics.
all	Displays all access points.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display packet queue statistics for access point ap417:

 (Cisco Controller)
 >show mesh queue-stats ap417

 Queue Type
 Overflows
 Peak length Average length

 ----- -----

 Silver
 0
 1
 0.000

 Gold
 0
 4
 0.004

 Platinum
 0
 4
 0.001

 Bronze
 0
 0
 0.000

 Management
 0
 0
 0.000

show mesh security-stats

To display packet error statistics for a specific access point, use the **show mesh security-stats** command.

show mesh security-stats { cisco_ap | all }

Syntax Description

cisco_ap	Name of access point for which you want packet error statistics.
all	Displays all access points.



Note

If an AP itself is configured with the **all** keyword, the **all** keyword access points take precedence over the AP that is named **all**.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

Usage Guidelines

This command shows packet error statistics and a count of failures, timeouts, and successes with respect to associations and authentications as well as reassociations and reauthentications for the specified access point and its child.

The following example shows how to view packet error statistics for access point ap417:

```
(Cisco Controller) >show mesh security-stats ap417
AP MAC : 00:0B:85:5F:FA:F0
Packet/Error Statistics:
x Packets 14, Rx Packets 19, Rx Error Packets 0
Parent-Side Statistics:
Unknown Association Requests 0
Invalid Association Requests 0
Unknown Re-Authentication Requests 0
Invalid Re-Authentication Requests 0
Unknown Re-Association Requests 0
Invalid Re-Association Requests 0
Child-Side Statistics:
______
Association Failures 0
Association Timeouts 0
Association Successes 0
Authentication Failures 0
Authentication Timeouts 0
Authentication Successes 0
Re-Association Failures 0
Re-Association Timeouts 0
Re-Association Successes 0
Re-Authentication Failures 0
Re-Authentication Timeouts 0
Re-Authentication Successes 0
```

show mesh stats

To display the mesh statistics for an access point, use the **show mesh stats** command.

show mesh stats cisco_ap

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cisco_ap

Access point name.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display statistics of an access point:

```
(Cisco Controller) >show mesh stats RAP_AP1
RAP in state Maint
rxNeighReq 759978, rxNeighRsp 568673
txNeighReq 115433, txNeighRsp 759978
rxNeighUpd 8266447 txNeighUpd 693062
tnextchan 0, nextant 0, downAnt 0, downChan 0, curAnts 0
tnextNeigh 0, malformedNeighPackets 244, poorNeighSnr 27901
blacklistPackets 0, insufficientMemory 0
authenticationFailures 0
Parent Changes 1, Neighbor Timeouts 16625
```

show mgmtuser

To display the local management user accounts on the Cisco wireless LAN controller, use the **show mgmtuser** command.

show mgmtuser

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display a list of management users:

	>	show	mgmtuser
--	---	------	----------

User Name	Permissions	Description	Password Strength
admin	read-write		Weak

Related Commands

config mgmtuser add config mgmtuser delete config mgmtuser description config mgmtuser password

show mobility anchor

To display the wireless LAN anchor export list for the Cisco wireless LAN controller mobility groups or to display a list and status of controllers configured as mobility anchors for a specific WLAN or wired guest LAN, use the **show mobility anchor** command.

show mobility anchor [wlan wlan_id | guest-lan guest_lan_id]

Syntax Description

wlan (Optional) Displays wireless LAN mobility group settings.	
wlan_id	Wireless LAN identifier from 1 to 512 (inclusive).
guest-lan (Optional) Displays guest LAN mobility group settings.	
guest_lan_id	Guest LAN identifier from 1 to 5 (inclusive).

Command Default

None

Command History

Release Modification	
7.6	This command was introduced in a release earlier than
	Release 7.6.

Usage Guidelines

The status field display (see example) shows one of the following values:

- UP—The controller is reachable and able to pass data.
- CNTRL_PATH_DOWN—The mpings failed. The controller cannot be reached through the control path and is considered failed.
- DATA PATH DOWN—The epings failed. The controller cannot be reached and is considered failed.
- CNTRL_DATA_PATH_DOWN—Both the mpings and epings failed. The controller cannot be reached and is considered failed.

The following example shows how to display a mobility wireless LAN anchor list:

(Cisco Controller) >show mobility anchor

Mobility Anchor Export List

WLAN ID IP Address Status

12 192.168.0.15 UP

GLAN ID IP Address Status

1 192.168.0.9 CNTRL DATA PATH DOWN

show mobility ap-list

To display the mobility AP list, use the **show mobility ap-list** command.

show mobility ap-list

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display the mobility AP list:



Note

The AP name is displayed only with New Mobility. With Old Mobility, the AP name is displayed as Unknown.

(Cisco Controller) >sho	w mobility ap-list		
AP Name	AP Radio MAC address	Controller	Learnt From
AP30e4.dbc5.38ab	b8:62:1f:e5:33:10	9.7.104.10	Self

show mobility dtls

To view the status of the DTLS connections, use the **show mobility dtls** command.

show mobility dtls connections

Syntax Description	connections Displays DTLS connection summary.	
Command Default	None	
Command History	Release	Modification
	8.8.111.0	This command was introduced.

The following example shows how to view the status of the DTLS connections:

(Cisco Controller) >show mobility dtls connections

show mobility foreign-map

To display a mobility wireless LAN foreign map list, use the **show mobility foreign-map** command.

show mobility foreign-map wlan wlan_id

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U	/IILAA	DCO	UIIU	uvii

wlan	Displays the mobility WLAN foreign-map list.
wlan_id	Wireless LAN identifier between 1 and 512.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to get a mobility wireless LAN foreign map list:

(Cisco Controller) >show mobility foreign-map wlan 2

Mobility Foreign Map List

WLAN ID	Foreign MAC Address	Interface
2	00:1b:d4:6b:87:20	dvnamic-105

show mobility group member

To display the details of the mobility group members in the same domain, use the **show mobility group member** command.

show mobility group member hash

Syntax Description

nash Displays the hash keys of the mobility group members in the same domain.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to display the hash keys of the mobility group members:

IP Address	Hash Key
9.2.115.68	a819d479dcfeb3e0974421b6e8335582263d9169
9.6.99.10	0974421b6e8335582263d9169a819d479dcfeb3e
9.7.7.7	feb3e0974421b6e8335582263d9169a819d479dc

show mobility statistics

To display the statistics information for the Cisco wireless LAN controller mobility groups, use the **show mobility statistics** command.

show mobility statistics

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to display statistics of the mobility manager:

```
(Cisco Controller) >show mobility statistics
Global Mobility Statistics
 Rx Errors..... 0
 Tx Errors..... 0
 Responses Retransmitted...... 0
 Handoff Requests Received...... 0
 Handoff End Requests Received...... 0
  State Transitions Disallowed.....
 Resource Unavailable.....
Mobility Initiator Statistics
 Handoff Requests Sent...... 0
 Handoff Replies Received..... 0
 Handoff as Local Received...... 2
 Handoff as Foreign Received...... 0
 Anchor Request Sent...... 0
 Anchor Deny Received...... 0
 Anchor Grant Received...........0
 Anchor Transfer Received...... 0
Mobility Responder Statistics
 Handoff Requests Ignored...... 0
 Ping Pong Handoff Requests Dropped...... 0
 Handoff Requests Dropped...... 0
 Handoff Requests Denied...... 0
 Client Handoff as Local...... 0
 Client Handoff as Foreign ...... 0
 Client Handoff Inter Group ..... 0
 Anchor Requests Received...... 0
 Anchor Requests Denied...... 0
```

show mobility summary

To display the summary information for the Cisco WLC mobility groups, use the **show mobility summary** command.

show mobility summary

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

Usage Guidelines

Some WLAN controllers may list no mobility security mode.

The following is a sample output of the **show mobility summary** command.

(Cisco Controller) >show mobility summary

```
Symmetric Mobility Tunneling (current) ...... Disabled
Symmetric Mobility Tunneling (after reboot) .... Disabled
Mobility Security Mode..... Disabled
Default Mobility Domain..... snmp gui
Multicast Mode ..... Disabled
Mobility Domain ID for 802.11r..... 0x66bd
Mobility Keepalive Interval...... 10
Mobility Group Members Configured...... 1
Mobility Control Message DSCP Value..... 0
Controllers configured in the Mobility Group
            IP Address
                                     Multicast IP Status
MAC Address
                        Group Name
00:1b:d4:6b:87:20
             1.100.163.70
                                      0.0.0.0
                         snmp gui
```

show mobility summary encryption

To display the link encryption status for the Mobility Peers, use the **show mobility summary encryption** command.

show mobility summary encryption

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
8.8.111.0	This command was introduced.

The following is a sample output of the **show mobility summary encryption** command.

(Cisco Controller) >show mobility summary encryption

Mobility Number of Mobility members configure... 2

MAC Address IP Address Group Name
Secure Data Encryption Status

62:35:56:78:90:61 1.3.23.4 group_1
Enabled Enabled Control and Data Path Down

34:6e:11:2a:3e:00 10.226.167.33 test

show msglog

To display the message logs written to the Cisco WLC database, use the **show msglog** command.

show msglog

Syntax Description

This command has no arguments or keywords.

Command Default

Vone

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

Usage Guidelines

If there are more that 15 entries, you are prompted to display the messages shown in the example.

The following example shows how to display message logs:

```
(Cisco Controller) >show msglog
Message Log Severity Level..... ERROR
Thu Aug 4 14:30:08 2005 [ERROR] spam lrad.c 1540: AP 00:0b:85:18:b6:50 associated. Last
AP failure was due to Link Failure
Thu Aug 4 14:30:08 2005 [ERROR] spam lrad.c 13840: Updating IP info for AP 00:
0b:85:18:b6:50 -- static 0, 1.100.49.240/255.255.255.0, gtw 1.100.49.1
Thu Aug 4 14:29:32 2005 [ERROR] dhcpd.c 78: dhcp server: binding to 0.0.0.0
Thu Aug 4 14:29:32 2005 [ERROR] rrmgroup.c 733: Airewave Director: 802.11a switch group
reset
Thu Aug 4 14:29:32 2005
                         [ERROR] rrmgroup.c 733: Airewave Director: 802.11bg sw
itch group reset
Thu Aug 4 14:29:22 2005
                         [ERROR] sim.c 2841: Unable to get link state for primary port 0
of interface ap-manager
Thu Aug 4 14:29:22 2005 [ERROR] dtl 12 dot1q.c 767: Unable to get USP
Thu Aug 4 14:29:22 2005 Previous message occurred 2 times
        4 14:29:14 2005 [CRITICAL] osapi sem.c 794: Error! osapiMutexTake called with
Thu Aug
NULL pointer: osapi bsntime.c:927
Thu Aug 4 14:29:14 2005 [CRITICAL] osapi sem.c 794: Error! osapiMutexTake called with
NULL pointer: osapi bsntime.c:919
Thu Aug 4 14:29:14 2005 [CRITICAL] hwutils.c 1861: Security Module not found
Thu Aug 4 14:29:13 2005 [CRITICAL] bootos.c 791: Starting code...
```

show nac statistics

To display detailed Network Access Control (NAC) information about a Cisco wireless LAN controller, use the **show nac statistics** command.

show nac statistics

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to display detailed statistics of network access control settings:

Related Commands

show nac summary config guest-lan nac

config wlan nac

debug nac

show nac summary

To display NAC summary information for a Cisco wireless LAN controller, use the **show nac summary** command.

show nac summary

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to display a summary information of network access control settings:

Related Commands

show nac statistics

config guest-lan nac

config wlan nac

debug nac

show network

To display the current status of 802.3 bridging for all WLANs, use the **show network** command.

show network

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display the network details:

(Cisco Controller) > show network

Related Commands

config network

show network summary

show network multicast mgid detail

show network multicast mgid summary

show network summary

To display the network configuration of the Cisco wireless LAN controller, use the **show network summary** command.

show network summary

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display a summary configuration:

```
(Cisco Controller) >show network summary
RF-Network Name..... RF
Web Mode..... Disable
Secure Web Mode..... Enable
Secure Web Mode Cipher-Option High..... Disable
Secure Web Mode Cipher-Option SSLv2..... Disable
Secure Web Mode RC4 Cipher Preference..... Disable
OCSP..... Disabled
OCSP responder URL....
Secure Shell (ssh)..... Enable
Telnet..... Enable
Ethernet Multicast Mode..... Disable
                                   Mode: Ucast
Ethernet Broadcast Mode..... Disable
Ethernet Multicast Forwarding..... Disable
Ethernet Broadcast Forwarding..... Disable
AP Multicast/Broadcast Mode..... Unicast
IGMP snooping..... Disabled
IGMP Query Interval..... 20 seconds
MLD snooping..... Disabled
MLD timeout..... 60 seconds
MLD query interval..... 20 seconds
AP Join Priority..... Disable
ARP Unicast Mode..... Disabled
Cisco AP Default Master..... Disable
Mgmt Via Wireless Interface..... Disable
Mgmt Via Dynamic Interface..... Disable
Bridge MAC filter Config..... Enable
Bridge Security Mode..... EAP
Over The Air Provisioning of AP's..... Enable
Apple Talk ..... Disable
Mesh Full Sector DFS..... Enable
AP Fallback ..... Disable
Web Auth CMCC Support ..... Disabled
Web Auth Redirect Ports ..... 80
Web Auth Proxy Redirect ..... Disable
Web Auth Captive-Bypass
               ..... Disable
Web Auth Secure Web ..... Enable
Fast SSID Change ..... Disabled
AP Discovery - NAT IP Only ..... Enabled
IP/MAC Addr Binding Check ..... Enabled
CCX-lite status ..... Disable
oeap-600 dual-rlan-ports ..... Disable
```

show network summary

oeap-600 local-network	Enable
mDNS snooping	Disabled
mDNS Query Interval	15 minutes
Web Color Theme	Red
Web Color Theme	Default
CAPWAP Prefer Mode	IPv4

show netuser

To display the configuration of a particular user in the local user database, use the **show netuser** command.

show netuser { **detail** *user_name* | **guest-roles** | **summary**}

Syntax Description

detail	Displays detailed information about the specified network user.	
user_name	Network user.	
guest_roles	Displays configured roles for guest users.	
summary	Displays a summary of all users in the local user database.	

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following is a sample output of the **show netuser summary** command:

```
(Cisco Controller) > show netuser summary
Maximum logins allowed for a given username .......Unlimited
```

The following is a sample output of the **show netuser detail** command:

Related Commands

config netuser add
config netuser delete
config netuser description
config netuser guest-role apply
config netuser wlan-id
config netuser guest-roles

show netuser guest-roles

To display a list of the current quality of service (QoS) roles and their bandwidth parameters, use the **show netuser guest-roles** command.

show netuser guest-roles

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

This example shows how to display a QoS role for the guest network user:

Related Commands

config netuser add

config netuser delete

config netuser description

config netuser guest-role apply

config netuser wlan-id

show netuser guest-roles

show netuser

show network multicast mgid detail

To display all the clients joined to the multicast group in a specific multicast group identification (MGID), use the **show network multicast mgid detail** command.

show network multicast mgid detail mgid_value

Syntax Description

mgid_value

Number between 550 and 4095.

Command Default

None.

This example shows how to display details of the multicast database:

> show network multicast mgid detail

```
      Mgid
      550

      Multicast Group Address
      239.255.255.250

      Vlan
      0

      Rx Packet Count
      807399588

      No of clients
      1

      Client List
      Client MAC

      Expire TIme (mm:ss)

      00:13:02:23:82:ad
      0:20
```

Related Commands

show network summary

show network multicast mgid detail

show network

show network multicast mgid summary

To display all the multicast groups and their corresponding multicast group identifications (MGIDs), use the **show network multicast mgid summary** command.

show network multicast mgid summary

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display a summary of multicast groups and their MGIDs:

> show network multicast mgid summary

Layer2 MGID Mapping:		
InterfaceName	vlan	Id MGID
management	0	0
test 0	9	
wired 20	8	
Layer3 MGID Mapping:		
Number of Layer3 MGI	Ds	1
Group address	Vlan	MGID
239.255.255.250	0	550

Related Commands

show network summary

show network multicast mgid detail

show network

show network summary

To display the network configuration settings, use the **show network summary** command.

show network summary

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.
8.0	This command updated to display the IPv6 multicast details in the network summary.

The following example displays the output of the **show ipv6 summary** command:

```
(Cisco Controller) >show network summary
RF-Network Name.......johnny
Web Mode..... Enable
Secure Web Mode..... Enable
Secure Web Mode Cipher-Option High..... Disable
Secure Web Mode Cipher-Option SSLv2..... Disable
Secure Web Mode RC4 Cipher Preference..... Disable
OCSP responder URL.....
Secure Shell (ssh)..... Enable
Ethernet Multicast Forwarding..... Enable
Ethernet Broadcast Forwarding..... Enable
IPv4 AP Multicast/Broadcast Mode..... Multicast
                                      Address: 239.9.9.9
IPv6 AP Multicast/Broadcast Mode..... Multicast
                                      Address : ffle::6:9
IGMP snooping..... Enabled
IGMP timeout..... 60 seconds
MLD snooping..... Enabled
MLD timeout..... 60 seconds
MLD query interval..... 20 seconds
User Idle Timeout...... 300 seconds
ARP Idle Timeout...... 300 seconds
Cisco AP Default Master..... Disable
AP Join Priority..... Disable
Mgmt Via Wireless Interface..... Enable
Mgmt Via Dynamic Interface..... Enable
Bridge MAC filter Config..... Enable
Bridge Security Mode..... EAP
Mesh Full Sector DFS..... Enable
AP Fallback ..... Enable
Web Auth CMCC Support ..... Disabled
Web Auth Redirect Ports ..... 80
                ..... Disable
Web Auth Proxy Redirect
                 ..... Disable
Web Auth Captive-Bypass
Web Auth Secure Web ..... Enable
Fast SSID Change ..... Disabled
AP Discovery - NAT IP Only ..... Enabled
IP/MAC Addr Binding Check ..... Enabled
Link Local Bridging Status ..... Disabled
```

L3 Prefer Mode	IPv4
Web Color Theme	Default
mDNS Query Interval	15 minutes
mDNS snooping	Disabled
WebPortal NTF_LOGOUT Client	0
WebPortal Online Client	0
oeap-600 Split Tunneling (Printers)	Disable
oeap-600 local-network	Enable
oeap-600 dual-rlan-ports	Disable
CCX-lite status	Disable

show nmsp notify-interval summary

To display the Network Mobility Services Protocol (NMSP) configuration settings, use the **show nmsp notify-interval summary** command.

show nmsp notify-interval summary

Syntax Description

This command has no arguments or keywords.

Command Default

None.

This example shows how to display NMSP configuration settings:

> show nmsp notify-interval summary

```
NMSP Notification Interval Summary
Client

Measurement interval: 2 sec
RFID

Measurement interval: 8 sec
Rogue AP

Measurement interval: 2 sec
Rogue Client

Measurement interval: 2 sec
```

Related Commands

clear locp statistics

clear nmsp statistics

config nmsp notify-interval measurement

show nmsp statistics

show nmsp status

show nmsp status

To view the active NMSP connections status, use the **show nmsp status**command.

show nmsp status

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
8.3	This command was introduced.

This example shows the active nmsp connections status:

(Cisco Controller) >show nmsp status

show nmsp statistics

To display Network Mobility Services Protocol (NMSP) counters, use the show nmsp statistics command.

show nmsp statistics {summary | connection all}

Syntax Description

summary	Displays common NMSP counters.
connection all	Displays all connection-specific counters.

Command Default

None.

This example shows how to display a summary of common NMSP counters:

> show nmsp statistics summary

```
Send RSSI with no entry:
                                      0
Send too big msg:
                                      Ω
Failed SSL write:
                                      0
Partial SSL write:
SSL write attempts to want write:
Transmit Q full:0
Max Measure Notify Msg:
Max Info Notify Msg:
                                      0
Max Tx Q Size:
Max Rx Size:
Max Info Notify Q Size:
Max Client Info Notify Delay:
Max Rogue AP Info Notify Delay:
Max Rogue Client Info Notify Delay:
                                     0
Max Client Measure Notify Delay:
Max Tag Measure Notify Delay:
Max Rogue AP Measure Notify Delay:
Max Rogue Client Measure Notify Delay: 0
Max Client Stats Notify Delay: 0
Max Tag Stats Notify Delay:
                                      0
RFID Measurement Periodic :
                                      0
RFID Measurement Immediate :
                                      Ω
Reconnect Before Conn Timeout:
```

This example shows how to display all the connection-specific NMSP counters:

> show nmsp statistics connection all

```
NMSP Connection Counters
Connection 1 :
 Connection status: UP
                     0
 Freed Connection:
                            NMSP Subscr Resp: 0
Info Resp: 1
Measure Resp: 2
Stats Resp: 2
Measure Notify: (
Nmsp Subscr Req: 0
Info Req: 1
 Measure Req:
                      2
                       2
 Stats Req:
 Info Notify:
                       0
 Loc Capability:
                      0 Location Rsp:
0 Loc Subscr Rsp:
 Location Req:
Loc Subscr Req:
                       0
 Loc Notif:
 Loc Unsubscr Req: 0
                                   Loc Unsubscr Rsp:
```

IDS Get Req:	0	IDS Get Resp:	0
IDS Notif:	0		
IDS Set Req:	0	IDS Set Resp:	0

Related Commands

show nmsp notify-interval summary

clear nmsp statistics

 $config\ nmsp\ notify-interval\ measurement$

show nmsp status

show nmsp subscription

To display the Network Mobility Services Protocol (NMSP) services that are active on the controller, use the **show nmsp subscription** command.

show nmsp subscription $\{$ **summary** \mid **detail** ip- $addr\}$

Syntax Description

summary	Displays all of the NMSP services to which the controller is subscribed.
detail	Displays details for all of the NMSP services to which the controller is subscribed.
ip-addr	Details only for the NMSP services subscribed to by a specific IPv4 or IPv6 address.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.
8.0	This command supports both IPv4 and IPv6 address formats.

This example shows how to display a summary of all the NMSP services to which the controller is subscribed:

> show nmsp subscription summary

```
Mobility Services Subscribed:
Server IP Services
------
10.10.10.31 RSSI, Info, Statistics
```

This example shows how to display details of all the NMSP services:

> show nmsp subscription detail 10.10.10.31

```
Mobility Services Subscribed by 10.10.10.31
Services Sub-services
-------
RSSI Mobile Station, Tags,
Info Mobile Station,
Statistics Mobile Station, Tags,
```

> show nmsp subscription detail 2001:9:6:40::623

Mobility Services Services	Subscribed by 2001:9:6:40::623 Sub-services
RSSI	Mobile Station, Tags,
Info	Mobile Station,
Statistics	Mobile Station, Tags,

show nmsp subscription summary

To view the mobility services subscribed on controller by Mobility Services Engine, use the **show nmsp subscription summary** command.

show nmsp subscription summary

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
8.3	This command was introduced.

This example shows the subscribed mobility services on controller:

(Cisco Controller) >show nmsp subscription summary

show nmsp subscription group

To display the Network Mobility Services Protocol (NMSP) group subscription details, use the **show nmsp subscription group** command.

show nmsp subscription group { **summary** | **detail** { **services** | **ap-list** } { *cmx-ipaddr cmx-subscribed-grp-name* } }

Syntax Description

summary	Displays the group subscription summary of all the CMX connections.
detail	Displays details of a subscribed group by a CMX connection.
services	Displays the services subscribed for a group by the CMX connection.
ap-list	Displays the AP MAC list subscribed for a group by the CMX connection.
cmx-ipaddr	CMX connection IP address
cmx-subscribed-grp-name	CMX subscribed group name

Command History

Release	Modification
8.7	This command was introduced.

This example shows how to display the group subscription summary of all the CMX connections.:

show ntp-keys

To display network time protocol authentication key details, use the **show ntp-keys** command.

show ntp-keys

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

This example shows how to display NTP authentication key details:

```
(Cisco Controller) > show ntp-keys

Ntp Authentication Key Details.....

Key Index

1
3
```

Related Commands

config time ntp

show ntp-keys

To display network time protocol authentication key details, use the **show ntp-keys** command.

show ntp-keys

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

This example shows how to display NTP authentication key details:

```
(Cisco Controller) > show ntp-keys

Ntp Authentication Key Details.....

Key Index

------

1

3
```

Related Commands

config time ntp

show opendns summary

To display OpenDNS configuration details, use the **show opendns summary** command.

show opendns summary

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This command has no keywords or arguments.

Command Default

None

Command History

Release Modification

8.4 This command was introduced.

Example

The following example shows how to view an OpenDNS configuration:

```
(Cisco Controller) > show opendns summary
```

 OpenDnsGlobalStatus
 Enabled

 OpenDns-ApiToken
 12

Profiles Mapped to WLANIDs

Profile Name WLAN IDs (Mapped)

guest1

Profiles Mapped to APGroup WLAN-IDs

Profile Name Site Name / WLAN IDs (Mapped)

guest1 NONE

Profiles Mapped to Local Policies

--More-- or (q)uit

Profile Name Local Policies (Mapped)

guest1 NONE

show pmk-cache

To display information about the pairwise master key (PMK) cache, use the **show pmk-cache** command.

show pmk-cache $\{all \mid MAC\}$

Syntax Description

all	Displays information about all entries in the PMK cache.
MAC	Information about a single entry in the PMK cache.

Command Default

None

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display information about a single entry in the PMK cache:

(Cisco Controller) >show pmk-cache xx:xx:xx:xx:xx

The following example shows how to display information about all entries in the PMK cache:

(Cisco Controller) >show pmk-cache all PMK Cache Entry

Station Lifetime VLAN Override IP Override

show pmipv6 domain

To display the summary information of a PMIPv6 domain, use the **show pmipv6 domain** command.

show pmipv6 domain *domain_name* **profile** *profile_name*

Syntax Description

domain_name	Name of the PMIPv6 domain. The domain name can be up to 127 case-sensitive alphanumeric characters.
profile	Specifies the PMIPv6 profile.
profile_name	Name of the profile associated with the PMIPv6 domain. The profile name can be up to 127 case-sensitive alphanumeric characters.

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to display the summary information of a PMIPv6 domain:

(Cisco Controller) >show pmipv6 domain floor1 profile profile1

NAI: @example.com APN: Example LMA: Examplelma

NAI: *

APN: ciscoapn LMA: ciscolma

show pmipv6 mag bindings

To display the binding information of a Mobile Access Gateway (MAG), use the **show pmipv6 mag binding** command.

show pmipv6 mag bindings [lma lma_name | nai nai_string]

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•	IIIUA	DCGGIIP	

lma	(Optional) Displays the binding details of the MAG to an Local Mobility Anchor (LMA).
lma_name	Name of the LMA. The LMA name is case-sensitive and can be up to 127 alphanumeric characters.
nai	(Optional) Displays the binding details of the MAG to a client.
nai_string	Network Access Identifier (NAI) of the client. The NAI is case-sensitive and can be up to 127 alphanumeric characters. You can use all special characters except a colon.

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display the MAG bindings:

```
(Cisco Controller) >show pmipv6 mag binding
[Binding][MN]: Domain: D1, Nai: MN1@cisco.com
    [Binding][MN]: State: ACTIVE
    [Binding][MN]: Interface: Management
    [Binding][MN]: Hoa: 0xE0E0E02, att: 3, llid: aabb.cc00.c800
    [Binding][MN][LMA]: Id: LMA1
    [Binding][MN][LMA]: lifetime: 3600
    [Binding][MN][GREKEY]: Upstream: 102, Downstream: 1
```

show pmipv6 mag globals

To display the global PMIPv6 parameters of the Mobile Access Gateway (MAG), use the **show pmipv6 mag globals** command.

show pmipv6 mag globals

Syntax Description

This command has no arguments or keywords.

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.

The following example shows how to display the global PMIPv6 parameters of a MAG:

```
(Cisco Controller) >show pmipv6 mag globals
Domain : D1
MAG Identifier : M1
       MAG Interface
                                    : Management
       Max Bindings
                                    : 10000
                                    : 3600 (sec)
       Registration Lifetime
       BRI Init-delay time
                                    : 1000 (msec)
                                    : 2000 (msec)
       BRI Max-delay time
       BRI Max retries
                                    : 1
                                    : 300 (sec)
       Refresh time
       Refresh RetxInit time
                                    : 1000 (msec)
       Refresh RetxMax time
                                    : 32000 (msec)
       Timestamp option
                                    : Enabled
       Validity Window
       Peer#1:
               LMA Name: AN-LMA-5K
                                     LMA IP: 209.165.201.10
       Peer#2:
              LMA Name: AN-LMA
                                    LMA IP: 209.165.201.4
       Peer#3:
              LMA Name: AN-LMA
                                     LMA IP: 209.165.201.4
```

show pmipv6 mag stats

To display the statistics of the Mobile Access Gateway (MAG), use the show pmipv6 mag stats command.

show pmipv6 mag stats [**domain** domain_name **peer** lma_name]

Syntax Description

domain	(Optional) Displays the MAG statistics for a Local Mobility Anchor (LMA) in the domain.
domain_name	Name of the PMIPv6 domain. The domain name is case-sensitive and can be up to 127 alphanumeric characters.
peer	(Optional) Displays the MAG statistics for an LMA.
lma_name	Name of the LMA. The LMA name is case sensitive and can be up to 127 alphanumeric characters.

Command History

Release	Modification	
7.6	This command was introduced in a release earlier than Release 7.6.	

Usage Guidelines

This table lists the descriptions of the LMA statistics.

Table 4: Descriptions of the LMA Statistics:

LMA Statistics	Description
PBU Sent	Total number of Proxy Binding Updates (PBUs) sent to the LMA by the MAG.
	PBU is a request message sent by the MAG to a mobile node's LMA for establishing a binding between the mobile node's interface and its current care-of address (Proxy-CoA).
PBA Received	Total number of Proxy Binding Acknowledgements (PBAs) received by the MAG from the LMA.
	PBA is a reply message sent by an LMA in response to a PBU message that it receives from a MAG.
PBRI Sent	Total number of Proxy Binding Revocation Indications (PBRIs) sent by the MAG to the LMA.
PBRI Received	Total number of PBRIs received from the LMA by the MAG.
PBRA Sent	Total number of Proxy Binding Revocation Acknowledgements (PBRAs) sent by the MAG to the LMA.
PBRA Received	Total number of PBRAs that the MAG receives from the LMA.
Number of Handoff	Number of handoffs between the MAG and the LMA.

The following example shows how to display the LMA statistics:

```
(Cisco Controller) >show pmipv6 mag stats
[M1]: Total Bindings : 1
[M1]: PBU Sent : 7
[M1]: PBA Rcvd : 4
[M1]: PBRI Sent : 0
[M1]: PBRI Rcvd : 0
[M1]: PBRA Sent : 0
[M1]: PBRA Rcvd : 0
[M1]: PBRA Rcvd : 0
[M1]: No Of handoff : 0
```

show pmipv6 profile summary

To display the summary of the PMIPv6 profiles, use the **show pmipv6 profile summary** command.

show pmipv6 profile summary

Syntax Description

This command has no arguments or keywords.

Command Default

Vone

Command History

Release	Modification
7.6	This command was introduced in a release earlier than
	Release 7.6.

The following example shows how to display the summary of the PMIPv6 profiles:

```
(Cisco Controller) >show pmipv6 profile summary
Profile Name WLAN IDS (Mapped)
------
Group1 6
```

show policy

To display the summary of the configured policies, and the details and statistics of a policy, use the **show policy** command.

show policy {summary | policy-name [statistics] }

Syntax Description

summary	Displays the summary of configured policies.
policy-name	Name of the policy.
statistics	(Optional) Displays the statistics of a policy.

Command Default

None

Command History

Release Modification

7.5 This command was introduced.

The following is a sample output of the **show policy summary** command:

The following example shows how to display the details of a policy:

(Cisco Controller) > show policy student-FullAccess

```
Policy Index..... 1
Match Role.....<none>
Match Eap Type..... EAP-TLS
ACL.........
QOS......<none>
Average Data Rate..... 0
Average Real Time Rate..... 0
Burst Data Rate.....
Burst Real Time Rate...... 0
Active Hours
_____
Start Time End Time
         Day
```

Match Device Types -----Android

The following example shows how to display the statistics of a policy:

(Cisco Controller) > show policy student-FullAccess statistics

Policy Index	
Matching Attributes None No Policy Match	
Device Type Match	U
EAP Type Match	0
Role Type Match	0
Client Disconnected	4
Acl Applied	0
Vlan changed	614
Session Timeout Applied	4
QoS Applied	0
Avg Data Rate Applied	0
Avg Real Time Rate Applied	0
Burst Data Rate Applied	0
Burst Real Time Rate Applied	0
Sleeping-Client-Timeout Applied	0

show port

To display the Cisco wireless LAN controller port settings on an individual or global basis, use the **show port** command.

show port {port-number | **summary** | **detailed-info** | **sfp-info** | **vlan**}

Syntax Description

port-number	Port number of the physical interface.	
summary	Displays a summary of all ports.	
detailed-info	Displays detailed port information.	
sfp-info	Displays SFP information.	
	Note This feature is applicable only to Cisco 5520 and 8540 WLCs.	
vlan	Displays VLAN port table summary.	
· · · · · · · · · · · · · · · · · · ·		

Command History

Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.
8.8	sfp-info parameter was added.

The following example shows how to display information about an individual wireless LAN controller port:



Note

Some WLAN controllers may not have multicast or Power over Ethernet (PoE) listed because they do not support those features.

The following example shows how to display a summary of all ports:

(Cisco Controller) > **show port summary**STP Admin Physical Physical Link Link Mcast
Pr Type Stat Mode Mode Status Status Trap Appliance POE
SFPType

1 Normal	Forw Enable	Auto	1000 Full	Up	Enable	Enable	N/A
NotPreser	nt						
2 Normal	Disa Enable	Auto	1000 Full	Down	Enable	Enable	N/A
NotPreser	nt						
3 Normal	Disa Enable	Auto	1000 Full	Down	Enable	Enable	N/A
NotPreser	nt						
4 Normal	Disa Enable	Auto	1000 Full	Down	Enable	Enable	N/A
NotPreser	nt.						



Note

Some WLAN controllers may have only one port listed because they have only one physical port.

The following example shows how to display SFP information:

show profiling policy summary

To display local device classification of the Cisco Wireless LAN Controller (WLC), use the **show profiling policy summary** command.

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command History

Release	Modification
7.5	This command was introduced.

The following is a sample output of the **show profiling policy summary** command:

(Cisco Controller) > show profiling policy summary

Number of Builtin Classification Profiles: 88

ID	Name		Min CM	
====		=====	=====	=====
0	Android	None	30	Yes
1	Apple-Device	None	10	Yes
2	Apple-MacBook	1	20	Yes
3	Apple-iPad	1	20	Yes
4	Apple-iPhone	1	20	Yes
5	Apple-iPod	1	20	Yes
6	Aruba-Device	None	10	Yes
7	Avaya-Device	None	10	Yes
8	Avaya-IP-Phone	7	20	Yes
9	BlackBerry	None	20	Yes
10	Brother-Device	None	10	Yes
11	Canon-Device	None	10	Yes
12	Cisco-Device	None	10	Yes
13	Cisco-IP-Phone	12	20	Yes
14	Cisco-IP-Phone-7945G	13	70	Yes

15 Cisco-IP-Phone-7975	13	70	Yes
16 Cisco-IP-Phone-9971	13	70	Yes
17 Cisco-DMP	12	20	Yes
18 Cisco-DMP-4400	17	70	Yes
19 Cisco-DMP-4310	17	70	Yes
20 Cisco-DMP-4305	17	70	Yes
21 DLink-Device	None	10	Yes
22 Enterasys-Device	None	10	Yes
23 HP-Device	None	10	Yes
24 HP-JetDirect-Printer	23	30	Yes
25 Lexmark-Device	None	10	Yes
26 Lexmark-Printer-E260dn	25	30	Yes
27 Microsoft-Device	None	10	Yes
28 Netgear-Device	None	10	Yes
29 NintendoWII	None	10	Yes
30 Nortel-Device	None	10	Yes
31 Nortel-IP-Phone-2000-Series	30	20	Yes
32 SonyPS3	None	10	Yes
33 XBOX360	27	20	Yes
34 Xerox-Device	None	10	Yes
35 Xerox-Printer-Phaser3250	34	30	Yes
36 Aruba-AP	6	20	Yes
37 Cisco-Access-Point	12	10	Yes
38 Cisco-IP-Conference-Station-7935	13	70	Yes
39 Cisco-IP-Conference-Station-7936	13	70	Yes

40 Cisco-IP-Conference-Station-7937

13

70 Yes

show qos

To display quality of service (QoS) information, use the **show qos** command.

show qos {bronze | gold | platinum | silver}

Syntax Description

bronze	Displays QoS information for the bronze profile of the WLAN.
gold	Displays QoS information for the gold profile of the WLAN.
platinum	Displays QoS information for the platinum profile of the WLAN.
silver	Displays QoS information for the silver profile of the WLAN.

Command Default

None.

This example shows how to display QoS information for the gold profile:

> show qos gold

> show dos dora	
Description	= =
<u> </u>	
Unicast Default Priority	
Multicast Default Priority	
Per-SSID Rate Limits	UpstreamDownstream
Average Data Rate	0 0
Average Realtime Data Rate	0 0
Burst Data Rate	0 0
Burst Realtime Data Rate	0 0
Per-Client Rate Limits	UpstreamDownstream
Average Data Rate	0 0
Average Realtime Data Rate	
Burst Data Rate	
Burst Realtime Data Rate	
protocol	
prococor	110116
802.11a Customized EDCA Settings:	
ecwmin 3	
ecwmax4	
aifs 7	
txop	
спор 31	
802.11a Customized packet parameter Settings:	
Packet retry time	
Not retrying threshold	
Disassociating threshold	
Time out value	

Related Commands

config qos protocol-type

show qos qosmap

To see the current QoS map configuration, use the **show qos** command.

show qos qosmap

Syntax Description	qosmap	Displays the current QoS map
Command Default	None	
Command History	Release	Modification
	8.1	This command was introduced.

The following example shows the current QoS map configuration:

show qos qosmap

show queue-info

To display all the message queue information pertaining to the system, use the **show queue-info** command.

show queue-info

Syntax Description

This command has no arguments or keywords.

Command Default

Vone

Command History

Release	Modification
7.5	This command was introduced.

The following is a sample output of the **show queue-info** command.

(Cisco Controller) > show queue-info

Total message queue count = 123

Queue Name	Allocated	InUse	MaxUsed
PRINTF-Q	256	0	0
dtlqueue	4096	0	6
GRE Queue	100	0	1
dtlarpqueue	4096	0	6
NIM-Q	116	0	1
SIM-Q	116	0	6
DHCP Client Queue	8	0	0
dhcpv6ProxyMsgQueue	250	0	0
FDQ-Q	30300	0	3
dot1d_Queue	512	0	29
Garp-Q	256	0	1
dot3ad_queue	1024	0	0
DEBUG-Q	8192	0	8
LOGGER-Q	8192	0	5
TS-Q	256	0	0

The following table describes the significant fields shown in the display.

Table 5: show queue-info Field Descriptions

Field	Description
Queue Name	Name of the task message queue.
Allocated	Memory size, in bytes, of the message queue.
InUse	Queue that is currently used. A value of 0 indicates that there are no messages that have to be processed by the task.

Field	Description
MaxUsed	Maximum number of messages processed by the task after the controller is up.