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## show l2tp

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 11:11:11:11:11:11:11** Destination MAC 11:11:11:11:11:11 currently maps to port 1

I

# 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) > <b>show lag ip-port-hash 192.168.102.138</b> 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:			
	<pre>(Cisco Controller) &gt; show lo Server Index Address Port Enabled User DN User Attribute User Type Retransmit Timeout Bind Method</pre>	dap 1         1         2.3.1.4         389         Yes         name1         attr1         username1         3 seconds         Anonymous		
Related Commands	config ldap			
	config ldap add			
	config ldap simple-bind			
	show Idap 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	1
Server statistics:	
Initialized OK	0
Initialization failed	0
Initialization retries	0
Closed OK	0
Request statistics:	
Received	0
Sent	0
ОК	0
Success	0
Authentication failed	0
Server not found	0
No received attributes	0
No passed username	0
Not connected to server	0
Internal error	0
Retries	0
Server Index	2

**Related Commands** 

#### config ldap

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

### show Idap summary

None

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

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) > <b>show</b>	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 This command has no arguments or keywords. Syntax Description None. **Command Default** 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

## 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	This command has no arguments or keywords.				
Command Default	None.					
	This example shows how to display the license capacity:					
	> <b>show license cap</b> Licensed Feature	<b>acity</b> 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-l	evel				
	show license summa	ry				
	license modify priority					
	show license evaluation					

### 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	<i>license-name</i> Name of a specific license.		
Command Default	None.		
	This example shows how to display the license details:		
	<pre>&gt; 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</pre>		
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

### 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 lice

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

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

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 evaluation

### 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 NiL 5_MINS <UDI><PID>AIR-CT5508-K9</PID><SN>RFD000P2D27<
/SN></UDI> Pe0L7tv8KDUqo:zlPe423S5wasgM8G,tTs0i,7zLyA3VfxhnIe5aJa
m631R518JM3DPkr402D143iL1Kn7jomo3RF11LjMRqLkKhiLJ2tOyuftQSq2bCA06
nR3wIb38xKi3t$<WLC>AQEBIQAB//+#nCzRUbOhw28vz0czAY0iAm7ocDLUMb9ER0
+BD3w2PhNEYwsBN/T3xXBqJqfC+oKRqwInxo3s+nsLU7rOtdOxoIxYZAo3LYmUJ+M
FzsqlhKoJV1PyEvQ8H21MNUjVbhoN0gyIWsyiJaM8AQIkVBQFzhr10GYolVzdzfJf
EPQIx6tZ++/Vtc/q3SF/5Ko8XCY=</WLC>
Comment:
Hash: iOGjuLlXgLhcTB113ohIzxVioHA=
```

**Related Commands** 

show license all show license detail show license expiring show license feature show license image-level show license in-use show license summary

license install

show license evaluation

### 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.

rtone.

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
Feature: wplus-ap-count , Handle Count: 1
   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 Commandslicense install<br/>show license all<br/>show license detail<br/>show license expiring<br/>show license feature<br/>show license image-level<br/>show license in-use<br/>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

 wnbu
 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 lice

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 evaluation

I

# 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 evaluation

### 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 Clear license annotate Comment license Save license save Revoke license revoke Device status Device Credential type: DEVICE Device Credential Verification: PASS Rehost Type: DC\_OR\_IC

### show license statistics

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

	show license st	atistics			
Syntax Description	This command has no arguments or keywords.				
Command Default	None.				
	This example shows how to display the license statistics:				
	> show license statistics				
	Insta Insta Insta Comme Clear c Save Save Reque Reque Reque Relea Globa	<pre>ll success count: ll failure count: ll duplicate count: nt add count: nt delete count: count: count: cred count: Client status st success count st failure count se count l Notify count</pre>	0 0 0 0 0 0 0 0 0 0 0 0		
	- liaanaa inatall				
Related Commands					
	show license de	l Atail			
	show license ex	miring			
	show license fe	ature			
	show license in	nage-level			
	show license in	-use			
	show license su	ımmary			
	license modify	priority			
	show license ev	aluation			

### 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

### 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

(01300)	Souce and a succession of the	be dui	
Device#	PID	SN	UDI
*0	AIR-CT5508-K9	RFD000P2D27	AIR-CT5508-K9:RFD000P2D27

### show load-balancing

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

show load-balancing This command has no arguments or keywords. **Syntax Description** None. **Command Default** 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..... 0 times

**Related Commands** config load-balancing

### show local-auth config

None

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

**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) > <b>show local-auth config</b>
User credentials database search order:
Primary 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
Initial client message
Local certificate required No
Client certificate required No
Vendor certificate required No
Anonymous provision allowed Yes
Authenticator ID
Authority Information Test
EAP Profile tls-prof
Enabled methods for this profile tls
Active on WLANs 1 3EAP Method configuration:
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 sta	tistics		
Local EAP authent	ication DB stat	istics:		
Requests received	•••••	• • • • • • • •	••••	14
Responses returne	d	• • • • • • • •	••••	14
Requests dropped	(no EAP AVP)		•••••	0
Requests dropped	(other reasons)		• • • • • • • • •	0
Authentication ti	meouts	• • • • • • • •	• • • • • • • • •	0
Authentication st	atistics:			
Method	Success	Fail		
Unknown	0	0		
LEAP	0	0		
EAP-FAST	2	0	0	
EAP-TLS	0	0		
PEAP	0	0		
Local EAP credent	ial request sta	tistics:		
Requests sent to	LDAP DB		• • • • • • • • •	0
Requests sent to	File DB		• • • • • • • • •	2
Requests failed (	unable to send)		• • • • • • • • •	0
Authentication re	sults received:			_
Success			•••••	2
Fail			• • • • • • • • •	0
Certificate opera	tions:			
Local device cert	ificate load fa	ilures .	• • • • • • • • • •	0
Total peer certif	icates checked			0
Failures:				
CA issuer check				0
CN name not equ	al 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	None			
Command History	Release	Modification		
	7.6	This command was introduced in a release earlier than Release 7.6.		
	The following example shows (Cisco Controller) > <b>show</b>	how to display the authentication certificate information stored locally: local-auth certificates		
Related Commands	clear stats local-auth			
	config local-auth active-time	out		
	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) > <b>show logging</b>			
	(Cisco Controller) > <b>conf</b> : System logs will be sent ;	ig logging syslog host 10.92.125.52 to 10.92.125.52 from now on		
	(Cisco Controller) > <b>config logging syslog host 2001:9:6:40::623</b> System logs will be sent to 2001:9:6:40::623 from now on			
	<pre>(Cisco Controller) &gt; show Logging to buffer : Logging of system messau Logging filter level Number of system messau Logging of debug messau Logging of debug messau Number of debug messau Cache of logging Cache of logging time(mu Number of over cache time Logging to console :</pre>	logging         ges to buffer :		
	<ul> <li>Logging of system messae</li> <li>Logging filter level</li> <li>Number of system messae</li> <li>Number of system messae</li> <li>Logging of debug message</li> <li>Number of debug message</li> <li>Number of debug message</li> <li>Syslog facility</li> <li>Logging of system messae</li> <li>Logging filter level</li> </ul>	ges to console : 		
	<ul> <li>Logging filter level</li> <li>Number of system message</li> <li>Number of debug message</li> <li>Number of debug message</li> <li>Number of debug message</li> <li>Logging of system message</li> <li>Logging filter level</li> <li>Number of system message</li> <li>Number of system message</li> </ul>	disabled         ges       logged		

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- 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 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

ID	username	Connection From	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 keywo	ords.		
Command Default	None.				
	This example shows how to display the current session details:				
	> <b>show loginsess</b> ID username	ion Connection From	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.

Syntax Description	summary	Displays a summa	ary of all MAC filter entries.		
	detail MAC	MAC Displays details of a MAC filter entry.			
	mesh	Display a summa	ry of all MESH AP MAC filter entries.		
Command Default	None				
Command History	Release	Modification			
	7.6	This command was intr	roduced in a release earlier than Release 7.6.		
	MAC filter table lists	s the clients that are alwa	ys allowed to associate with a wireless LAN.		
	MAC filter table lists The following examp (Cisco Controller) MAC Address WLAN Identifier Interface Name Description	s the clients that are alwand ble shows how to display	ys allowed to associate with a wireless LAN. The detailed display of a MAC filter entry: ail xx:xx:xx:xx:xx: 		
	MAC filter table lists The following examp (Cisco Controller) MAC Address WLAN Identifier Interface Name Description The following examp (Cisco Controller) MAC Filter RADIUS	the clients that are alwas ble shows how to display >show macfilter det ble shows how to display > show macfilter su Compatibility mode	ys allowed to associate with a wireless LAN. The detailed display of a MAC filter entry: Tail xx:xx:xx:xx:xx:xx 		
	MAC filter table lists The following examp (Cisco Controller) MAC Address WLAN Identifier Interface Name Description The following examp (Cisco Controller) MAC Filter RADIUS MAC Filter Delimit Local Mac Filter S	the clients that are alwa ole shows how to display >show macfilter det ole shows how to display > show macfilter su Compatibility mode cer	ys allowed to associate with a wireless LAN. The detailed display of a MAC filter entry: Tail xx:xx:xx:xx:xx:xx 		

## show mdns ap summary

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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

 Release
 Modification

 7.5
 This command was introduced.

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

(CISCO CONTROLLER)	> snow mons ap summa	ary	
Number of mDNS APs		2	
AP Name	Ethernet MAC	Number of Vlans	VlanIdentifiers
ap-3500 ap-3600	cc:ef:48:72:0d:d9 00:22:bd:df:04:68	0 2	Not applicable 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

This command has no arguments or keywords. **Syntax Description** 

None **Command Default** 

**Command History** 

**Release Modification** 7.5

This command was introduced.

Each service advertisement contains a record that maps the domain name of the service provider to the IP **Usage Guidelines** 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:

(Cisco Controller) > show mdns domain-name-ip summary

Number of Domain	n Name-IP Entries		1					
DomainName	MAC Address	IP Address		Vlan Id	Туре	TTL	Time	left
			(in s	seconds)	(in se	conds)		
tixp77.local.	00:50:b6:4f:69:70	209.165. 202.	128	999	mDNSAP	4725	906	

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:						
	> <b>show mdns profile summ</b> Number of Profiles	<b>ary</b> 2					
	ProfileName	No. Of Services					
	default-mdns-profile profile1	5 2					
	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	<pre> default-mdns-profile 1 5 AirPrint AppleTV HP_Photosmart_Printer_1 HP_Photosmart_Printer_2 Printer</pre>					
	No. Interfaces Attached. No. Interface Groups Att No. Wlans Attached Wlan Ids	0 ached					

 Related Commands
 config mdns query interval

 config mdns service
 config mdns snooping

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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 Displays the summary of all mDNS services. summary 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. None **Command Default 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 LSS Origin No SP Service-string \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ Yes Wireless 1 \_\_ipp.\_tcp.local. Yes Wireless 1 \_\_airplay.\_tcp.local. AirPrint VTelgaA 1 0 \_\_universal.\_sub.\_ipp.\_tcp.local. HP\_Photosmart\_Printer\_1 Yes Wireless Wired \_cups.\_sub.\_ipp.\_tcp.local. HP Photosmart Printer 2 No 0 Printer No Wired printer. tcp.local. The following is a sample output of the **show mnds service detailed** command: Device > show mdns service detailed AirPrint

#### 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 Service-sti	VLAN ring	TTL	TTL left	Client MAC	AP-MAC
	-		(sec)	(sec)	
Wireless	106	120	105	00:21:6a:76:88:04	04:da:d2:b3:11:00
100.106.11	.9.in-add	lr.arpa.			
Wireless	106	120	112	00:21:6a:78:ff:82	04:da:d2:b3:11:00
102.106.11	.9.in-add	lr.arpa.			
Wireless	106	120	75	00:21:6a:78:ff:82	04:da:d2:b3:11:00
108.104.11	.9.in-add	lr.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 }
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Syntax Description	media-stream_name	Na	me of the media	a-stream	client	of which	the details is to	o be displayed.
	summary	Dis	splays the detai	ls for a s	et of n	nedia-stre	am clients.	
Command Default	None.							
	This example shows	how to display a	summary med	ia-strear	n clien	ts:		
	> <b>show media-strea</b> Number of Clients.	m client summ	ary 	· · · · · · · · · · · ·	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 summar	у					

## 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

Syntax Description	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 a	bc					
	Media Stream Name	abc					
	Start IP Address						
	End IP Address						
	RRC Parameters						
	Avg Packet Size(Bytes)						
	Expected Bandwidth(Kbps)						
	Policy	Admit					
	RRC re-evaluation	periodic					
	QoS						
	Status	Multicast-direct					
	Usage Priority						
	Violation	drop					
		-					
	_						

**Related Commands** show media-stream group summary

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### 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 This command has no arguments or keywords. **Syntax Description** None **Command Default Command History** Modification Release 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 Controller) > show media-stream group summary Stream Name Start IP End IP Operation Status \_\_\_\_\_ \_\_\_\_ abc 227.8.8.8 227.9.9.9 Multicast-direct show 802.11 media-stream client **Related Commands** 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
--------	-------------	-------	------	----	---------

AP Name	AP Model	BVI MAC	CERT MAC	Нор	Bridge	Group Name	e
							-
SB_RAP1	AIR-LAP1522AG-A-K9	00:1d:71:0e:d0:00	00:1d:71:0e:d0:00	0	sbox		
SB_MAP1	AIR-LAP1522AG-A-K9	00:1d:71:0e:85:00	00:1d:71:0e:85:00	1	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				

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

(Cisco Controller) >show mesh ap tree

AP N	Name	[Hop (	Counter,	Link	SNR,	Bridge	Group	Name]	
[Sector	1]								
SB_RAP1    -SB_M  -SE  -	[0,0,s MAP1[2 B_MAP2 -SB_M2	sbox] 1,32,3 2[2,2 AP3[3]	sbox] 7,sbox] ,30,sbox	.]					
Number o Number o Number o	of Mes of RAI of MAI	sh AP: Ps Ps	s	  	  	• • • • • • • •	 	• 4 • 1 • 3	

### 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 e points:	example shows how to display anti-stranding statistics on all outdoor mesh access
	(Cisco Contro	ller) >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

Syntax Description	cisco_ap	Name of the 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 e	example shows how to display the current backhaul:			
	(Cisco Controller) > <b>show mesh backhaul</b>				
	If the current backhaul is 5 GHz, the output is as follows:				
	Basic Basic Attributes for Slot 0       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 Subband       RADIO_TYPE_80211a         Radio Role.       DOWNLINK ACCESS         Administrative State       DOWNLINK ACCESS         Administrative State       DOWNLINK ACCESS         Administrative State       DOWNLINK ACCESS         Administrative 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				

### 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 | {bwused {voice | video} | access | callpath | 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 Controller)	>show 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:

(Cis	sco Controller)	>show mesh	cac access	1524_Map1
	AP Name	Slot#	Radio	Calls
	1524 Rap	0	11b/g	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

 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) > <b>show mesh config</b>	
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	20
Low Link SNR	12
High Link SNR	60
Max Association Number	10
Association Interval	60 minutes
Parent Change Numbers	3
Parent Change Interval 60	minutes
Mash Full Caster DEC	IN-OUL
Mesh Full Sector DrS	diaphled
Mesh DCA charpele for corial backbaul ADa	arshlad
Mech Slot Bise	enabled
Mesh Convergence Method	etandard
	alanualu

### show mesh convergence

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

show mesh convergence This command has no arguments or keywords. **Syntax Description** None **Command Default Command History** Release **Modification** 8.0 This command was introduced. This command must be entered from an access point's console port. **Usage Guidelines** 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	{ <b>summary</b>   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:

(Ciaco Controllor) Scherr mach ann CR RADI	
(CISCO CONCIOLIEI) SNOW MESH ENV SB_RAPI	
AP Name	SB_RAP1
AP Model	AIR-LAP1522AG-A-K9
AP Role	RootAP
Temperature	21 C, 69 F
Heater	OFF
Backhaul	GigabitEthernet0
GigabitEthernet0 Status	UP
Duplex	FULL
Speed	100
Rx Unicast Packets	114754
Rx Non-Unicast Packets	1464
Tx Unicast Packets	9630
Tx Non-Unicast Packets	3331
GigabitEthernet1 Status	DOWN
POE Out	OFF
Battery	N/A

## 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 the designated mesh access point and its neighbor.						
	summary	ummary 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 it that is nam	elf is configured with the <b>all</b> keyword, the <b>all</b> keyword access points take precedence over the Ale all.	P					
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 Contro AP Name/Radio	ler) > <b>show mesh neigh summary RAP1</b> Mac Channel Rate Link-Snr Flags State						
	00:1D:71:0F:C 00:1E:14:48:2 MAP1-BB00	::00 157 54 6 0x0 BEACON :00 157 24 1 0x0 BEACON 157 54 41 0x11 CHILD BEACON						
	The following e	cample shows how to display the detailed neighbor statistics of an access point:						
	(Cisco Contro AP MAC : 00:1 backhaul rate FLAGS : 860 B worstDv 255, Numroutes 0, adjustedEase txParent 0, r poorSnr 0 lastUpdate 24 parentChange Per antenna s	<pre>ler) &gt;show mesh neigh detail RAP1 :BD:1A:1A:00 AP Name: HOR1522_MINE06_MAP_S_Dyke 54 ACON nt 0, channel 153, biters 0, ppiters 0 nr 0, snrUp 8, snrDown 8, linkSnr 8 , unadjustedEase 0 Parent 0 3353214 (Sun Aug 4 23:51:58 1912) Hoothed snr values: 0 0 0 0</pre>						

The following table lists the output flags displayed 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.

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

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.

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## 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

Syntax Description	<i>cisco_ap</i> 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 Controll	er) > <b>show</b> i	mesh pa	ath mesh-4	l5-rap1				
AP Name/Radio M	ac Channel	Rate	Link-Snr	Flags	State			
MAP1-BB00	157	54	32	0x0	UPDATED	NEIGH	PARENT	BEACON
RAP1	157	54	37	0x0	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 pack	ket error rate stats summary.
	cisco_ap	Name of mesh ac	ccess point.
	all	Displays all mesh	n access points.
-	<b>Note</b> If an AP is that is not	tself is configured with the <b>all</b> ned <b>all</b> .	keyword, the <b>all</b> keyword access points take precedence over the AP
Command History	Release	Modification	
	7.6	This command was int	roduced in a release earlier than Release 7.6.
Usage Guidelines	The packet err by the number The following by the neighbo	or rate percentage equals 1, wh of total packets transmitted. example shows how to display ors to a mesh access point:	the percentage of packet errors for packets transmitted
	(Cisco Contr	oller) > <b>show mesh per-sta</b> f	

## show mesh public-safety

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

	blic-safety					
Syntax Description	This command has no arguments or keywords.					
Command Default						
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 A that is r	P itself named a	is configured	d with the <b>all</b> keyword, the <b>all</b> keyword access points take precedence over the AP			
Syntax Description	ciso	co_ap		Nam	e of access point for which you want packet queue statistics.			
	all			Disp	lays all access points.			
Command Default	Non	e						
Command History	Release		Modification					
	7.6		This command was introduced in a release earlier than Release 7.6.					
	The	The following example shows how to display packet queue statistics for access point ap417:						
	(Cisco Controller) > <b>show mesh queue-stats ap417</b> Queue Type Overflows Peak length Average length							
	Sil Golo	ver d	0 0	1 4	0.000 0.004			
	Pla Bro Mana	tinum nze agement	0 0 0	4 0 0	0.001 0.000 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 it that is nam	self is configured with the <b>all</b> keyword, the <b>all</b> keyword access points take precedence over the AP ned <b>all</b> .					
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.						
	(Cisco Controller) > <b>show mesh security-stats ap417</b> 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 F Association T Association S Authenticatic Authenticatic Re-Associatic Re-Associatic Re-Associatic Re-Authentica Re-Authentica	ailures 0 imeouts 0 uccesses 0 n Failures 0 n Timeouts 0 on Successes 0 on Failures 0 on Successes 0 on Successes 0 tion Failures 0 tion Timeouts 0 tion Successes 0					

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### show mesh stats

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

 show mesh stats cisco\_ap

 Syntax Description
 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.
--------------------	--------------------------------------------

None. **Command Default** 

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

> show mgmtuser							
User Name	Permissions	Description	Password Strength				
admin	read-write		Weak				

#### config mgmtuser add **Related Commands**

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.

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 Mobility Anchor E WLAN ID IP A	) > <b>show mobility anchor</b> xport List ddress Status					

**show mobility anchor** [**wlan** *wlan\_id* | **guest-lan** *guest\_lan\_id*]

 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

None

7.6

Release

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

Command History

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

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



Note

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

(Cisco Controller)	>show 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 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*

wlan	Displays the mobility WLAN foreign-map list.
wlan_id	Wireless LAN identifier between 1 and 512.
None	
Release	Modification
7.6	This command was introduced in a release earlier than Release 7.6.
	wlan       wlan_id       None       Release       7.6

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

(Cisco Co	ntroller) > <b>show mobility foreign-map wlan 2</b>	
Mobility	Foreign Map List	
WLAN ID	Foreign MAC Address	Interface
2	00:1b:d4:6b:87:20	dynamic-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	hash 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:

```
      (Cisco Controller) >show mobility group member hash

      Default Mobility Domain..... new-mob

      IP Address
      Hash Key

      9.2.115.68
      a819d479dcfeb3e0974421b6e8335582263d9169

      9.6.99.10
      0974421b6e8335582263d9169a819d479dcfeb3e

      9.7.7.7
      feb3e0974421b6e8335582263d9169a819d479dc
```

# show mobility oracle

To display the status of the mobility controllers known to the Mobility Oracle (MO) or display the details of the MO client database, use the **show mobility oracle** command.

	show mobil	ity oracl	le { client { deta	uil   sum	mary}   su	1mmary }		
Syntax Description	client Displays the MO client database.						_	
	detail	Display	ys details pertainin	g to a clien	t in MO client	t database	_	
	summary	Display	ys the summary of	the MO da	atabase.		_	
Command Default	None							
Command History	Release Modification							
	7.3.112.0 This command was introduced.			ed.				
	The followi	ng is a sa	ample output of the	e show mo	bility oracle	summary	command:	
	(Cisco Con	troller	) >show mobility	y oracle	summary			
	Number of	MCs			2			
	IP Address		MAC Address	Link	Status	Client	t Count	
	9.71.104.1 9.71.104.2	0 50	88:43:e1:7d:fe e8:b7:48:a2:16	:00 Cont :e0 Up	rol Path Dow	wn 0 2		
	The following is a sample output of the <b>show mobility oracle client summary</b> command: (Cisco Controller) > <b>show mobility oracle client summary</b>							
	Number of	Clients			2			
	MAC Addres	s 	Anchor MC	F	'oreign MC	As:	socTime	
	00:18:de:b 00:1e:e5:f	0:5c:91 9:c9:e2	9.72.104.250 9.72.104.250				0 0	
	The following is a sample output of the <b>show mobility oracle client detail</b> command:							
	(Cisco Controller) >show mobility oracle client detail 00:1e:e5:f9:c9:e2							
	Client MAC Client IP Anchor MC Anchor MC Foreign MC Client Ass	Address address IP addre NAT IP IP add: NAT IP	S : ess : address : ress : address : n Time .	· · · · · · · · · · · · · · · · · · ·	00 	:1e:e5:f9 0.0.0 71.104.29 71.104.29	9:c9:e2 50 50	

Client Entry update timestamp : ..... 1278543135.0

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# 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
GIODAL MODILILY STATISTICS
TX Errors
Responses Retransmitted
Handoff Requests Received
Handoff End Requests Received
State Transitions Disallowed
Resource Unavailable 0
Mobility Initiator Statistics
Handoff Requests Sent 0
Handoff Replies Received 0
Handoff as Local Received 2
Handoff as Foreign Received0
Handoff Denys Received0
Anchor Request Sent 0
Anchor Deny Received 0
Anchor Grant Received 0
Anchor Transfer Received 0
Mobility Responder Statistics
Handoff Requests Ignored0
Ping Pong Handoff Requests Dropped 0
Handoff Requests Dropped0
Handoff Requests Denied0
Client Handoff as Local0
Client Handoff as Foreign 0
Client Handoff Inter Group 0
Anchor Requests Received 0
Anchor Requests Denied 0
Anchor Requests Granted0
Anchor Transferred0

#### 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 Protocol Port	16666	
Mobility Security Mode	Disabled	
Default Mobility Domain	snmp gui	
Multicast Mode	Disabled	
Mobility Domain ID for 802.11r	0x66bd	
Mobility Keepalive Interval	10	
Mobility Keepalive Count	3	
Mobility Group Members Configured	1	
Mobility Control Message DSCP Value	0	
Controllers configured in the Mobility Group		
MAC Address IP Address Group Name	Multicast IP	Status
00:1b:d4:6b:87:20 1.100.163.70 snmp qui	0.0.0.0	Up

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

(Cisco Controller) >show mobility summary Mobility Protocol Port..... 16666 Default Mobility Domain..... Mobility Multicast Mode ..... Disabled Mobility Domain ID for 802.11r..... 0xb348 Mobility Keepalive Interval..... 10 Mobility Keepalive Count...... 3 Mobility Group Members Configured...... 3 Mobility Control Message DSCP Value..... 0 Controllers configured in the Mobility Group IP Address Public IP Address Group Name Multicast IP MAC Address Status 9.71.106.2 9.72.106.2 Mobility 0.0.0.0 00:00:00:00:00:00 Control and Data Path Down

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9.71.106.3 9.72.106.3	Mobility	0.0.0.0	00:00:00:00:00:00	Control and
Data Path Down				
9.71.106.69 9.72.106.69	Mobility	0.0.0.0	68:ef:bd:8e:5f:20	Up

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# show msglog

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

	show msglog This command has no arguments or keywords.		
Syntax Description			
Command Default	None		
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 promp	ted to display the messages shown in the example.	
	The following example shows how to display n	nessage logs:	
	<pre>(Cisco Controller) &gt;show msglog Message Log Severity Level Thu Aug 4 14:30:08 2005 [ERROR] spamAP failure was due to Link Failure Thu Aug 4 14:30:08 2005 [ERROR] spam 0b:85:18:b6:50 static 0, 1.100.49.240 Thu Aug 4 14:29:32 2005 [ERROR] dhcpd Thu Aug 4 14:29:32 2005 [ERROR] rmgro reset Thu Aug 4 14:29:32 2005 [ERROR] rrmgro itch group reset Thu Aug 4 14:29:22 2005 [ERROR] sim.c of interface ap-manager Thu Aug 4 14:29:22 2005 [ERROR] dtl_12 Thu Aug 4 14:29:22 2005 [ERROR] dtl_12 Thu Aug 4 14:29:22 2005 [ERROR] dtl_12 Thu Aug 4 14:29:14 2005 [CRITICAL] osa NULL pointer: osapi_bsntime.c:917 Thu Aug 4 14:29:14 2005 [CRITICAL] osa NULL pointer: osapi_bsntime.c:919 Thu Aug 4 14:29:14 2005 [CRITICAL] hww Thu Aug 4 14:29:14 2005 [CRITICAL] hww Thu Aug 4 14:29:14 2005 [CRITICAL] hww</pre>	<pre> ERROR Irad.c 1540: AP 00:0b:85:18:b6:50 associated. Last Irad.c 13840: Updating IP info for AP 00: 0/255.255.255.0, gtw 1.100.49.1 .c 78: dhcp server: binding to 0.0.0.0 pup.c 733: Airewave Director: 802.11a switch group pup.c 733: Airewave Director: 802.11bg sw 2841: Unable to get link state for primary port 0 2_dot1q.c 767: Unable to get USP age occurred 2 times api_sem.c 794: Error! osapiMutexTake called with api_sem.c 794: Error! osapiMutexTake called with putils.c 1861: Security Module not found</pre>	

#### 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

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

Release 7.6.

(Cisco (	Controller) > show nac statistics
Server	Index 1
Server	Address
xxx.xx	x.xxx.xxx
Number	of requests sent 0
Number	of retransmissions 0
Number	of requests received 0
Number	of malformed requests received 0
Number	of bad auth requests received 0
Number	of pending requests 0
Number	of timed out requests 0
Number	of misc dropped request received 0
Number	of requests sent 0

Related Commandsshow nac summary<br/>config guest-lan nac<br/>config wlan nac<br/>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:
 (Cisco Controller) > show nac summary

NAC AC	L Name		
Index	Server Address	Port	State
1	xxx.xxx.xxx.xxx	13336	Enabled

Related Commandsshow nac statistics<br/>config guest-lan nac<br/>config wlan nac<br/>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) > <b>show network</b>
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

This command has no arguments or keywords. Syntax Description None. **Command Default** 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 timeout..... 60 seconds IGMP Query Interval..... 20 seconds MLD snooping..... Disabled MLD timeout..... 60 seconds MLD query interval..... 20 seconds User Idle Timeout...... 300 seconds AP Join Priority..... Disable ARP Idle Timeout...... 300 seconds 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

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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 con	nmand was introduced in a release earlier than Release 7.6.	
	The following is a sample output of the <b>show netuser summary</b> command:		
	(Cisco Controller) > <b>show netuser summary</b> Maximum logins allowed for a given usernameUnlimited		
	The following is a sample output of the <b>show netuser detail</b> command:		
	(Cisco Controll	er) > <b>show netuser detail john10</b>	
	username WLAN Id	Anv	
	Lifetime	Permanent	
	Description	test user	
elated Commands	config netuser ad	ld	
	config netuser de	lete	
	config netuser description		
	config netuser gu	lest-role apply	
	config netuser wl	an-id	
	config netuser gu	lest-roles	

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# 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:

(Cisco Controller) > show netuser guest-roles
Role Name Contractor
Average Data Rate 10
Burst Data Rate 10
Average Realtime Rate 100
Burst Realtime Rate 100
Role Name Vendor
Average Data Rate unconfigured
Burst Data Rate unconfigured
Average Realtime Rate unconfigured
Burst Realtime Rate unconfigured

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:		
	<pre>&gt; show network multic Mgid Multicast Group Addre Vlan Rx Packet Count No of clients Client List Client MAC Ex 00:13:02:23:82:ad</pre>	ast mgid detail	
Related Commands	show network summary show network multicast	mgid detail	
	show network	5	

### 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
 vlanId

 MGID

 management
 0

 test
 0

 wired
 20

 Layer3 MGID Mapping:

 Number of Layer3 MGIDs
 1

 Group address
 Vlan
 MGID

 239.255.255.250
 0
 550

**Related Commands** show network summary

jiow neework 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	Disabled		
OCSP responder URL			
Secure Shell (ssh)	Enable		
Telnet	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		
IGMP Query Interval	20 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		
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		
Link Local Bridging Status	Disabled		

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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			
<b>Syntax Description</b> 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			
	Measurement interval: 8 sec Roque AP			
	Measurement interval: 2 sec Roque 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 statuscommand.

#### 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

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# show nmsp statistics

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

Syntax Description	summary Displ	ays common NMSP counters.		
	<b>connection all</b> Displ	ays all connection-specific counters.		
ommand Default	None.	None.		
	This example shows how to display a summary of common NMSP counters:			
	> show nmsp statistics summa	ary		
	Send RSSI with no entry:	0		
	Send too big msg:	0		
	Failed SSL write:	0		
	Partial SSL write:	0		
	SSL write attempts to want w	vrite:		
	Transmit Q full:0			
	Max Measure Notify Msg:	0		
	Max Info Notify Msg:	0		
	Max Tx Q Size:	2		
	Max Rx Size:	1		
	Max Info Notify Q Size:	0		
	Max Client Info Notify Delay	7: 0		
	Max Rogue AP Info Notify Del	ay: 0		
	Max Rogue Client Info Notify	y Delay: 0		
	Max Client Measure Notify De	elay: O		
	Max Tag Measure Notify Delay	<i>y</i> : 0		
	Max Rogue AP Measure Notify	Delay: 0		
	Max Rogue Client Measure Not	tify Delay: 0		
	Max Client Stats Notify Dela	ay: 0		
	Max Tag Stats Notify Delay:	0		
	RFID Measurement Periodic :	0		
	RFID Measurement Immediate :	0		
	Reconnect Before Conn Timeou	at: 0		
	This example shows how to displ	ay all the connection-specific NMSP counters:		

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

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** | **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 Subscribed by 2001:9:6:40::623
Services 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 ntp-keys

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

show ntp-keys			
Syntax Description	<b>Description</b> 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) > <b>show ntp-keys</b> Ntp Authentication Key Details Key Index		
	1 3		

Related Commands

config time ntp

### show ntp-keys

**Related Commands** 

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

show ntp-keys This command has no arguments or keywords. **Syntax Description** None **Command Default Command History** Modification Release 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 config time ntp

# show pmk-cache

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

	show pmk-cache	$\{$ <b>all</b>   <i>MAC</i> $\}$					
Syntax Description	all Displays information about all entries in the PMK cache.						
	MAC	Inform	ation about a single entr	y in the PMK cache.			
Command Default	None						
Command History	Release	Modification	1				
	7.6	7.6This 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 Controlle	er) > <b>show pmk-</b>	cache xx:xx:xx:xx:xx	::xx			
	The following example	mple shows how	to display information	about all entries in the PMK cache:			
	(Cisco Controlle PMK Cache	er) > <b>show pmk-</b>	cache all				
	Station	Lifetime	VLAN Override	IP Override			

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### show pmipv6 domain

7.6

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. Specifies the PMIPv6 profile.				
	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				

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
```

This command was introduced in a release earlier than

### 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*]

Syntax Description	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 glo	bals
Domain : D1	
MAG Identifier : M1	
MAG Interface	: Management
Max Bindings	: 10000
Registration Lifetime	: 3600 (sec)
BRI Init-delay time	: 1000 (msec)
BRI Max-delay time	: 2000 (msec)
BRI Max retries	: 1
Refresh time	: 300 (sec)
Refresh RetxInit time	: 1000 (msec)
Refresh RetxMax time	: 32000 (msec)
Timestamp option	: Enabled
Validity Window	: 7
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 list

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]: 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	<b>yntax Description</b> 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 dia	splay 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-r	name [statistics] }				
Syntax Description	summary	Displays the summary	y of configured policies.				
	policy-name	Name of the policy.					
	statistics	(Optional) Displays t	he statistics of a policy.				
Command Default	None						
Command History	Release Mod	ification					
	7.5 This	command was introduc	ed.				
	The following	is a sample output of t	he show policy summary con	mmand:			
	(Cisco Contr	coller) > show polic	cy summary				
	Number of Po	olicies	2				
	Policy Index Policy Name						
	1 2	student-FullAccess teacher-FullAccess	3				
	The following example shows how to display the details of a policy:						
	(Cisco Controller) > show policy student-FullAccess						
	Policy Ind Match Role Match Eap ACL QOS Average Da Average Ro Burst Data Burst Rea Vlan Id Session T Sleeping of Active Hot	dex Type ata Rate eal Time Rate a Rate l Time Rate client timeout		1 <none> EAP-TLS  <none>  0  0  0  0  0  155  1800  12</none></none>			
	Ctort Time		Dati				
	JUALU IIII0						

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	student-FullAccess
Matching Attributes None	619
No Policy Match	224
Device Type Match	0
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 | vlan}

Syntax Description	port-number	Port number of the physical interface.
	summary	Displays a summary of all ports.
	detailed-info	Displays detailed port information.
	vlan	Displays VLAN port table summary.
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 an individual wireless LAN controller port:

```
(Cisco Controller) > show port 1
      STP
           Admin Physical Physical
                                Link
                                     Link
                                           Mcast
           Mode Mode Status
Pr Type Stat
                              Status Trap Appliance
                                                POE
  ___
_____
                       1000 Full Down Enable Enable
1 Normal Disa Enable Auto
                                                N/A
```

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**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:

(C:	lsco Contr	oller) >	show po	rt summary						
		STP	Admin	Physical	Phys	sical	Link	Link	k Mcast	
Pr S	Туре FPTуре 	Stat	Mode	Mode	Statu	s Sta	itus Tr	ap 7	Appliance	POE
1 N	Normal otPreser	Forw H	Enable	Auto	1000 F	ull Up	o En	able	Enable	N/A
2 N	Normal otPreser	Disa H nt	Enable	Auto	1000 F	ull Dc	own En	able	Enable	N/A
3	Normal	Disa H	Enable	Auto	1000 F	ull Dc	wn En	able	Enable	N/A

NotPresent 4 Normal Disa Enable Auto 1000 Full Down Enable Enable N/A NotPresent



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

### 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	Parent	Min CM	Valid
	Android	None	30	Yes
1	Apple-Device	None	10	Yes
2	Apple-MacBook	1	20	Yes
2	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

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1	5 Cisco-IP-Phone-7975	13	70	Yes
1	6 Cisco-IP-Phone-9971	13	70	Yes
1	7 Cisco-DMP	12	20	Yes
1	8 Cisco-DMP-4400	17	70	Yes
1	9 Cisco-DMP-4310	17	70	Yes
2	0 Cisco-DMP-4305	17	70	Yes
2	1 DLink-Device	None	10	Yes
2	2 Enterasys-Device	None	10	Yes
2	3 HP-Device	None	10	Yes
2	4 HP-JetDirect-Printer	23	30	Yes
2	5 Lexmark-Device	None	10	Yes
2	6 Lexmark-Printer-E260dn	25	30	Yes
2	7 Microsoft-Device	None	10	Yes
2	8 Netgear-Device	None	10	Yes
2	9 NintendoWII	None	10	Yes
3	0 Nortel-Device	None	10	Yes
3	1 Nortel-IP-Phone-2000-Series	30	20	Yes
3	2 SonyPS3	None	10	Yes
3	3 XBOX360	27	20	Yes
3	4 Xerox-Device	None	10	Yes
3	5 Xerox-Printer-Phaser3250	34	30	Yes
3	6 Aruba-AP	6	20	Yes
3	7 Cisco-Access-Point	12	10	Yes
3	8 Cisco-IP-Conference-Station-7935	13	70	Yes
3	9 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.

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 WI		
Command Default	None.		
	This example show	vs how to display QoS information for the gold profile:	
	Description.For Video ApplicationsMaximum Priority.videoUnicast Default Priority.videoMulticast Default Priority.videoPer-SSID Rate Limits.UpstreamDownstreamAverage Data Rate.0 0Average Realtime Data Rate.0 0Burst Data Rate.0 0Burst Realtime Data Rate.0 0Per-Client Rate Limits.UpstreamDownstreamAverage Realtime Data Rate.0 0Burst Realtime Data Rate.0 0Burst Realtime Data Rate.0 0Burst Realtime Data Rate.0 0Burst Data Rate.0 0Burst Data Rate.0 0Burst Realtime Data Rate.0 0		
	802.11a Customiz ecwmin ecwmax aifs txop	zed EDCA Settings: 	
	802.11a Customiz Packet retry tim Not retrying thr Disassociating t Time out value	zed packet parameter Settings: ne	

**Related Commands** config qos protocol-type

## show qos qosmap

To see the current QoS map configuration, use the  $\mathbf{show}\ \mathbf{qos}$  command.

	show qos qosmap		
Syntax Description	qosmap	Displays the current QoS map	
Command Default	None		
Command History	Release	Modification	

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

This command has no arguments or keywords. **Syntax Description** 

None **Command Default** 

**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.