



Show Commands

This chapter describes the Cisco NX-OS security **show** commands.

show aaa accounting

To display AAA accounting configuration information, use the **show aaa accounting** command.

show aaa accounting

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the configuration of the accounting log:

```
switch# show aaa accounting
      default: local
```

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show aaa authentication

To display AAA authentication configuration information, use the **show aaa authentication** command.

```
show aaa authentication [login error-enable | login mschap | login mschapv2 | login
ascii-authentication]
```

Syntax Description	
login error-enable	(Optional) Displays the configuration for login error messages.
login mschap	(Optional) Displays the configuration for MS-CHAP authentication.
login mschapv2	(Optional) Displays the configuration for MS-CHAP V2 authentication.
login ascii-authentication	(Optional) Displays the configuration for ASCII authentication for passwords on TACACS+ servers.

Defaults Displays the console and login authentication methods configuration.

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.2(1)	Added the mschapv2 keyword.
	4.1(2)	Added the ascii-authentication keyword.
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the configured authentication parameters:

```
switch# show aaa authentication
      default: local
      console: local
      dot1x: not configured
      eou: not configured
```

This example shows how to display the authentication-login error-enable configuration:

```
switch# show aaa authentication login error-enable
disabled
```

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This example shows how to display the authentication-login MSCHAP configuration:

```
switch# show aaa authentication login mschap
disabled
```

This example shows how to display the authentication-login MSCHAP V2 configuration:

```
switch# show aaa authentication login mschapv2
enabled
```

The following example displays the status of the ASCII authentication for passwords feature:

```
switch(config)# show aaa authentication login ascii-authentication
disabled
```

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show aaa authorization

To display AAA authorization configuration information, use the **show aaa authorization** command.

show aaa authorization [**all**]

Syntax Description	all (Optional) Displays configured and default values.
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Defaults	Displays the configured information.
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Command Modes	Any command mode
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SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
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Command History	Release	Modification
	4.2(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
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Examples	This example shows how to display the configured authorization methods:
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```
switch# show aaa authorization
AAA command authorization:
  default authorization for config-commands: none
  cts: group radius
```

This example shows how to display the configured authorization methods and defaults:

```
switch# show aaa authorization all
AAA command authorization:
  default authorization for config-commands: none
  default authorization for commands: local
  cts: group radius
```

Related Commands	Command	Description
	feature cts	Enables the Cisco TrustSec feature.
feature tacacs+	Enables the TACACS+ feature.	

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show aaa groups

To display AAA server group configuration, use the **show aaa groups** command.

show aaa groups

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display AAA group information:

```
switch# show aaa groups
radius
TacServer
```

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show aaa user default-role

To display the AAA user default role configuration, use the **show aaa user default-role** command.

show aaa user default-role

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(3)	This command was introduced.

Usage Guidelines Use the **aaa user default-role** command to configure the AAA user default role. This command does not require a license.

Examples This example shows how to display the AAA user default role configuration:

```
switch# show aaa user default-role
enabled
```

Related Commands	Command	Description
	aaa user default-role	Enables the AAA user default role.

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show access-lists

To display all IPv4, IPv6, and MAC access control lists (ACLs) or a specific ACL, use the **show access-lists** command.

show access-lists [*access-list-name*] [**expanded** | **summary**]

Syntax Description	
<i>access-list-name</i>	(Optional) Name of an ACL, which can be up to 64 alphanumeric, case-sensitive characters.
expanded	(Optional) Specifies that the contents of object groups appear rather than the names of object groups only.
summary	(Optional) Specifies that the command displays information about the ACL. For more information, see the “Usage Guidelines” section.

Defaults None

Command Modes Any command mode

Supported User Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.2(1)	Command output is sorted alphabetically by the ACL names. Support was added for the fragments command.
	4.1(2)	Support for IPv6 ACLs was added.
	4.0(1)	This command was introduced.

Usage Guidelines

The device shows all ACLs unless you use the *access-list-name* argument to specify an ACL. If you do not specify an ACL name, the device lists ACLs alphabetically by the ACL names.

The **expanded** keyword allows you to display the details of object groups used in an ACL rather than only the name of the object groups. For more information about object groups, see the **object-group ip address**, **object-group ipv6 address**, and **object-group ip port** commands.

The **summary** keyword allows you to display information about the ACL rather than the ACL configuration. The information displayed includes the following:

- Whether per-entry statistics are configured for the ACL.
- Whether the **fragments** command is configured for an IP ACL.

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- The number of rules in the ACL configuration. This number does not reflect how many entries that the ACL contains when the device applies it to an interface. If a rule in the ACL uses an object group, the number of entries in the ACL when it is applied may be much greater than the number of rules.
- The interfaces that the ACL is applied to.
- The interfaces that the ACL is active on.

The **show access-lists** command displays statistics for each entry in an ACL if the following conditions are both true:

- The ACL configuration contains the **statistics per-entry** command.
- The ACL is applied to an interface that is administratively up.

If an IP ACL includes the **fragments** command, it appears before the explicit permit and deny rules, but the device applies the **fragments** command to noninitial fragments only if they do not match all other explicit rules in the ACL.

This command does not require a license.

Examples

This example shows how to use the **show access-lists** command without specifying an ACL name on a device that has one IP ACL and one MAC ACL configured:

```
switch# show access-lists

IP access list ip-v4-filter
  10 permit ip any any
MAC access list mac-filter
  10 permit 00c0.4f00.0000 0000.00ff.ffff 0060.3e00.0000 0000.00ff.ffff ip
```

This example shows how to use the **show access-lists** command to display an IPv4 ACL named `ipv4-RandD-outbound-web`, including per-entry statistics for the entries except for the MainLab object group:

```
switch# show access-lists ipv4-RandD-outbound-web

IP access list ipv4-RandD-outbound-web
  statistics per-entry
  1000 permit ahp any any [match=732]
  1005 permit tcp addrgroup MainLab any eq telnet
  1010 permit tcp any any eq www [match=820421]
```

This example shows how to use the **show access-lists** command to display an IPv4 ACL named `ipv4-RandD-outbound-web`. The **expanded** keyword causes the contents of the object group from the previous example to appear, including the per-entry statistics:

```
switch# show access-lists ipv4-RandD-outbound-web expanded

IP access list ipv4-RandD-outbound-web
  statistics per-entry
  1000 permit ahp any any [match=732]
  1005 permit tcp 10.52.34.4/32 any eq telnet [match=5032]
  1005 permit tcp 10.52.34.27/32 any eq telnet [match=433]
  1010 permit tcp any any eq www [match=820421]
```

This example shows how to use the **show access-lists** command with the **summary** keyword to display information about an IPv4 ACL named `ipv4-RandD-outbound-web`, such as which interfaces the ACL is applied to and active on:

```
switch# show access-lists ipv4-RandD-outbound-web summary
IPV4 ACL ipv4-RandD-outbound-web
```


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```
Statistics enabled
Total ACEs Configured: 4
Configured on interfaces:
    Ethernet2/4 - ingress (Router ACL)
Active on interfaces:
    Ethernet2/4 - ingress (Router ACL)
```

Related Commands

Command	Description
fragments	Configures how an IP ACL processes noninitial fragments.
ip access-list	Configures an IPv4 ACL.
mac access-list	Configures a MAC ACL.
show ip access-lists	Displays all IPv4 ACLs or a specific IPv4 ACL.
show mac access-lists	Displays all MAC ACLs or a specific MAC ACL.

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show accounting log

To display the accounting log contents, use the **show accounting log** command.

```
show accounting log [size | last-index | start-seqnum number | start-time year month day
HH:MM:SS]
```

Syntax Description		
<i>size</i>	(Optional) Size of the log to display in bytes. The range is from 0 to 250000.	
last-index	(Optional) Displays the last index number in the log.	
start-seqnum <i>number</i>	(Optional) Specifies a sequence number in the log at which to begin display output. The range is from 1 to 1000000.	
start-time <i>year month day HH:MM:SS</i>	(Optional) Specifies a start time in the log at which to begin displaying output. The <i>year</i> argument is in yyyy format. The <i>month</i> is the three-letter English abbreviation. The <i>day</i> argument range is from 1 to 31. The <i>HH:MM:SS</i> argument is in the standard 24-hour format.	

Defaults	
None	

Command Modes	
Any command mode	

SupportedUserRoles	
network-admin network-operator vdc-admin vdc-operator	

Command History	Release	Modification
	4.2(1)	Added the last-index and start-seqnum keyword options.
	4.0(1)	This command was introduced.

Usage Guidelines	
This command does not require a license.	

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Examples

This example shows how to display the entire accounting log:

```
switch# show accounting log

Sat Feb 16 10:44:24 2008:update:/dev/pts/1_172.28.254.254:admin:show system uptime
Sat Feb 16 10:44:25 2008:update:/dev/pts/1_172.28.254.254:admin:show clock
Sat Feb 16 10:45:20 2008:update:/dev/pts/1_172.28.254.254:admin:show logging log
file start-time 2008 Feb 16 10:44:11
Sat Feb 16 10:45:23 2008:update:/dev/pts/1_172.28.254.254:admin:show accounting
log start-time 2008 Feb 16 10:08:57
Sat Feb 16 10:45:24 2008:update:/dev/pts/1_172.28.254.254:admin:show system uptime
Sat Feb 16 10:45:25 2008:update:/dev/pts/1_172.28.254.254:admin:show clock
Sat Feb 16 10:46:20 2008:update:/dev/pts/1_172.28.254.254:admin:show logging log
file start-time 2008 Feb 16 10:45:11
Sat Feb 16 10:46:22 2008:update:/dev/pts/1_172.28.254.254:admin:show accounting
```

This example shows how to display 400 bytes of the accounting log:

```
switch# show accounting log 400

Sat Feb 16 21:15:24 2008:update:/dev/pts/1_172.28.254.254:admin:show accounting log
start-time 2008 Feb 16 18:31:21
Sat Feb 16 21:15:25 2008:update:/dev/pts/1_172.28.254.254:admin:show system uptime
Sat Feb 16 21:15:26 2008:update:/dev/pts/1_172.28.254.254:admin:show clock
```

This example shows how to display the accounting log starting at 16:00:00 on February 16, 2008:

```
switch(config)# show accounting log start-time 2008 Feb 16 16:00:00

Sat Feb 16 16:00:18 2008:update:/dev/pts/1_172.28.254.254:admin:show logging log file
start-time 2008 Feb 16 15:59:16
Sat Feb 16 16:00:26 2008:update:/dev/pts/1_172.28.254.254:admin:show accounting log
start-time 2008 Feb 16 12:05:16
Sat Feb 16 16:00:27 2008:update:/dev/pts/1_172.28.254.254:admin:show system uptime
Sat Feb 16 16:00:28 2008:update:/dev/pts/1_172.28.254.254:admin:show clock
Sat Feb 16 16:01:18 2008:update:/dev/pts/1_172.28.254.254:admin:show logging log file
start-time 2008 Feb 16 16:00:16
Sat Feb 16 16:01:26 2008:update:/dev/pts/1_172.28.254.254:admin:show accounting log
start-time 2008 Feb 16 12:05:16
Sat Feb 16 16:01:27 2008:update:/dev/pts/1_172.28.254.254:admin:show system uptime
Sat Feb 16 16:01:29 2008:update:/dev/pts/1_172.28.254.254:admin:show clock
Sat Feb 16 16:02:18 2008:update:/dev/pts/1_172.28.254.254:admin:show logging log file
start-time 2008 Feb 16 16:01:16
Sat Feb 16 16:02:26 2008:update:/dev/pts/1_172.28.254.254:admin:show accounting log
start-time 2008 Feb 16 12:05:16
Sat Feb 16 16:02:28 2008:update:/dev/pts/1_172.28.254.254:admin:show system uptime
```

This example shows how to display the last index number:

```
switch# show accounting log last-index
accounting-log last-index : 1814
```

Related Commands

Command	Description
clear accounting log	Clears the accounting log.

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show arp access-lists

To display all ARP access control lists (ACLs) or a specific ARP ACL, use the **show arp access-lists** command.

```
show arp access-lists [access-list-name]
```

Syntax Description

<i>access-list-name</i>	(Optional) Name of an ARP ACL, which can be up to 64 alphanumeric, case-sensitive characters.
-------------------------	---

Defaults

None

Command Modes

Any command mode

Supported User Roles

network-admin
network-operator
vdc-admin
vdc-operator

Command History

Release	Modification
4.0(1)	This command was introduced.

Usage Guidelines

The device shows all ARP ACLs, unless you use the *access-list-name* argument to specify an ACL. This command does not require a license.

Examples

This example shows how to use the **show arp access-lists** command to display all ARP ACLs on a device that has two ARP ACLs:

```
switch# show arp access-lists

ARP access list arp-permit-all
10 permit ip any mac any
ARP access list arp-lab-subnet
10 permit request ip 10.32.143.0 255.255.255.0 mac any
```

This example shows how to use the **show arp access-lists** command to display an ARP ACL named arp-permit-all:

```
switch# show arp access-lists arp-permit-all

ARP access list arp-permit-all
10 permit ip any mac any
```

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Related Commands	Command	Description
	arp access-list	Configures an ARP ACL.
	ip arp inspection filter	Applies an ARP ACL to a VLAN.

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show class-map type control-plane

To display control plane class map information, use the **show class-map type control-plane** command.

```
show class-map type control-plane [class-map-name]
```

Syntax Description	<i>class-map-name</i> (Optional) Name of the control plane class map.
---------------------------	---

Defaults	None
-----------------	------

Command Modes	Any command mode
----------------------	------------------

Supported User Roles	network-admin network-operator vdc-admin vdc-operator
-----------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	You can use this command only in the default virtual device context (VDC). This command does not require a license.
-------------------------	--

Examples	This example shows how to display control plane class map information:
-----------------	--

```
switch# show class-map type control-plane

class-map type control-plane match-any copp-system-class-critical
  match access-grp name copp-system-acl-arp
  match access-grp name copp-system-acl-msdp

class-map type control-plane match-any copp-system-class-important
  match access-grp name copp-system-acl-gre
  match access-grp name copp-system-acl-tacas

class-map type control-plane match-any copp-system-class-normal
  match access-grp name copp-system-acl-icmp
  match redirect dhcp-snoop
  match redirect arp-inspect
  match exception ip option
  match exception ip icmp redirect
  match exception ip icmp unreachable
```

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show copp status

To display the control plane policing (CoPP) configuration status, use the **show copp status** command.

show copp status

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
vdc-admin
network-operator
vdc-operator

Command History	Release	Modification
	4.0(2)	This command was introduced.

Usage Guidelines You can use this command only in the default virtual device context (VDC).
This command does not require a license.

Examples This example shows how to display the CoPP configuration status information:

```
switch# show copp status
Last Config Operation: service-policy input copp-system-policy
Last Config Operation Timestamp: 21:57:58 UTC Jun  4 2008
Last Config Operation Status: Success
Policy-map attached to the control-plane: new-copp-policy
```

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show crypto ca certificates

To display configured trustpoint certificates, use the **show crypto ca certificates** command.

show crypto ca certificates *trustpoint-label*

Syntax Description	<i>trustpoint-label</i>	Name of the trustpoint. The name is case sensitive.
--------------------	-------------------------	---

Defaults	None
----------	------

Command Modes	Any configuration mode
---------------	------------------------

SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
--------------------	--

Command History	Release	Modification
	4.1(2)	This command was introduced.

Usage Guidelines

Use this command to display the fields in the identity certificate, if present, followed by the fields in the CA certificate (or each CA certificate if it is a chain, starting from the lowest to the self-signed root certificate), or the trustpoint. If the trustpoint name is not specified, all trustpoint certificate details are displayed.

This command does not require a license.

Examples

This example shows how to display configured trustpoint certificates:

```
switch# show crypto ca certificates
Trustpoint: admin-ca
certificate:
subject= /CN=switch160
issuer= /C=US/O=cisco/CN=Aparna CA2
serial=6CDB2D9E000100000006
notBefore=Jun  9 10:51:45 2005 GMT
notAfter=May  3 23:10:36 2006 GMT
MD5 Fingerprint=0A:22:DC:A3:07:2A:9F:9A:C2:2C:BA:96:EC:D8:0A:95
purposes: sslserver sslclient ike

CA certificate 0:
subject= /C=US/O=cisco/CN=Aparna CA2
issuer= /emailAddress=amandke@cisco.com/C=IN/ST=Maharashtra/L=Pune/O=cisco/OU=ne
tstorage/CN=Aparna CA1
serial=14A3A877000000000005
```


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```
notBefore=May  5 18:43:36 2005 GMT
notAfter=May  3 23:10:36 2006 GMT
MD5 Fingerprint=32:50:26:9B:16:B1:40:A5:D0:09:53:0A:98:6C:14:CC
purposes: sslserver sslclient ike
```

```
CA certificate 1:
subject= /emailAddress=amandke@cisco.com/C=IN/ST=Maharashtra/L=Pune/O=cisco/OU=netstorage/CN=Aparna CA1
issuer= /emailAddress=amandke@cisco.com/C=IN/ST=Karnataka/L=Bangalore/O=Cisco/OU=netstorage/CN=Aparna CA
serial=611B09A1000000000002
notBefore=May  3 23:00:36 2005 GMT
notAfter=May  3 23:10:36 2006 GMT
MD5 Fingerprint=65:CE:DA:75:0A:AD:B2:ED:69:93:EF:5B:58:D4:E7:AD
purposes: sslserver sslclient ike
```

```
CA certificate 2:
subject= /emailAddress=amandke@cisco.com/C=IN/ST=Karnataka/L=Bangalore/O=Cisco/OU=netstorage/CN=Aparna CA
issuer= /emailAddress=amandke@cisco.com/C=IN/ST=Karnataka/L=Bangalore/O=Cisco/OU=netstorage/CN=Aparna CA
serial=0560D289ACB419944F4912258CAD197A
notBefore=May  3 22:46:37 2005 GMT
notAfter=May  3 22:55:17 2007 GMT
MD5 Fingerprint=65:84:9A:27:D5:71:03:33:9C:12:23:92:38:6F:78:12
purposes: sslserver sslclient ike
```

Related Commands

Command	Description
crypto ca authenticate	Authenticates the certificate of the CA.
show ca trustpoints	Displays trustpoint configurations.

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show crypto ca crl

To display configured certificate revocation lists (CRLs), use the **show crypto ca crl** command.

```
show crypto ca crl trustpoint-label
```

Syntax Description	<i>trustpoint-label</i>	Name of the trustpoint. The label is case sensitive.
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Defaults	None
----------	------

Command Modes	Any configuration mode
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SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
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Command History	Release	Modification
	4.1(2)	This command was introduced.

Usage Guidelines	Use this command to list the serial numbers of the revoked certificates in the CRL of the specified trustpoint.
------------------	---

This command does not require a license.

Examples	This example shows how to display a configured CRL:
----------	---

```
switch# show crypto ca crl admin-ca
Trustpoint: admin-ca
CRL:
Certificate Revocation List (CRL):
  Version 2 (0x1)
  Signature Algorithm: sha1WithRSAEncryption
  Issuer: /emailAddress=rviyoka@cisco.com/C=IN/ST=Kar/L=Bangalore/O=Cisco
Systems/OU=1/CN=cisco-blr
  Last Update: Sep 22 07:05:23 2005 GMT
  Next Update: Sep 29 19:25:23 2005 GMT
  CRL extensions:
    X509v3 Authority Key Identifier:
      keyid:CF:72:E1:FE:14:60:14:6E:B0:FA:8D:87:18:6B:E8:5F:70:69:05:3F

    1.3.6.1.4.1.311.21.1:
      ...
Revoked Certificates:
  Serial Number: 1E0AE838000000000002
  Revocation Date: Mar 15 09:12:36 2005 GMT
```

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```
Serial Number: 1E0AE9AB000000000003
  Revocation Date: Mar 15 09:12:45 2005 GMT
Serial Number: 1E721E50000000000004
  Revocation Date: Apr 5 11:04:20 2005 GMT
Serial Number: 3D26E445000000000005
  Revocation Date: Apr 5 11:04:16 2005 GMT
Serial Number: 3D28F8DF000000000006
  Revocation Date: Apr 5 11:04:12 2005 GMT
Serial Number: 3D2C6EF3000000000007
  Revocation Date: Apr 5 11:04:09 2005 GMT
Serial Number: 3D4D7DDC000000000008
  Revocation Date: Apr 5 11:04:05 2005 GMT
Serial Number: 5BF1FE87000000000009
  Revocation Date: Apr 5 11:04:01 2005 GMT
Serial Number: 5BF22FB300000000000A
  Revocation Date: Apr 5 11:03:45 2005 GMT
Serial Number: 5BFA4A4900000000000B
  Revocation Date: Apr 5 11:03:42 2005 GMT
Serial Number: 5C0BC22500000000000C
  Revocation Date: Apr 5 11:03:39 2005 GMT
Serial Number: 5C0DA95E00000000000D
  Revocation Date: Apr 5 11:03:35 2005 GMT
Serial Number: 5C13776900000000000E
  Revocation Date: Apr 5 11:03:31 2005 GMT
Serial Number: 4864FD5A00000000000F
  Revocation Date: Apr 5 11:03:28 2005 GMT
Serial Number: 4864E2E0000000000010
  Revocation Date: Apr 5 11:03:24 2005 GMT
Serial Number: 486D4230000000000011
  Revocation Date: Apr 5 11:03:20 2005 GMT
Serial Number: 7FCB75B9000000000012
  Revocation Date: Apr 5 10:39:12 2005 GMT
Serial Number: 1A751900000000000013
  Revocation Date: Apr 5 10:38:52 2005 GMT
Serial Number: 20F1B000000000000014
  Revocation Date: Apr 5 10:38:38 2005 GMT
Serial Number: 436E43A9000000000023
  Revocation Date: Sep 9 09:01:23 2005 GMT
  CRL entry extensions:
    X509v3 CRL Reason Code:
      Cessation Of Operation
Serial Number: 152D3C5E000000000047
  Revocation Date: Sep 22 07:12:41 2005 GMT
Serial Number: 1533AD7F000000000048
  Revocation Date: Sep 22 07:13:11 2005 GMT
Serial Number: 1F9EB8EA00000000006D
  Revocation Date: Jul 19 09:58:45 2005 GMT
  CRL entry extensions:
    X509v3 CRL Reason Code:
      Cessation Of Operation
Serial Number: 1FCA9DC600000000006E
  Revocation Date: Jul 19 10:17:34 2005 GMT
  CRL entry extensions:
    X509v3 CRL Reason Code:
      Cessation Of Operation
Serial Number: 2F1B5E2E000000000072
  Revocation Date: Jul 22 09:41:21 2005 GMT
  CRL entry extensions:
    X509v3 CRL Reason Code:
      Cessation Of Operation
Signature Algorithm: sha1WithRSAEncryption
4e:3b:4e:7a:55:6b:f2:ec:72:29:70:16:2a:fd:d9:9a:9b:12:
f9:cd:dd:20:cc:e0:89:30:3b:4f:00:4b:88:03:2d:80:4e:22:
9f:46:a5:41:25:f4:a5:26:b7:b6:db:27:a9:64:67:b9:c0:88:
```

■ show crypto ca crl

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30:37:cf:74:57:7a:45:5f:5e:d0

Related Commands

Command	Description
crypto ca crl request	Configures a CRL or overwrites the existing one for the trustpoint CA.

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show crypto ca trustpoints

To display trustpoint configurations, use the **show crypto ca trustpoints** command.

show crypto ca trustpoints

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.1(2)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display configured trustpoints:

```
switch# show crypto ca trustpoints
trustpoint: CAname; key:
revokation methods:  crl
```

Related Commands	Command	Description
	crypto ca authenticate	Authenticates the certificate of the CA.
	crypto ca trustpoint	Declares the trustpoint certificate authority that the device should trust.
	show crypto ca certificates	Displays configured trustpoint certificates.

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show crypto key mypubkey rsa

To display the RSA public key configurations, use the **show crypto key mypubkey rsa** command.

show crypto key mypubkey rsa

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.1(2)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display RSA public key configurations:

```
switch# show crypto key mypubkey rsa
key label: myrsa
key size: 512
exportable: yes
```

Related Commands	Command	Description
	crypto ca enroll	Requests certificates for the switch's RSA key pair.
	crypto key generate rsa	Generate an RSA key pair.
	rsa keypair	Configure trustpoint RSA key pair details

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show cts

To display the global Cisco TrustSec configuration, use the **show cts** command.

```
show cts
```

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
vdc-admin
network-operator
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines To use this command, you must enable the Cisco TrustSec feature using the **feature cts** command. This command requires the Advanced Services license.

Examples This example shows how to display the Cisco TrustSec global configuration:

```
switch# show cts
CTS Global Configuration
=====
CTS support           : enabled
CTS device identity  : Device1
CTS caching support  : disabled

Number of CTS interfaces in
DOT1X mode : 0
Manual mode : 0
```

Related Commands	Command	Description
	feature cts	Enables the Cisco TrustSec feature.

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show cts credentials

To display the Cisco TrustSec device credentials configuration, use the **show cts credentials** command.

show cts credentials

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
vdc-admin
network-operator
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines To use this command, you must enable the Cisco TrustSec feature using the **feature cts** command. This command requires the Advanced Services license.

Examples This example shows how to display the Cisco TrustSec credentials configuration:

```
switch# show cts credentials
CTS password is defined in keystore, device-id = Device1
```

Related Commands	Command	Description
	feature cts	Enables the Cisco TrustSec feature.

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show cts environment-data

To display the global Cisco TrustSec environment data, use the **show cts environment-data** command.

show cts environment-data

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
vdc-admin
network-operator
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines To use this command, you must enable the Cisco TrustSec feature using the **feature cts** command. The Cisco NX-OS device downloads the Cisco TrustSec environment data from the ACS after you have configured the Cisco TrustSec credentials for the device and configured authentication, authorization, and accounting (AAA).

This command requires the Advanced Services license.

Examples This example shows how to display the Cisco TrustSec environment data:

```
switch# show cts environment-data
CTS Environment Data
=====
Current State           : CTS_ENV_DNLD_ST_ENV_DOWNLOAD_DONE
Last Status             : CTS_ENV_SUCCESS
Local Device SGT        : 0x0002
Transport Type          : CTS_ENV_TRANSPORT_DIRECT
Data loaded from cache  : FALSE
Env Data Lifetime       : 300 seconds after last update
Last Update Time        : Sat Jan  5 16:29:52 2008

Server List             : ACSServerList1
                        AID:74656d706f72617279 IP:10.64.65.95 Port:1812
```

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Related Commands	Command	Description
	feature cts	Enables the Cisco TrustSec feature.

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show cts interface

To display the Cisco TrustSec information for interfaces, use the **show cts interface** command.

```
show cts interface {all | ethernet slot/port}
```

Syntax Description	all	Displays Cisco TrustSec information for all interfaces.
	interface slot/port	Displays Cisco TrustSec information for the specific interface.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
vdc-admin
network-operator
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines To use this command, you must enable the Cisco TrustSec feature using the **feature cts** command. This command requires the Advanced Services license.

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Examples

This example shows how to display the Cisco TrustSec configuration for all interfaces:

```
switch# show cts interface all
CTS Information for Interface Ethernet2/24:
CTS is enabled, mode:      CTS_MODE_DOT1X
IFC state:                 CTS_IFC_ST_CTS_OPEN_STATE
Authentication Status:    CTS_AUTHC_SUCCESS
  Peer Identity:          india1
  Peer is:                 CTS Capable
  802.1X role:            CTS_ROLE_AUTH
  Last Re-Authentication:
Authorization Status:     CTS_AUTHZ_SUCCESS
  PEER SGT:                2
  Peer SGT assignment:    Trusted
  Global policy fallback access list:
SAP Status:                CTS_SAP_SUCCESS
  Configured pairwise ciphers: GCM_ENCRYPT
  Replay protection:      Enabled
  Replay protection mode: Strict
  Selected cipher:        GCM_ENCRYPT
  Current receive SPI:    sci:1b54c1fbff0000 an:0
  Current transmit SPI:   sci:1b54c1fc000000 an:0

CTS Information for Interface Ethernet2/25:
CTS is enabled, mode:      CTS_MODE_DOT1X
IFC state:                 CTS_IFC_ST_CTS_OPEN_STATE
Authentication Status:    CTS_AUTHC_SUCCESS
  Peer Identity:          india1
  Peer is:                 CTS Capable
  802.1X role:            CTS_ROLE_SUP
  Last Re-Authentication:
Authorization Status:     CTS_AUTHZ_SUCCESS
  PEER SGT:                2
  Peer SGT assignment:    Trusted
  Global policy fallback access list:
SAP Status:                CTS_SAP_SUCCESS
  Configured pairwise ciphers: GCM_ENCRYPT
  Replay protection:      Enabled
  Replay protection mode: Strict
  Selected cipher:        GCM_ENCRYPT
  Current receive SPI:    sci:1b54c1fc000000 an:0
  Current transmit SPI:   sci:1b54c1fbff0000 an:0
```

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This example shows how to display the Cisco TrustSec configuration for a specific interface:

```
switch# show cts interface ethernet 2/24
CTS Information for Interface Ethernet2/24:
  CTS is enabled, mode:      CTS_MODE_DOT1X
  IFC state:                 CTS_IFC_ST_CTS_OPEN_STATE
  Authentication Status:    CTS_AUTHC_SUCCESS
    Peer Identity:          indial
    Peer is:                 CTS Capable
    802.1X role:            CTS_ROLE_AUTH
    Last Re-Authentication:
  Authorization Status:     CTS_AUTHZ_SUCCESS
    PEER SGT:                2
    Peer SGT assignment:    Trusted
    Global policy fallback access list:
  SAP Status:                CTS_SAP_SUCCESS
    Configured pairwise ciphers: GCM_ENCRYPT
    Replay protection:      Enabled
    Replay protection mode:  Strict
    Selected cipher:        GCM_ENCRYPT
    Current receive SPI:    sci:1b54c1fbff0000 an:0
    Current transmit SPI:   sci:1b54c1fc000000 an:0
```

Table 1 provides information about the values displayed in the **show cts interface** command output.

Table 1 *show cts interface Command Output Values Descriptions*

Value	Description
Authentication Status Field	
CTS_AUTHC_INIT	The authentication engine is in initial state.
CTS_AUTHC_SUCCESS	The authentication is successful.
CTS_AUTHC_NO_RESPONSE	The Cisco Access Control Server (ACS) is cannot be reached. No response was received from the Cisco ACS.
CTS_AUTHC_UNAUTHORIZED	The authentication is in progress.
CTS_AUTHC_SKIPPED_CONFIG	The Cisco TrustSec configuration indicates that the device should skip the authentication process.
CTS_AUTHC_REJECT	The Cisco ACS rejected the authentication request.
Authorization Status Field	
CTS_AUTHZ_INIT	The authorization engine is in the initial state.
CTS_AUTHZ_SUCCESS	The authorization was successful.
CTS_AUTHZ_REJECT	The ACS rejected the authorization request.
CTS_AUTHZ_SKIPPED_CONFIG	The Cisco TrustSec configuration indicates that the device should skip the authorization process.
CTS_AUTHZ_POL_ACQ_FAILURE	The authorization policy acquisition failed.
CTS_AUTHZ_HW_FAILURE	The hardware authorization programming failed.
CTS_AUTHZ_RBACL_FAILURE	The security group access control groups (SGACLs) failed to download and install.
CTS_AUTHZ_INCOMPLETE	The authorization is in progress

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Table 1 *show cts interface Command Output Values Descriptions (continued)*

Value	Description
SAP Status Field	
CTS_SAP_INIT	The Security Association Protocol (SAP) negotiation is in the initial state.
CTS_SAP_SUCCESS	The SAP negotiation succeeded.
CTS_SAP_FAILURE	The SAP negotiation failed.
CTS_SAP_SKIPPED_CONFIG	The Cisco TrustSec configuration indicates that the device should skip the SAP negotiation.
CTS_SAP_REKEY	The SAP rekey is in progress.
CTS_SAP_INCOMPLETE	The SAP negotiation in progress.

Related Commands

Command	Description
feature cts	Enables the Cisco TrustSec feature.

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show cts pacs

To display the Cisco TrustSec protect access credentials (PACs) provisioned by EAP-FAST, use the **show cts pacs** command.

show cts pacs

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
vdc-admin
network-operator
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines To use this command, you must enable the Cisco TrustSec feature using the **feature cts** command. This command requires the Advanced Services license.

Examples This example shows how to display the Cisco TrustSec global configuration:

```
switch# show cts pacs
PAC Info :
=====
PAC Type           : unknown
AID                 : 74656d706f72617279
I-ID                : india1
AID Info            : ACS Info
Credential Lifetime : Thu Apr  3 00:36:04 2008

PAC Opaque          : 0002008300020004000974656d706f7261727900060070000101001d
6321a2a55fa81e05cd705c714bea116907503aab89490b07fcbb2bd455b8d873f21b5b6b403eb1d8
125897d93b94669745cfe1abb0baf01a00b77aacf0bda9fbaf7dc54528b782d8206a7751afdde42
1ff4a3db6a349c652fea81809fba4f30b1fffb7bfffaf9a6608
```

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Related Commands

Command	Description
feature cts	Enables the Cisco TrustSec feature.

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show cts role-based access-list

To display the global Cisco TrustSec security group access control list (SGACL) configuration, use the **show cts role-based access-list** command.

show cts role-based access-list [*list-name*]

Syntax Description	<i>list-name</i> (Optional) Specifies an SGACL name.
---------------------------	--

Defaults	None
-----------------	------

Command Modes	Any configuration mode
----------------------	------------------------

SupportedUserRoles	network-admin vdc-admin network-operator vdc-operator
---------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.
	4.2(1)	Added list name argument.

Usage Guidelines	To use this command, you must enable the Cisco TrustSec feature using the feature cts command. This command requires the Advanced Services license.
-------------------------	--

Examples This example shows how to display the Cisco TrustSec SGACL configuration:

```
switch# show cts role-based access-list
rbacl:test-3
    deny ip
rbacl:test-1
    deny ip
    deny icmp
    deny tcp src eq 1000 dest eq 2000
    deny udp src range 1000 2000
rbacl:test-2
    permit icmp
    permit igmp
    permit tcp src lt 2000
    permit udp dest gt 4000
```

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Related Commands

Command	Description
feature cts	Enables the Cisco TrustSec feature.

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show cts role-based enable

To display the Cisco TrustSec security group access control list (SGACL) enable status for VLANs and Virtual Routing and Forwarding instances (VRFs), use the **show cts role-based enable** command.

show cts role-based enable

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
vdc-admin
network-operator
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines To use this command, you must enable the Cisco TrustSec feature using the **feature cts** command. This command requires the Advanced Services license.

Examples This example shows how to display the Cisco TrustSec SGACL enforcement status:

```
switch# show cts role-based enable

vlan:1
vrf:1
vrf:3
```

Related Commands	Command	Description
	feature cts	Enables the Cisco TrustSec feature.

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show cts role-based policy

To display the global Cisco TrustSec security group access control list (SGACL) policies, use the **show cts role-based policy** command.

show cts role-based policy

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
vdc-admin
network-operator
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines To use this command, you must enable the Cisco TrustSec feature using the **feature cts** command. This command requires the Advanced Services license.

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Examples

This example shows how to display the Cisco TrustSec SGACL policies:

```
switch# show cts role-based policy

sgt:unknown
dgt:unknown      rbacl:test-2
    permit icmp
    permit igmp
    permit tcp src lt 2000
    permit udp dest gt 4000

sgt:1000
dgt:2000         rbacl:test-1
    deny ip
    deny icmp
    deny tcp src eq 1000 dest eq 2000
    deny udp src range 1000 2000

sgt:any
dgt:any         rbacl:test-3
    deny ip
```

Related Commands

Command	Description
<code>feature cts</code>	Enables the Cisco TrustSec feature.

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show cts role-based sgt-map

To display the global Cisco TrustSec Security Group Tag (SGT) mapping configuration, use the **show cts role-based sgt-map** command.

show cts role-based sgt-map

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
vdc-admin
network-operator
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines To use this command, you must enable the Cisco TrustSec feature using the **feature cts** command. This command requires the Advanced Services license.

Examples This example shows how to display the Cisco TrustSec SGT mapping configuration:

```
switch# show cts role-based sgt-map
IP ADDRESS          SGT          VRF/VLAN      SGT CONFIGURATION
5.5.5.5              5            vlan:10       CLI Configured
5.5.5.6              6            vlan:10       CLI Configured
5.5.5.7              7            vlan:10       CLI Configured
5.5.5.8              8            vlan:10       CLI Configured
10.10.10.10          10           vrf:3         CLI Configured
10.10.10.20          20           vrf:3         CLI Configured
10.10.10.30          30           vrf:3         CLI Configured
```

Related Commands	Command	Description
	feature cts	Enables the Cisco TrustSec feature.

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show cts sxp

To display the Cisco TrustSec Security Group Tag (SGT) Exchange Protocol (SXP) configuration, use the **show cts sxp** command.

show cts sxp

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
vdc-admin
network-operator
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines To use this command, you must enable the Cisco TrustSec feature using the **feature cts** command. This command requires the Advanced Services license.

Examples This example shows how to display the Cisco TrustSec SXP configuration:

```
switch# show cts sxp
CTS SXP Configuration:
SXP enabled
SXP retry timeout:60
SXP reconcile timeout:120
```

Related Commands	Command	Description
	feature cts	Enables the Cisco TrustSec feature.

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show cts sxp connection

To display the Cisco TrustSec Security Group Tag (SGT) Exchange Protocol (SXP) connections information, use the **show cts sxp connection** command.

show cts sxp connection

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
vdc-admin
network-operator
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines To use this command, you must enable the Cisco TrustSec feature using the **feature cts** command. This command requires the Advanced Services license.

Examples This example shows how to display the Cisco TrustSec Security Group Tag (SGT) Exchange Protocol (SXP) connections information:

```
switch# show cts sxp connection
PEER_IP_ADDR    VRF          PEER_SXP_MODE  SELF_SXP_MODE  CONNECTION STATE
10.10.3.3       default      listener        speaker         initializing
```

Related Commands	Command	Description
	feature cts	Enables the Cisco TrustSec feature.

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show dot1x

To display the 802.1X feature status, use the **show dot1x** command.

```
show dot1x
```

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines You must enable the 802.1X feature by using the **feature dot1x** command before using this command. This command does not require a license.

Examples This example shows how to display the 802.1X feature status:

```
switch# show dot1x
      Sysauthcontrol Enabled
      Dot1x Protocol Version 2
```

Related Commands	Command	Description
	feature dot1x	Enables the 802.1X feature.

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show dot1x all

To display all 802.1X feature status and configuration information, use the **show dot1x all** command.

show dot1x all [**details** | **statistics** | **summary**]

Syntax Description		
	details	(Optional) Displays detailed information about the 802.1X configuration.
	statistics	(Optional) Displays 802.1X statistics.
	summary	(Optional) Displays a summary of 802.1X information.

Defaults Displays global and interface 802.1X configuration

Command Modes Any command mode

SupportedUserRoles network-admin
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines You must enable the 802.1X feature by using the **feature dot1x** command before using this command.
This command does not require a license.

Send document comments to nexus7k-docfeedback@cisco.com**Examples**

This example shows how to display all 802.1X feature status and configuration information:

```
switch# show dot1x all
      Sysauthcontrol Enabled
      Dot1x Protocol Version 2

Dot1x Info for Ethernet2/1
-----
          PAE = AUTHENTICATOR
      PortControl = FORCE_AUTH
          HostMode = SINGLE HOST
ReAuthentication = Disabled
      QuietPeriod = 60
      ServerTimeout = 30
      SuppTimeout = 30
      ReAuthPeriod = 3600 (Locally configured)
      ReAuthMax = 2
          MaxReq = 2
          TxPeriod = 30
      RateLimitPeriod = 0
```

Related Commands

Command	Description
feature dot1x	Enables the 802.1X feature.

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show dot1x interface ethernet

To display the 802.1X feature status and configuration information for an Ethernet interface, use the **show dot1x interface ethernet** command.

show dot1x interface ethernet *slot/port* [**details** | **statistics** | **summary**]

Syntax Description		
	<i>slot/port</i>	Slot and port identifiers for the interface.
	details	(Optional) Displays detailed 802.1X information for the interface.
	statistics	(Optional) Displays 802.1X statistics for the interface.
	summary	(Optional) Displays a summary of the 802.1X information for the interface.

Defaults Displays the interface 802.1X configuration

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines You must enable the 802.1X feature by using the **feature dot1x** command before using this command. This command does not require a license.

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Examples

This example shows how to display the 802.1X feature status and configuration information for an Ethernet interface:

```
switch# show dot1x interface ethernet 2/1

Dot1x Info for Ethernet2/1
-----
                PAE = AUTHENTICATOR
                PortControl = FORCE_AUTH
                HostMode = SINGLE HOST
ReAuthentication = Disabled
                QuietPeriod = 60
                ServerTimeout = 30
                SuppTimeout = 30
                ReAuthPeriod = 3600 (Locally configured)
                ReAuthMax = 2
                MaxReq = 2
                TxPeriod = 30
                RateLimitPeriod = 0
```

Related Commands

Command	Description
feature dot1x	Enables the 802.1X feature.

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show eou

To display Extensible Authentication Protocol over User Datagram Protocol (EAPoUDP) status and configuration information, use the **show eou** command.

```
show eou [all | authentication { clientless | eap | static } | interface ethernet slot/port | ip-address
ipv4-address | mac-address mac-address | posturetoken [name]]
```

Syntax Description		
all	(Optional)	Displays all EAPoUDP sessions.
authentication	(Optional)	Displays EAPoUDP sessions for specific authentication types.
clientless		Specifies sessions authenticated using clientless posture validation.
eap		Specifies sessions authenticated using EAPoUDP.
static		Specifies sessions statically authenticated using statically configured exception lists.
interface ethernet <i>slot/port</i>	(Optional)	Displays the EAPoUDP sessions for a specific interface.
ip-address <i>ipv4-address</i>	(Optional)	Displays the EAPoUDP sessions for a specific IPv4 address.
mac-address <i>mac-address</i>	(Optional)	Displays the EAPoUDP sessions for a specific MAC address.
posturetoken [<i>name</i>]	(Optional)	Displays the EAPoUDP sessions for posture tokens.
<i>name</i>	(Optional)	Token name.

Defaults Displays the global EAPoUDP configuration

Command Modes Any command mode

Supported User Roles network-admin
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines You must enable the 802.1X feature by using the **feature eou** command before using this command. This command does not require a license.

Examples This example shows how to display all 802.1X feature status and configuration information:

```
switch# show eou all
```

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This example shows how to display 802.1X clientless authentication information:

```
switch# show eou authentication clientless
```

This example shows how to display 802.1X EAP authentication information:

```
switch# show eou authentication eap
```

This example shows how to display 802.1X static authentication information:

```
switch# show eou interface ethernet 2/1
```

This example shows how to display 802.1X information for an Ethernet interface:

```
switch# show eou ip-address 10.10.10.1
```

This example shows how to display 802.1X information for a MAC address:

```
switch# show eou mac-address 0019.076c.dac4
```

This example shows how to display 802.1X information for a MAC address:

```
switch# show eou posturetoken healthy
```

Related Commands

Command	Description
<code>feature eou</code>	Enables the 802.1X feature.

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show hardware access-list resource pooling

To display information about which I/O modules are configured with the **hardware access-list resource pooling** command, use the **show hardware access-list resource pooling** command.

show hardware access-list resource pooling

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
vdc-admin
vdc-operator

Command History	Release	Modification
	4.2(1)	This command was introduced.

Usage Guidelines This command does not require a license.

If no I/O modules are configured with the **hardware access-list resource pooling** command, the **show hardware access-list resource pooling** command has no output.

Examples This example shows how to display the I/O modules that are configured with the **hardware access-list resource pooling** command:

```
switch# show hardware access-list resource pooling
  Module 1 enabled
  Module 3 enabled

switch#
```

Related Commands	Command	Description
	hardware access-list resource pooling	Allows ACL-based features to use more than one TCAM bank on one or more I/O modules.
	show hardware access-list status	Shows the status of ACL-related I/O-module features for a specific I/O module.

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show hardware access-list status

To display information about the status of access-control list (ACL)-related I/O-module features, use the `show hardware access-list status` command.

```
show hardware access-list status {module slot-number}
```

Syntax Description	module slot-number	Specifies the I/O module by its slot number.
--------------------	--------------------	--

Defaults	None
----------	------

Command Modes	Any command mode
---------------	------------------

Supported User Roles	network-admin vdc-admin vdc-operator
----------------------	--

Command History	Release	Modification
	4.2(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
------------------	--

Examples	This example shows how to display the status of ACL-related features on the I/O module in slot 1:
----------	---

```
switch# show hardware access-list status module 1
```

```
Non-Atomic ACL updates Disabled.
```

```
TCAM Default Result is Deny.
```

```
Resource-pooling: Enabled
```

```
switch#
```

Related Commands	Command	Description
	<code>hardware access-list resource pooling</code>	Allows ACL-based features to use more than one TCAM bank on one or more I/O modules.

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Command	Description
hardware access-list update	Configures how a supervisor module updates an I/O module with changes to an ACL.
show hardware access-list resource pooling	Shows which I/O modules are configured with the hardware access-list resource pooling command.

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show hardware rate-limiter

To display rate limit configuration and statistics, use the **show hardware rate-limiter** command.

```
show rate-limiter [access-list-log | copy | layer-2 {mcast-snooping | port-security |
storm-control | vpc-low} | layer-3 {control | glean | mtu | multicast {directly-connected |
local-groups | rpf-leak} | ttl} | module module | receive]
```

Syntax	Description
access-list-log	(Optional) Displays rate-limit statistics for access-list log packets.
copy	(Optional) Displays rate-limit statistics for copy packets.
layer-2	(Optional) Displays Layer 2 packet rate limits.
mcast-snooping	Specifies rate-limit statistics for Layer 2 multicast-snooping packets.
port-security	Specifies rate-limit statistics for Layer 2 port-security packets.
storm-control	Specifies rate-limit statistics for Layer 2 storm-control packets.
vpc-low	Specifies rate-limit statistics for Layer 2 control packets over the VPC low queue.
layer-3	Specifies Layer 3 packet rate limits.
control	(Optional) Displays rate-limit statistics for Layer 3 control packets.
glean	(Optional) Displays rate-limit statistics for Layer 3 glean packets.
mtu	(Optional) Displays rate-limit statistics for Layer 3 maximum transmission unit (MTU) packets.
multicast	(Optional) Displays Layer 3 multicast rate limits.
directly-connected	Specifies rate-limit statistics for Layer 3 directly connected multicast packets.
local-groups	Specifies rate-limit statistics for Layer 3 local group multicast packets.
rpf-leak	Specifies rate-limit statistics for Layer 3 reverse path forwarding (RPF) leak multicast packets.
ttl	(Optional) Displays rate-limit statistics for Layer 3 time-to-live (TTL) packets.
module <i>module</i>	(Optional) Displays rate-limit statistics for a specific module. The module number is from 1 to 18.
receive	(Optional) Displays rate-limit statistics for receive packets.

Defaults Displays all rate-limit statistics.

Command Modes Any command mode

SupportedUserRoles network-admin

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Command History	Release	Modification
	4.0(3)	Added the port-security keyword.
	4.0(1)	This command was introduced.

Usage Guidelines

You can use the command only in the default virtual device context (VDC).

This command does not require a license.

Examples

This example shows how to display all the rate-limit configuration and statistics:

```
switch# show hardware rate-limiter
```

```
Units for Config: packets per second
```

```
Allowed, Dropped & Total: aggregated since last clear counters
```

Rate Limiter Class	Parameters
layer-3 mtu	Config : 500 Allowed : 0 Dropped : 0 Total : 0
layer-3 ttl	Config : 500 Allowed : 0 Dropped : 0 Total : 0
layer-3 control	Config : 10000 Allowed : 0 Dropped : 0 Total : 0
layer-3 glean	Config : 100 Allowed : 0 Dropped : 0 Total : 0
layer-3 multicast directly-connected	Config : 3000 Allowed : 0 Dropped : 0 Total : 0
layer-3 multicast local-groups	Config : 3000 Allowed : 0 Dropped : 0 Total : 0
...	

Related Commands

Command	Description
clear hardware rate-limiter	Clears rate-limit statistics.
hardware rate-limiter	Configures rate limits.

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show identity policy

To display the identity policies, use the **show identity policy** command.

```
show identity policy [policy-name]
```

Syntax Description	<i>policy-name</i> (Optional) Name of a policy. The name is case sensitive.				
Defaults	Displays information for all identity policies.				
Command Modes	Any command mode				
SupportedUserRoles	network-admin vdc-admin VDC user				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.0(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.0(1)	This command was introduced.
Release	Modification				
4.0(1)	This command was introduced.				
Usage Guidelines	This command does not require a license.				
Examples	<p>This example shows how to display information for all of the identity policies:</p> <pre>switch# show identity policy</pre> <p>This example shows how to display information for a specific identity policy:</p> <pre>switch# show identity policy AdminPolicy</pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>identity policy</td> <td>Configures identity policies.</td> </tr> </tbody> </table>	Command	Description	identity policy	Configures identity policies.
Command	Description				
identity policy	Configures identity policies.				

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show identity profile

To display the identity profiles, use the **show identity profile** command.

show identity profile [**eapoudp**]

Syntax Description	eapoudp	(Optional) Displays the Extensible Authentication Protocol over User Datagram Protocol (EAPoUDP) identity profile.
---------------------------	----------------	--

Defaults Displays information for all identity profiles.

Command Modes Any command mode

SupportedUserRoles network-admin
vdc-admin
VDC user

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the identity profiles:

```
switch# show identity profile
```

This example shows how to display the EAPoUDP identity profile configuration:

```
switch# show identity profile eapoudp
```

Related Commands	Command	Description
	identity profile eapoudp	Configures EAPoUDP identity profiles.

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show ip access-lists

To display all IPv4 access control lists (ACLs) or a specific IPv4 ACL, use the **show ip access-lists** command.

show ip access-lists [*access-list-name*] [**expanded** | **summary**]

Syntax Description	
<i>access-list-name</i>	(Optional) Name of an IPv4 ACL, which can be up to 64 alphanumeric, case-sensitive characters.
expanded	(Optional) Specifies that the contents of IPv4 address groups or port groups show rather than the names of object groups only.
summary	(Optional) Specifies that the command displays information about the ACL rather than the ACL configuration. For more information, see the “Usage Guidelines” section.

Defaults None

Command Modes Any command mode

Supported User Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.2(1)	Command output is sorted alphabetically by the ACL names. Support was added for the fragments command.
	4.0(1)	This command was introduced.

Usage Guidelines

The device shows all IPv4 ACLs, unless you use the *access-list-name* argument to specify an ACL. If you do not specify an ACL name, the device lists ACLs alphabetically by the ACL names. IPv4 address object groups and IP port object groups show only by name, unless you use the **expanded** keyword.

The **expanded** keyword allows you to display the details of object groups used in an ACL rather than only the name of the object groups. For more information about object groups, see the **object-group ip address** and **object-group ip port** commands.

The **summary** keyword allows you to display information about the ACL rather than the ACL configuration. The information displayed includes the following:

- Whether per-entry statistics are configured for the ACL.

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- Whether the **fragments** command is configured for the ACL.
- The number of rules in the ACL configuration. This number does not reflect how many entries that the ACL contains when the device applies it to an interface. If a rule in the ACL uses an object group, the number of entries in the ACL when it is applied may be much greater than the number of rules.
- The interfaces that the ACL is applied to.
- The interfaces that the ACL is active on.

The **show ip access-lists** command displays statistics for each entry in an ACL if the following conditions are both true:

- The ACL configuration contains the **statistics per-entry** command.
- The ACL is applied to an interface that is administratively up.

If an IP ACL includes the **fragments** command, it appears before the explicit permit and deny rules, but the device applies the **fragments** command to noninitial fragments only if they do not match all other explicit rules in the ACL.

This command does not require a license.

Examples

This example shows how to use the **show ip access-lists** command to display all IPv4 ACLs on a device that has a single IPv4 ACL:

```
switch# show ip access-lists

IP access list ipv4-open-filter
    10 permit ip any any
```

This example shows how to use the **show ip access-lists** command to display an IPv4 ACL named **ipv4-RandD-outbound-web**, including per-entry statistics for the entries except for the MainLab object group:

```
switch# show ip access-lists ipv4-RandD-outbound-web

IP access list ipv4-RandD-outbound-web
    statistics per-entry
    fragments deny-all
    1000 permit ahp any any [match=732]
    1005 permit tcp addrgroup MainLab any eq telnet
    1010 permit tcp any any eq www [match=820421]
```

This example shows how to use the **show ip access-lists** command to display an IPv4 ACL named **ipv4-RandD-outbound-web**. The **expanded** keyword causes the contents of the object group from the previous example to appear, including the per-entry statistics:

```
switch# show ip access-lists ipv4-RandD-outbound-web expanded

IP access list ipv4-RandD-outbound-web
    statistics per-entry
    1000 permit ahp any any [match=732]
    1005 permit tcp 10.52.34.4/32 any eq telnet [match=5032]
    1005 permit tcp 10.52.34.27/32 any eq telnet [match=433]
    1010 permit tcp any any eq www [match=820421]
```

This example shows how to use the **show ip access-lists** command with the **summary** keyword to display information about an IPv4 ACL named **ipv4-RandD-outbound-web**, such as which interfaces the ACL is applied to and active on:

```
switch# show ip access-lists ipv4-RandD-outbound-web summary
IPV4 ACL ipv4-RandD-outbound-web
```


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```
Statistics enabled
Total ACEs Configured: 4
Configured on interfaces:
    Ethernet2/4 - ingress (Router ACL)
Active on interfaces:
    Ethernet2/4 - ingress (Router ACL)
```

Related Commands

Command	Description
fragments	Configures how an IP ACL processes noninitial fragments.
ip access-list	Configures an IPv4 ACL.
show access-lists	Displays all ACLs or a specific ACL.
show mac access-lists	Displays all MAC ACLs or a specific MAC ACL.
statistics per-entry	Starts recording statistics for packets permitted or denied by each entry in an ACL.

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show ip arp inspection

To display the Dynamic ARP Inspection (DAI) configuration status, use the **show ip arp inspection** command.

show ip arp inspection

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

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Examples

This example shows how to display the status of the DAI configuration:

```
switch# show ip arp inspection

Source Mac Validation      : Enabled
Destination Mac Validation : Enabled
IP Address Validation      : Enabled

Vlan : 1
-----
Configuration      : Enabled
Operation State    : Active

ARP Req Forwarded = 0
ARP Res Forwarded = 0
ARP Req Dropped   = 0
ARP Res Dropped   = 0
DHCP Drops        = 0
DHCP Permits      = 0
SMAC Fails-ARP Req = 0
SMAC Fails-ARP Res = 0
DMAC Fails-ARP Res = 0
IP Fails-ARP Req   = 0
IP Fails-ARP Res   = 0
```

Related Commands

Command	Description
ip arp inspection vlan	Enables DAI for a specified list of VLANs.
show ip arp inspection interface	Displays the trust state and the ARP packet rate for a specified interface.
show ip arp inspection log	Displays the DAI log configuration.
show ip arp inspection statistics	Displays the DAI statistics.
show ip arp inspection vlan	Displays DAI status for a specified list of VLANs.
show running-config dhcp	Displays DHCP snooping configuration, including DAI configuration.

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show ip arp inspection interface

To display the trust state for the specified interface, use the **show ip arp inspection interface** command.

```
show ip arp inspection interface {ethernet slot/port | port-channel channel-number}
```

Syntax Description	
ethernet slot/port	(Optional) Specifies that the output is for an Ethernet interface.
port-channel channel-number	(Optional) Specifies that the output is for a port-channel interface. Valid port-channel numbers are from 1 to 4096.

Defaults	None
----------	------

Command Modes	Any command mode
---------------	------------------

SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
--------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
------------------	--

Examples	This example shows how to display the trust state for a trusted interface:
----------	--

```
switch# show ip arp inspection interface ethernet 2/1

Interface      Trust State
-----      -
Ethernet2/46   Trusted
switch#
```

Related Commands	Command	Description
	ip arp inspection vlan	Enables Dynamic ARP Inspection (DAI) for a specified list of VLANs.
	show ip arp inspection	Displays the DAI configuration status.
	show ip arp inspection log	Displays the DAI log configuration.
	show ip arp inspection statistics	Displays the DAI statistics.

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Command	Description
show ip arp inspection vlan	Displays DAI status for a specified list of VLANs.
show running-config dhcp	Displays DHCP snooping configuration, including DAI configuration.

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show ip arp inspection log

To display the Dynamic ARP Inspection (DAI) log configuration, use the **show ip arp inspection log** command.

show ip arp inspection log

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the DAI log configuration:

```
switch# show ip arp inspection log

Syslog Buffer Size : 32
Syslog Rate       : 5 entries per 1 seconds
switch#
```

Related Commands	Command	Description
	clear ip arp inspection log	Clears the DAI logging buffer.
	ip arp inspection log-buffer	Configures the DAI logging buffer size.
	show ip arp inspection	Displays the DAI configuration status.
	show ip arp inspection interface	Displays the trust state and the ARP packet rate for a specified interface.
	show running-config dhcp	Displays DHCP snooping configuration, including DAI configuration.

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show ip arp inspection statistics

Use the **show ip arp inspection statistics** command to display the Dynamic ARP Inspection (DAI) statistics. You can specify a VLAN or range of VLANs.

show ip arp inspection statistics [**vlan** *vlan-list*]

Syntax Description	vlan <i>vlan-list</i>	(Optional) Specifies the list of VLANs for which to display DAI statistics. Valid VLAN IDs are from 1 to 4096.
---------------------------	------------------------------	--

Defaults	None
-----------------	------

Command Modes	Any command mode
----------------------	------------------

Supported User Roles	network-admin network-operator vdc-admin vdc-operator
-----------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
-------------------------	--

Examples This example shows how to display the DAI statistics for VLAN 1:

```
switch# show ip arp inspection statistics vlan 1

Vlan : 1
-----
ARP Req Forwarded = 0
ARP Res Forwarded = 0
ARP Req Dropped   = 0
ARP Res Dropped   = 0
DHCP Drops        = 0
DHCP Permits      = 0
SMAC Fails-ARP Req = 0
SMAC Fails-ARP Res = 0
DMAC Fails-ARP Res = 0
IP Fails-ARP Req   = 0
IP Fails-ARP Res   = 0
switch#
```

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Related Commands	Command	Description
	clear ip arp inspection statistics vlan	Clears the DAI statistics for a specified VLAN.
	show ip arp inspection	Displays the DAI configuration status.
	show ip arp inspection interface	Displays the trust state and the ARP packet rate for a specified interface.
	show ip arp inspection log	Displays the DAI log configuration.
	show running-config dhcp	Displays DHCP snooping configuration, including DAI configuration.

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show ip arp inspection vlan

Use the **show ip arp inspection vlan** command to display Dynamic ARP Inspection (DAI) status for the specified list of VLANs.

show ip arp inspection vlan *vlan-list*

Syntax Description	<i>vlan-list</i>	VLANs with DAI status that this command shows. The <i>vlan-list</i> argument allows you to specify a single VLAN ID, a range of VLAN IDs, or comma-separated IDs and ranges (see the “Examples” section). Valid VLAN IDs are from 1 to 4096.
---------------------------	------------------	--

Defaults	None
-----------------	------

Command Modes	Any command mode
----------------------	------------------

SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
---------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Examples This example shows how to display DAI status for VLANs 1 and 13:

```
switch# show ip arp inspection vlan 1,13

Source Mac Validation      : Enabled
Destination Mac Validation : Enabled
IP Address Validation      : Enabled

Vlan : 1
-----
Configuration      : Enabled
Operation State    : Active

Vlan : 13
-----
Configuration      : Enabled
Operation State    : Inactive
switch#
```

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Related Commands

Command	Description
clear ip arp inspection statistics vlan	Clears the DAI statistics for a specified VLAN.
ip arp inspection vlan	Enables DAI for a specified list of VLANs.
show ip arp inspection	Displays the DAI configuration status.
show ip arp inspection interface	Displays the trust state and the ARP packet rate for a specified interface.
show running-config dhcp	Displays DHCP snooping configuration, including DAI configuration.

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show ip device tracking

To display IP device tracking information, use the **show ip device tracking** command.

```
show ip device tracking {all | interface ethernet slot/port | ip-address ipv4-address | mac-address
mac-address}
```

Syntax Description		
all		Displays all IP device tracking information.
interface ethernet slot/port		Displays IP tracking device information for an interface.
ip-address ipv4-address		Displays IP tracking device information for an IPv4 address in the A.B.C.D format.
mac-address mac-address		Displays IP tracking information for a MAC address in the XXXX.XXXX.XXXX format.

Defaults None

Command Modes Any command mode

Supported User Roles network-admin
vdc-admin
VDC user

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display all IP device tracking information:

```
switch# show ip device tracking all
```

This example shows how to display the IP device tracking information for an interface:

```
switch# show ip device tracking ethernet 1/2
```

This example shows how to display the IP device tracking information for an IP address:

```
switch# show ip device tracking ip-address 10.10.1.1
```

This example shows how to display the IP device tracking information for a MAC address:

```
switch# show ip device tracking mac-address 0018.bad8.3fbd
```

■ show ip device tracking

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Related Commands	Command	Description
	ip device tracking	Configures IP device tracking.

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show ip dhcp relay address

To display DHCP snooping relay addresses configured on the device, use the **show ip dhcp relay address** command.

show ip dhcp relay address

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.2(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the DHCP relay addresses configured on a device:

```
switch# show ip dhcp relay address

Interface          Relay Address
-----
Ethernet1/4        10.34.197.17
switch#
```

Related Commands	Command	Description
	feature dhcp	Enables the DHCP snooping feature on the device.
	ip dhcp relay	Enables the DHCP relay agent.

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show ip dhcp snooping

To display general status information for DHCP snooping, use the **show ip dhcp snooping** command.

show ip dhcp snooping

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display general status information about DHCP snooping:

```
switch# show ip dhcp snooping
DHCP snooping service is enabled
Switch DHCP snooping is enabled
DHCP snooping is configured on the following VLANs:
1,13
DHCP snooping is operational on the following VLANs:
1
Insertion of Option 82 is disabled
Verification of MAC address is enabled
DHCP snooping trust is configured on the following interfaces:
Interface           Trusted
-----
Ethernet2/3         Yes

switch#
```

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Related Commands	Command	Description
	feature dhcp	Enables the DHCP snooping feature on the device.
	ip dhcp snooping	Globally enables DHCP snooping on the device.
	show ip dhcp snooping binding	Displays IP-MAC address bindings, including the static IP source entries.
	show ip dhcp snooping statistics	Displays DHCP snooping statistics.
	show running-config dhcp	Displays DHCP snooping configuration.

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show ip dhcp snooping binding

To display IP-to-MAC address bindings for all interfaces or a specific interface, use the **show ip dhcp snooping binding** command. It includes static IP source entries. Static entries appear with the term “static” in the Type column.

```
show ip dhcp snooping binding [IP-address] [MAC-address] [interface ethernet slot/port]
                               [vlan vlan-id]
```

```
show ip dhcp snooping binding [dynamic]
```

```
show ip dhcp snooping binding [static]
```

Syntax Description		
<i>IP-address</i>	(Optional) IPv4 address that the bindings shown must include. Valid entries are in dotted-decimal format.	
<i>MAC-address</i>	(Optional) MAC address that the bindings shown must include. Valid entries are in dotted-hexadecimal format.	
interface ethernet <i>slot/port</i>	(Optional) Specifies the Ethernet interface that the bindings shown must be associated with.	
vlan <i>vlan-id</i>	(Optional) Specifies a VLAN ID that the bindings shown must be associated with. Valid VLAN IDs are from 1 to 4096.	
dynamic	(Optional) Limits the output to all dynamic IP-MAC address bindings.	
static	(Optional) Limits the output to all static IP-MAC address bindings.	

Defaults	
None	

Command Modes	
Any command mode	

SupportedUserRoles	
network-admin	
network-operator	
vdc-admin	
vdc-operator	

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	
This command does not require a license.	

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Examples

This example shows how to show all bindings:

```
switch# show ip dhcp snooping binding
MacAddress      IPAddress      LeaseSec  Type      VLAN  Interface
-----
0f:00:60:b3:23:33  10.3.2.2      infinite  static    13    Ethernet2/46
0f:00:60:b3:23:35  10.2.2.2      infinite  static    100   Ethernet2/10
switch#
```

Related Commands

Command	Description
clear ip dhcp snooping binding	Clears the DHCP snooping binding database.
feature dhcp	Enables the DHCP snooping feature on the device.
ip dhcp relay	Enables or disables the DHCP relay agent.
ip dhcp snooping	Globally enables DHCP snooping on the device.
show ip dhcp snooping	Displays general information about DHCP snooping.
show ip dhcp snooping statistics	Displays DHCP snooping statistics.
show running-config dhcp	Displays DHCP snooping configuration, including IP Source Guard configuration.

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show ip dhcp snooping statistics

To display DHCP snooping statistics, use the **show ip dhcp snooping statistics** command.

show ip dhcp snooping statistics

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display DHCP snooping statistics:

```
switch# show ip dhcp snooping statistics
Packets processed 0
Packets forwarded 0
Total packets dropped 0
Packets dropped from untrusted ports 0
Packets dropped due to MAC address check failure 0
Packets dropped due to Option 82 insertion failure 0
Packets dropped due to o/p intf unknown 0
Packets dropped which were unknown 0
switch#
```

Related Commands	Command	Description
	feature dhcp	Enables the DHCP snooping feature on the device.
	ip dhcp snooping	Globally enables DHCP snooping on the device.
	service dhcp	Enables or disables the DHCP relay agent.
	show ip dhcp snooping	Displays general information about DHCP snooping.

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Command	Description
show ip dhcp snooping binding	Displays IP-MAC address bindings, including the static IP source entries.
show running-config dhcp	Displays DHCP snooping configuration.

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show ip verify source

To display the IP-to-MAC address bindings, use the **show ip verify source** command.

```
show ip verify source [interface {ethernet slot/port | port-channel channel-number}]
```

Syntax Description	Parameter	Description
	interface	(Optional) Specifies that the output is limited to IP-to-MAC address bindings for a particular interface.
	ethernet <i>slot/port</i>	(Optional) Specifies that the output is limited to bindings for the Ethernet interface given.
	port-channel <i>channel-number</i>	(Optional) Specifies that the output is limited to bindings for the port-channel interface given. Valid port-channel numbers are from 1 to 4096.

Defaults None

Command Modes Any command mode

Supported User Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the IP-to-MAC address bindings:

```
switch# show ip verify source
switch#
```

Related Commands	Command	Description
	ip source binding	Creates a static IP source entry for the specified Ethernet interface.
	ip verify source dhcp-snooping-vlan	Enables IP Source Guard on an interface.
	show running-config dhcp	Displays DHCP snooping configuration, including IP Source Guard configuration.

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show ipv6 access-lists

To display all IPv6 access-control lists (ACLs) or a specific IPv6 ACL, use the **show ipv6 access-lists** command.

```
show ipv6 access-lists [access-list-name] [expanded | summary]
```

Syntax Description	
<i>access-list-name</i>	(Optional) Name of an IPv6 ACL, which can be up to 64 alphanumeric, case-sensitive characters.
expanded	(Optional) Specifies that the contents of IPv6 address groups or port groups show rather than the names of object groups only.
summary	(Optional) Specifies that the command displays information about the ACL rather than the ACL configuration. For more information, see the “Usage Guidelines” section.

Defaults None

Command Modes Any command mode

Supported User Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.2(1)	Command output is sorted alphabetically by the ACL names. Support was added for the fragments command.
	4.1(2)	This command was introduced.

Usage Guidelines

The device shows all IPv6 ACLs, unless you use the *access-list-name* argument to specify an ACL. If you do not specify an ACL name, the device lists ACLs alphabetically by the ACL names. IPv6 address object groups and IP port object groups show only by name, unless you use the **expanded** keyword.

The **expanded** keyword allows you to display the details of object groups used in an ACL rather than only the name of the object groups. For more information about object groups, see the **object-group ipv6 address** and **object-group ip port** commands.

The **summary** keyword allows you to display information about the ACL rather than the ACL configuration. The information displayed includes the following:

- Whether per-entry statistics are configured for the ACL.

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- Whether the **fragments** command is configured for the ACL.
- The number of rules in the ACL configuration. This number does not reflect how many entries that the ACL contains when the device applies it to an interface. If a rule in the ACL uses an object group, the number of entries in the ACL when it is applied may be much greater than the number of rules.
- The interfaces that the ACL is applied to.
- The interfaces that the ACL is active on.

The **show ipv6 access-lists** command displays statistics for each entry in an ACL if the following conditions are both true:

- The ACL configuration contains the **statistics per-entry** command.
- The ACL is applied to an interface that is administratively up.

If an IP ACL includes the **fragments** command, it appears before the explicit permit and deny rules, but the device applies the **fragments** command to noninitial fragments only if they do not match all other explicit rules in the ACL.

This command does not require a license.

Examples

This example shows how to use the **show ipv6 access-lists** command to display all IPv6 ACLs on a device that has a single IPv6 ACL:

```
switch# show ipv6 access-lists

IPv6 access list ipv6-main-filter
    10 permit ipv6 any any
```

This example shows how to use the **show ipv6 access-lists** command to display an IPv6 ACL named **ipv6-RandD-outbound-web**, including per-entry statistics for the entries except for the LowerLab object group:

```
switch# show ipv6 access-lists ipv6-RandD-outbound-web

IPv6 access list ipv6-RandD-outbound-web
    statistics per-entry
    fragments deny-all
    1000 permit ahp any any [match=732]
    1005 permit tcp addrgroup LowerLab any eq telnet
    1010 permit tcp any any eq www [match=820421]
```

This example shows how to use the **show ipv6 access-lists** command to display an IPv6 ACL named **ipv6-RandD-outbound-web**. The **expanded** keyword causes the contents of the object group from the previous example to appear, including the per-entry statistics:

```
switch# show ipv6 access-lists ipv6-RandD-outbound-web expanded

IPv6 access list ipv6-RandD-outbound-web
    statistics per-entry
    1000 permit ahp any any [match=732]
    1005 permit tcp 2001:db8:0:3ab0::1/128 any eq telnet [match=5032]
    1005 permit tcp 2001:db8:0:3ab0::32/128 any eq telnet [match=433]
    1010 permit tcp any any eq www [match=820421]
```

This example shows how to use the **show ipv6 access-lists** command with the **summary** keyword to display information about an IPv6 ACL named **ipv6-RandD-outbound-web**, such as which interfaces the ACL is applied to and active on:

```
switch# show ipv6 access-lists ipv6-RandD-outbound-web summary
IPV6 ACL ipv6-RandD-outbound-web
```

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```
Statistics enabled
Total ACEs Configured: 4
Configured on interfaces:
    Ethernet2/4 - ingress (Router ACL)
Active on interfaces:
    Ethernet2/4 - ingress (Router ACL)
```

Related Commands

Command	Description
fragments	Configures how an IP ACL processes noninitial fragments.
ipv6 access-list	Configures an IPv6 ACL.
show access-lists	Displays all ACLs or a specific ACL.
show ip access-lists	Displays all IPv4 ACLs or a specific IPv4 ACL.
show mac access-lists	Displays all MAC ACLs or a specific MAC ACL.
statistics per-entry	Starts recording statistics for packets permitted or denied by each entry in an ACL.

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show key chain

To display the configuration for a specific keychain, use the **show keychain** command.

```
show key chain keychain-name [mode decrypt]
```

Syntax Description	
<i>keychain-name</i>	Name of the keychain to configure, up to 63 alphanumeric characters.
mode decrypt	(Optional) Shows the key text configuration in cleartext. This option is available only when access the device with a user account that is assigned a network-admin or vdc-admin user role.

Defaults	None
----------	------

Command Modes	Any command mode
---------------	------------------

SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
--------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
------------------	--

Examples	This example shows how to display keychain configuration for the keychain glbp-key, which contains one key (key 13) which has specific accept and send lifetimes:
----------	---

```
switch# show key chain
Key-Chain glbp-keys
  Key 13 -- text 7 071a33595c1d0c1702170203163e3e21213c20361a021f11
    accept lifetime UTC (00:00:00 Jun 13 2008) - (23:59:59 Sep 12 2008)
    send lifetime UTC (00:00:00 Jun 13 2008) - (23:59:59 Aug 12 2008)
```

Related Commands	Command	Description
	accept-lifetime	Configures an accept lifetime for a key.
	key	Configures a key.
	key chain	Configures a keychain.

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Command	Description
key-string	Configures a key string.
send-lifetime	Configures a send lifetime for a key.

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show mac access-lists

To display all MAC access control lists (ACLs) or a specific MAC ACL, use the **show mac access-lists** command.

```
show mac access-lists [access-list-name] [summary]
```

Syntax Description	
<i>access-list-name</i>	(Optional) Name of a MAC ACL, which can be up to 64 alphanumeric, case-sensitive characters.
summary	(Optional) Specifies that the command displays information about the ACL rather than the ACL configuration. For more information, see the “Usage Guidelines” section.

Defaults	None
----------	------

Command Modes	Any command mode
---------------	------------------

Supported User Roles	network-admin network-operator vdc-admin vdc-operator
----------------------	--

Command History	Release	Modification
	4.2(1)	Command output is sorted alphabetically by the ACL names.
	4.0(1)	This command was introduced.

Usage Guidelines	The device shows all MAC ACLs, unless you use the <i>access-list-name</i> argument to specify an ACL.
------------------	---

If you do not specify an ACL name, the device lists ACLs alphabetically by the ACL names.

The **summary** keyword allows you to display information about the ACL rather than the ACL configuration. The information displayed includes the following:

- Whether per-entry statistics are configured for the ACL.
- The number of rules in the ACL configuration. This number does not reflect how many entries that the ACL contains when the device applies it to an interface. If a rule in the ACL uses an object group, the number of entries in the ACL when it is applied may be much greater than the number of rules.
- The interfaces that the ACL is applied to.
- The interfaces that the ACL is active on.

The **show mac access-lists** command displays statistics for each entry in an ACL if the following conditions are both true:

- The ACL configuration contains the **statistics per-entry** command.

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- The ACL is applied to an interface that is administratively up.

This command does not require a license.

Examples

This example shows how to use the **show mac access-lists** command to show all MAC ACLs on a device with a single MAC ACL:

```
switch# show mac access-lists
```

```
MAC access list mac-filter
  10 permit any any ip
```

This example shows how to use the **show mac access-lists** command to display a MAC ACL named mac-lab-filter, including per-entry statistics:

```
switch# show mac access-lists mac-lab-filter
```

```
MAC access list mac-lab-filter
  statistics per-entry
  10 permit 0600.ea5f.22ff 0000.0000.0000 any [match=820421]
  20 permit 0600.050b.3ee3 0000.0000.0000 any [match=732]
```

This example shows how to use the **show mac access-lists** command with the **summary** keyword to display information about a MAC ACL named mac-lab-filter, such as which interfaces the ACL is applied to and active on:

```
switch# show mac access-lists mac-lab-filter summary
```

```
MAC ACL mac-lab-filter

  Statistics enabled
  Total ACEs Configured: 2
  Configured on interfaces:
    Ethernet2/3 - ingress (Port ACL)
  Active on interfaces:
    Ethernet2/3 - ingress (Port ACL)
```

Related Commands

Command	Description
mac access-list	Configures a MAC ACL.
show access-lists	Displays all ACLs or a specific ACL.
show ip access-lists	Displays all IPv4 ACLs or a specific IPv4 ACL.
show ipv6 access-lists	Displays all IPv6 ACLs or a specific IPv6 ACL.

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show password strength-check

To display password-strength checking status, use the **show password strength-check** command.

show password strength-check

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(3)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display password-strength checking status:

```
switch# show password strength-check
Password strength check enabled
```

Related Commands	Command	Description
	password strength-check	Enables password-strength checking.
	show running-config security	Displays security feature configuration in the running configuration.

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show policy-map type control-plane

To display control plane policy map information, use the **show policy-map type control-plane** command.

show policy-map type control-plane [**expand**] [**name** *policy-map-name*]

Syntax Description		
expand	(Optional)	Displays expanded control plane policy map information.
name <i>policy-map-name</i>	(Optional)	Specifies the name of the control plane policy map. The name is case sensitive.

Defaults None

Command Modes Any command mode

Supported User Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines You can use this command only in the default virtual device context (VDC).
This command does not require a license.

Examples This example shows how to display control plane policy map information:

```
switch# show policy-map type control-plane

policy-map type control-plane copp-system-policy
  class copp-system-class-critical
    police cir 2000 kbps bc 1500 bytes pir 3000 kbps be 1500 bytes conform transmit
    exceed transmit violate drop
  class copp-system-class-important
    police cir 1000 kbps bc 1500 bytes pir 1500 kbps be 1500 bytes conform transmit
    exceed transmit violate drop
  class copp-system-class-normal
    police cir 400 kbps bc 1500 bytes pir 600 kbps be 1500 bytes conform transmit
    exceed transmit violate drop
  class class-default
    police cir 200 kbps bc 1500 bytes pir 300 kbps be 1500 bytes conform transmit
    exceed transmit violate drop
```

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show port-security

To show the state of port security on the device, use the **show port-security** command.

```
show port-security [state]
```

Syntax Description	state	(Optional) Shows that port security is enabled.
--------------------	-------	---

Defaults	None
----------	------

Command Modes	Any command mode
---------------	------------------

SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
--------------------	--

Command History	Release	Modification
	4.2(1)	Support for Layer 2 port-channel interfaces was added.
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
------------------	--

Examples	This example shows how to use the show port-security command to view the status of the port security feature on a device:
----------	--

```
switch# show port-security
```

```
Total Secured Mac Addresses in System (excluding one mac per port)      : 0
Max Addresses limit in System (excluding one mac per port) : 8192
```

```
-----
Secure Port  MaxSecureAddr  CurrentAddr  SecurityViolation  Security Action
              (Count)          (Count)          (Count)
-----
Ethernet1/4      5              1              0              Shutdown
=====
switch#
```

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Related Commands	Command	Description
	feature port-security	Enables the port security feature.
	show port-security address	Shows MAC addresses secured by the port security feature.
	show port-security interface	Shows the port security status for a specific interface.
	switchport port-security	Configures port security on a Layer 2 interface.

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show port-security address

To show information about MAC addresses secured by the port security feature, use the **show port-security address** command.

```
show port-security address [interface {port-channel channel-number | ethernet slot/port}]
```

Syntax Description	interface	(Optional) Limits the port-security MAC address information to a specific interface.
	port-channel <i>channel-number</i>	Specifies a Layer 2 port-channel interface. The <i>channel-number</i> argument can be a whole number from 1 to 4096.
	ethernet <i>slot/port</i>	Specifies an Ethernet interface.

Defaults None

Command Modes Any command mode

Supported User Roles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.2(1)	Support for Layer 2 port-channel interfaces was added.
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

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Examples

This example shows how to use the **show port-security address** command to view information about all MAC addresses secured by port security:

```
switch# show port-security address

Total Secured Mac Addresses in System (excluding one mac per port)      : 0
Max Addresses limit in System (excluding one mac per port) : 8192

-----
Secure Mac Address Table
-----
Vlan    Mac Address                Type           Ports          Remaining Age
-----  -
      1    0054.AAB3.770F             STATIC         port-channel1  0
      1    00EE.378A.ABCE             STATIC         Ethernet1/4    0
=====
switch#
```

This example shows how to use the **show port-security address** command to view the MAC addresses secured by the port security feature on the Ethernet 1/4 interface:

```
switch# show port-security address interface ethernet 1/4
Secure Mac Address Table
-----
Vlan    Mac Address                Type           Ports          Remaining Age
-----  -
      1    00EE.378A.ABCE             STATIC         Ethernet1/4    0
-----
switch#
```

Related Commands

Command	Description
feature port-security	Enables the port security feature.
show port-security	Shows the status of the port security feature.
show port-security interface	Shows the port security status for a specific interface.
switchport port-security	Configures port security on a Layer 2 interface.

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show port-security interface

To show the state of port security on a specific interface, use the **show port-security interface** command.

```
show port-security interface {port-channel channel-number | ethernet slot/port}
```

Syntax Description	port-channel <i>channel-number</i>	Specifies a Layer 2 port-channel interface. The <i>channel-number</i> argument can be a whole number from 1 to 4096.
	ethernet <i>slot/port</i>	Specifies an Ethernet interface.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.2(1)	Support for Layer 2 port-channel interfaces was added.
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to use the **show port-security interface** command to view the status of the port security feature on the Ethernet 1/4 interface:

```
switch# show port-security interface ethernet 1/4
Port Security           : Enabled
Port Status             : Secure Down
Violation Mode          : Shutdown
Aging Time              : 0 mins
Aging Type              : Absolute
Maximum MAC Addresses   : 5
Total MAC Addresses     : 1
Configured MAC Addresses : 1
Sticky MAC Addresses    : 0
Security violation count : 0
switch#
```

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Related Commands	Command	Description
	feature port-security	Enables the port security feature.
	show port-security	Shows the status of the port security feature.
	show port-security address	Shows MAC addresses secured by the port security feature.
	switchport port-security	Configures port security on a Layer 2 interface.

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show radius

To display the RADIUS Cisco Fabric Services distribution status and other details, use the **show radius** command.

```
show radius {distribution status | merge status | pending [cmds] | pending-diff | session status
            | status}
```

Syntax Description		
distribution status		Displays the status of the RADIUS CFS distribution.
merge status		Displays the status of a RADIUS merge.
pending		Displays the pending configuration that is not yet applied to the running configuration.
cmds	(Optional)	Displays the commands for the pending configuration.
pending-diff		Displays the difference between the active configuration and the pending configuration.
session status		Displays the status of the RADIUS CFS session.
status		Displays the status of the RADIUS CFS.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

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Examples

This example displays the RADIUS distribution status.

```
switch# show radius distribution status
distribution : enabled
session ongoing: no
session db: does not exist
merge protocol status: not yet initiated after enable

last operation: enable
last operation status: success
```

This example displays the RADIUS merge status.

```
switch# show radius merge status
Result: Waiting
```

This example displays the RADIUS distribution status.

```
switch# show radius session status
Last Action Time Stamp      : None
Last Action                  : Distribution Enable
Last Action Result          : Success
Last Action Failure Reason  : none
```

This example displays the RADIUS distribution status.

```
switch# show radius status
distribution : enabled
session ongoing: no
session db: does not exist
merge protocol status: not yet initiated after enable

last operation: enable
last operation status: success
```

This example displays the pending RADIUS configuration.

```
switch# show radius pending
radius-server host 10.10.1.1 key 7 qxz123aaa group server radius aaa-private-sg
```

This example displays the pending RADIUS configuration commands.

```
switch# show radius pending cmds
radius-server host 10.10.1.1 key 7 qxz12345 auth_port 1812 acct_port 1813 authentication
accounting
```

This example displays the differences between the pending RADIUS configuration and the current RADIUS configuration.

```
switch(config)# show radius pending-diff
+radius-server host 10.10.1.1 authentication accounting
```

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show radius-server

To display RADIUS server information, use the **show radius-server** command.

```
show radius-server [hostname | ipv4-address | ipv6-address]
                  [directed-request | groups | sorted | statistics]
```

Syntax	Description
<i>hostname</i>	(Optional) RADIUS server Domain Name Server (DNS) name. The name is case sensitive.
<i>ipv4-address</i>	(Optional) RADIUS server IPv4 address in the <i>A.B.C.D</i> format.
<i>ipv6-address</i>	(Optional) RADIUS server IPv6 address in the <i>X:X:X::X</i> format.
directed-request	(Optional) Displays the directed request configuration.
groups	(Optional) Displays information about the configured RADIUS server groups.
sorted	(Optional) Displays sorted-by-name information about the RADIUS servers.
statistics	(Optional) Displays RADIUS statistics for the RADIUS servers.

Defaults Displays the global RADIUS server configuration

Command Modes Any command mode

Supported User Roles

- network-admin
- network-operator
- vdc-admin
- vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines RADIUS preshared keys are not visible in the **show radius-server** command output. Use the **show running-config radius** command to display the RADIUS preshared keys.

This command does not require a license.

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Examples

This example shows how to display information for all RADIUS servers:

```
switch# show radius-server
Global RADIUS shared secret:*****
retransmission count:1
timeout value:5
deadtime value:0
total number of servers:2

following RADIUS servers are configured:
  10.10.1.1:
    available for authentication on port:1812
    available for accounting on port:1813
  10.10.2.2:
    available for authentication on port:1812
    available for accounting on port:1813
```

This example shows how to display information for a specified RADIUS server:

```
switch# show radius-server 10.10.1.1
10.10.1.1:
  available for authentication on port:1812
  available for accounting on port:1813
  idle time:0
  test user:test
  test password:*****
```

This example shows how to display the RADIUS directed request configuration:

```
switch# show radius-server directed-request
enabled
```

This example shows how to display information for RADIUS server groups:

```
switch# show radius-server groups
total number of groups:2

following RADIUS server groups are configured:
  group radius:
    server: all configured radius servers
  group RadServer:
    deadtime is 0
    vrf is management
```

This example shows how to display information for a specified RADIUS server group:

```
switch# show radius-server groups RadServer
group RadServer:
  deadtime is 0
  vrf is management
```

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This example shows how to display sorted information for all RADIUS servers:

```
switch# show radius-server sorted
Global RADIUS shared secret:*****
retransmission count:1
timeout value:5
deadtime value:0
total number of servers:2

following RADIUS servers are configured:
  10.10.0.0:
    available for authentication on port:1812
    available for accounting on port:1813
  10.10.1.1:
    available for authentication on port:1812
    available for accounting on port:1813
```

This example shows how to display statistics for a specified RADIUS server:

```
switch# show radius-server statistics 10.10.1.1
Server is not monitored

Authentication Statistics
  failed transactions: 0
  sucessfull transactions: 0
  requests sent: 0
  requests timed out: 0
  responses with no matching requests: 0
  responses not processed: 0
  responses containing errors: 0

Accounting Statistics
  failed transactions: 0
  sucessfull transactions: 0
  requests sent: 0
  requests timed out: 0
  responses with no matching requests: 0
  responses not processed: 0
  responses containing errors: 0
```

Related Commands

Command	Description
show running-config radius	Displays the RADIUS information in the running configuration file.

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show role

To display the user role configuration, use the **show role** command.

```
show role [name role-name]
```

Syntax Description	name <i>role-name</i>	(Optional) Displays information for a specific user role name. The role name is case sensitive.
---------------------------	------------------------------	---

Defaults	Displays information for all user roles.
-----------------	--

Command Modes	Any command mode
----------------------	------------------

SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
---------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
-------------------------	--

Examples This example shows how to display information for a specific user role:

```
switch(config)# show role name MyRole

role: MyRole
  description: new role
  vlan policy: deny
  permitted vlan
  1-10
  interface policy: deny
  permitted interface
  Ethernet2/1-8
  vrf policy: permit (default)
```

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This example shows how to display information for all user roles in the default virtual device context (VDC):

```
switch(config)# show role
```

```
role: network-admin
description: Predefined network admin role has access to all commands
on the switch
```

```
-----
Rule    Perm    Type      Scope      Entity
-----
1       permit  read-write
```

```
role: network-operator
description: Predefined network operator role has access to all read
commands on the switch
```

```
-----
Rule    Perm    Type      Scope      Entity
-----
1       permit  read
```

```
role: vdc-admin
description: Predefined vdc admin role has access to all commands within
a VDC instance
```

```
-----
Rule    Perm    Type      Scope      Entity
-----
1       permit  read-write
```

```
role: vdc-operator
description: Predefined vdc operator role has access to all read commands
within a VDC instance
```

```
-----
Rule    Perm    Type      Scope      Entity
-----
1       permit  read
```

```
role: MyRole
description: new role
vlan policy: deny
permitted vlan
1-10
interface policy: deny
permitted interface
Ethernet2/1-8
vrf policy: permit (default)
```

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This example shows how to display information for all user roles in a nondefault virtual device context (VDC):

```
switch-MyVDC# show role

role: vdc-admin
description: Predefined vdc admin role has access to all commands within
a VDC instance
-----
Rule      Perm      Type      Scope      Entity
-----
1         permit   read-write

role: vdc-operator
description: Predefined vdc operator role has access to all read commands
within a VDC instance
-----
Rule      Perm      Type      Scope      Entity
-----
1         permit   read
```

Related Commands

Command	Description
role name	Configures user roles.

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show role feature

To display the user role features, use the **show role feature** command.

```
show role feature [detail | name feature-name]
```

Syntax Description	detail	(Optional) Displays detailed information for all features.
	name <i>feature-name</i>	(Optional) Displays detailed information for a specific feature. The feature name is case sensitive.

Defaults	Displays a list of user role feature names.
----------	---

Command Modes	Any command mode
---------------	------------------

Supported User Roles	network-admin network-operator vdc-admin vdc-operator
----------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
------------------	--

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Examples

This example shows how to display the user role features:

```
switch(config)# show role feature
feature: aaa
feature: access-list
feature: arp
feature: callhome
feature: cdp
feature: crypto
feature: gold
feature: install
feature: l3vm
feature: license
feature: ping
feature: platform
feature: qosmgr
feature: radius
feature: scheduler
feature: snmp
feature: syslog
<content deleted>
```

This example shows how to display detailed information for all the user role features:

```
switch(config)# show role feature detail
feature: aaa
  show aaa *
  config t ; aaa *
  aaa *
  clear aaa *
  debug aaa *
  show accounting *
  config t ; accounting *
  accounting *
  clear accounting *
  debug accounting *
feature: access-list
  show ip access-list *
  show ipv6 access-list *
  show mac access-list *
  show arp access-list *
  show vlan access-map *
  config t ; ip access-list *
  config t ; ipv6 access-list *
  config t ; mac access-list *
  config t ; arp access-list *
  config t ; vlan access-map *
  clear ip access-list *
  clear ipv6 access-list *
  clear mac access-list *
  clear arp access-list *
  clear vlan access-map *
  debug aclmgr *
feature: arp
  show arp *
  show ip arp *
  config t; ip arp *
  clear ip arp *
  debug ip arp *
  debug-filter ip arp *
<content deleted>
```

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This example shows how to display detailed information for a specific user role feature:

```
switch(config)# show role feature name dot1x
feature: dot1x
  show dot1x *
  config t ; dot1x *
  dot1x *
  clear dot1x *
  debug dot1x *
```

Related Commands

Command	Description
role feature-group	Configures feature groups for user roles.
rule	Configures rules for user roles.

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show role feature-group

To display the user role feature groups, use the **show role feature-group** command.

```
show role feature-group [detail | name group-name]
```

Syntax Description	detail	(Optional) Displays detailed information for all feature groups.
	name <i>group-name</i>	(Optional) Displays detailed information for a specific feature group. The group name is case sensitive.

Defaults Displays a list of user role feature groups.

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the user role feature groups:

```
switch(config)# show role feature-group
```

```
feature group: L3
feature: router-bgp
feature: router-eigrp
feature: router-isis
feature: router-ospf
feature: router-rip
```

```
feature group: SecGroup
feature: aaa
feature: radius
feature: tacacs
```

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This example shows how to display detailed information about all the user role feature groups:

```
switch(config)# show role feature-group detail
```

```
feature group: L3
feature: router-bgp
  show bgp *
  config t ; bgp *
  bgp *
  clear bgp *
  debug bgp *
  show ip bgp *
  show ip mbgp *
  show ipv6 bgp *
  show ipv6 mbgp *
  clear ip bgp *
  clear ip mbgp *
  debug-filter ip *
  debug-filter ip bgp *
  config t ; router bgp *
feature: router-eigrp
  show eigrp *
  config t ; eigrp *
  eigrp *
  clear eigrp *
  debug eigrp *
  show ip eigrp *
  clear ip eigrp *
  debug ip eigrp *
  config t ; router eigrp *
feature: router-isis
  show isis *
  config t ; isis *
  isis *
  clear isis *
  debug isis *
  debug-filter isis *
  config t ; router isis *
feature: router-ospf
  show ospf *
  config t ; ospf *
  ospf *
  clear ospf *
  debug ospf *
  show ip ospf *
  show ospfv3 *
  show ipv6 ospfv3 *
  debug-filter ip ospf *
  debug-filter ospfv3 *
  debug ip ospf *
  debug ospfv3 *
  clear ip ospf *
  clear ip ospfv3 *
  config t ; router ospf *
  config t ; router ospfv3 *
feature: router-rip
  show rip *
  config t ; rip *
  rip *
  clear rip *
  debug rip *
  show ip rip *
  show ipv6 rip *
  overload rip *
```


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```
debug-filter rip *
clear ip rip *
clear ipv6 rip *
config t ; router rip *
```

This example shows how to display information for a specific user role feature group:

```
switch(config)# show role feature-group name SecGroup
```

```
feature group: SecGroup
feature: aaa
feature: radius
feature: tacacs
```

Related Commands

Command	Description
role feature-group	Configures feature groups for user roles.
rule	Configures rules for user roles.

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show role pending

To display the pending user role configuration differences for the Cisco Fabric Services distribution session, use the **show role pending** command.

show role pending

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.1(2)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example displays the user role configuration differences for the Cisco Fabric Services session:

```
switch# show role pending
Role: test-user
  Description: new role
  Vlan policy: permit (default)
  Interface policy: permit (default)
  Vrf policy: permit (default)
-----
Rule    Perm   Type      Scope      Entity
-----
1       permit read-write feature      aaa
```

Related Commands	Command	Description
	role distribute	Enables Cisco Fabric Services distribution for the user role configuration.

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show role pending-diff

To display the differences between the pending user role configuration for the Cisco Fabric Services distribution session and the running configuration, use the **show role pending-diff** command.

show role pending-diff

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.1(2)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example displays the user role configuration differences for the Cisco Fabric Services session:

```
switch# show role pending
+Role: test-user
+ Description: new role
+ Vlan policy: permit (default)
+ Interface policy: permit (default)
+ Vrf policy: permit (default)
+ -----
+ Rule      Perm      Type      Scope      Entity
+ -----
+ 1         permit  read-write feature      aaa
```

Related Commands	Command	Description
	role distribute	Enables Cisco Fabric Services distribution for the user role configuration.

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show role session

To display the status information for a user role Cisco Fabric Services session, use the **show role session** command.

show role session status

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.1(2)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example displays the user role configuration differences for the Cisco Fabric Services session:

```
switch# show role session status
Last Action Time Stamp      : Thu Nov 20 12:43:26 2008
Last Action                  : Distribution Enable
Last Action Result          : Success
Last Action Failure Reason  : none
```

Related Commands	Command	Description
	role distribute	Enables Cisco Fabric Services distribution for the user role configuration.

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show role status

To display the status for the Cisco Fabric Services distribution for the user role feature, use the **show role status** command.

show role status

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.1(2)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example displays the user role configuration differences for the Cisco Fabric Services session:

```
switch# show role status
Distribution: Enabled
Session State: Locked
```

Related Commands	Command	Description
	role distribute	Enables Cisco Fabric Services distribution for the user role configuration.

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show running-config aaa

To display authentication, authorization, and accounting (AAA) configuration information in the running configuration, use the **show running-config aaa** command.

show running-config aaa [all]

Syntax Description	all (Optional) Displays configured and default information.
---------------------------	--

Defaults	None
-----------------	------

Command Modes	Any command mode
----------------------	------------------

SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
---------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
-------------------------	--

Examples	This example shows how to display the configured AAA information in the running configuration:
-----------------	--

```
switch# show running-config aaa
version 4.0(1)
```

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show running-config copp

To display control plane policing configuration information in the running configuration, use the **show running-config copp** command.

show running-config copp [all]

Syntax Description	all (Optional) Displays configured and default information.
---------------------------	--

Defaults	None
-----------------	------

Command Modes	Any command mode
----------------------	------------------

SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
---------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	You can use this command only in the default virtual device context (VDC). This command does not require a license.
-------------------------	--

Examples	This example shows how to display the configured control plane policing information in the running configuration:
-----------------	---

```
switch# show running-config copp
version 4.0(1)
class-map type control-plane match-any copp-system-class-critical
  match access-group name copp-system-acl-arp
  match access-group name copp-system-acl-msdp
class-map type control-plane match-any copp-system-class-important
  match access-group name copp-system-acl-gre
  match access-group name copp-system-acl-tacas
class-map type control-plane match-any copp-system-class-normal
  match access-group name copp-system-acl-icmp
  match redirect dhcp-snoop
  match redirect arp-inspect
  match exception ip option
  match exception ip icmp redirect
  match exception ip icmp unreachable
```

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```

policy-map type control-plane copp-system-policy
  class copp-system-class-critical
    police cir 2000 kbps bc 1500 bytes pir 3000 kbps be 1500 bytes conform transmit exceed
  transmit violate drop
  class copp-system-class-important
    police cir 1000 kbps bc 1500 bytes pir 1500 kbps be 1500 bytes conform transmit exceed
  transmit violate drop
  class copp-system-class-normal
    police cir 400 kbps bc 1500 bytes pir 600 kbps be 1500 bytes conform transmit exceed
  transmit violate drop
  class class-default
    police cir 200 kbps bc 1500 bytes pir 300 kbps be 1500 bytes conform transmit exceed
  transmit violate drop

```

This example shows how to display the configured and default control plane policing information in the running configuration:

```

switch# show running-config copp all
version 4.0(1)
class-map type control-plane match-any copp-system-class-critical
  match access-group name copp-system-acl-arp
  match access-group name copp-system-acl-msdp
class-map type control-plane match-any copp-system-class-important
  match access-group name copp-system-acl-gre
  match access-group name copp-system-acl-tacas
class-map type control-plane match-any copp-system-class-normal
  match access-group name copp-system-acl-icmp
  match redirect dhcp-snoop
  match redirect arp-inspect
  match exception ip option
  match exception ip icmp redirect
  match exception ip icmp unreachable
policy-map type control-plane copp-system-policy
  class copp-system-class-critical
    police cir 2000 kbps bc 1500 bytes pir 3000 kbps be 1500 bytes conform transmit exceed
  transmit violate drop
  class copp-system-class-important
    police cir 1000 kbps bc 1500 bytes pir 1500 kbps be 1500 bytes conform transmit exceed
  transmit violate drop
  class copp-system-class-normal
    police cir 400 kbps bc 1500 bytes pir 600 kbps be 1500 bytes conform transmit exceed
  transmit violate drop
  class class-default
    police cir 200 kbps bc 1500 bytes pir 300 kbps be 1500 bytes conform transmit exceed
  transmit violate drop

```


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show running-config cts

To display the Cisco TrustSec configuration in the running configuration, use the **show running-config cts** command.

show running-config cts

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any configuration mode

SupportedUserRoles network-admin
vdc-admin
network-operator
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines To use this command, you must enable the Cisco TrustSec feature using the **feature cts** command. This command requires the Advanced Services license.

Examples This example shows how to display the Cisco TrustSec configuration in the running configuration:

```
switch# show running-config cts
version 4.0(1)
feature cts
cts role-based enforcement
cts role-based sgt-map 10.10.1.1 10
cts role-based access-list MySGACL
    permit icmp
cts role-based sgt 65535 dgt 65535 access-list MySGACL
cts sxp enable
cts sxp connection peer 10.10.3.3 source 10.10.2.2 password default mode listener
vlan 1
    cts role-based enforcement
vrf context MyVRF
    cts role-based enforcement
```

■ show running-config cts

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Related Commands	Command	Description
	feature cts	Enables the Cisco TrustSec feature.

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show running-config dhcp

To display the DHCP snooping configuration in the running configuration, use the **show running-config dhcp** command.

```
show running-config dhcp [all]
```

Syntax Description	all (Optional) Displays configured and default information.
---------------------------	--

Defaults	None
-----------------	------

Command Modes	Any command mode
----------------------	------------------

SupportedUserRoles	network-admin vdc-admin network-operator vdc-operator
---------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	To use this command, you must enable the DHCP snooping feature using the feature dhcp command. This command does not require a license.
-------------------------	--

Examples	This example shows how to display the DHCP snooping configuration:
-----------------	--

```
switch# show running-config dhcp
version 4.0(1)
feature dhcp

interface Ethernet2/46
  ip verify source dhcp-snooping-vlan
  ip arp inspection trust
ip dhcp snooping
ip arp inspection validate src-mac dst-mac ip
ip source binding 10.3.2.2 0f00.60b3.2333 vlan 13 interface Ethernet2/46
ip source binding 10.2.2.2 0060.3454.4555 vlan 100 interface Ethernet2/10
ip dhcp snooping vlan 1
ip arp inspection vlan 1
ip dhcp snooping vlan 13
ip arp inspection vlan 13

switch#
```

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Related Commands	Command	Description
	feature dhcp	Enables the DHCP snooping feature on the device.
	ip dhcp snooping	Globally enables DHCP snooping on the device.
	service dhcp	Enables or disables the DHCP relay agent.
	show ip dhcp snooping	Displays general information about DHCP snooping.
	show ip dhcp snooping binding	Displays IP-MAC address bindings, including the static IP source entries.

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show running-config dot1x

To display 802.1X configuration information in the running configuration, use the **show running-config dot1x** command.

show running-config dot1x [all]

Syntax Description	all (Optional) Displays configured and default information.
---------------------------	--

Defaults	None
-----------------	------

Command Modes	Any command mode
----------------------	------------------

SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
---------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	You must enable the 802.1X feature by using the feature dot1x command before using this command. This command does not require a license.
-------------------------	--

Examples	This example shows how to display the configured 802.1X information in the running configuration:
-----------------	---

```
switch# show running-config dot1x
version 4.0(1)
```

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show running-config eou

To display the Extensible Authentication Protocol over User Datagram Protocol (EAPoUDP) configuration information in the running configuration, use the **show running-config eou** command.

show running-config eou [**all**]

Syntax Description	all (Optional) Displays configured and default information.				
Defaults	None				
Command Modes	Any command mode				
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.0(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.0(1)	This command was introduced.
Release	Modification				
4.0(1)	This command was introduced.				
Usage Guidelines	You must enable the EAPoUDP feature by using the feature eou command before using this command. This command does not require a license.				
Examples	<p>This example shows how to display the configured EAPoUDP information in the running configuration:</p> <pre>switch# show running-config eou version 4.0(1)</pre>				

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show running-config port-security

To display port-security information in the running configuration, use the **show running-config port-security** command.

show running-config port-security [all]

Syntax Description	all (Optional) Displays default port-security configuration information.				
Defaults	None				
Command Modes	Any command mode				
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.0(3)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.0(3)	This command was introduced.
Release	Modification				
4.0(3)	This command was introduced.				
Usage Guidelines	This command does not require a license.				
Examples	<p>This example shows how to display information for port-security in the running configuration:</p> <pre>switch# show running-port-security version 4.0(3) feature port-security logging level port-security 5 interface Ethernet2/3 switchport port-security</pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show startup-config port-security</td> <td>Displays port-security information in the startup configuration</td> </tr> </tbody> </table>	Command	Description	show startup-config port-security	Displays port-security information in the startup configuration
Command	Description				
show startup-config port-security	Displays port-security information in the startup configuration				

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show running-config radius

To display RADIUS server information in the running configuration, use the **show running-config radius** command.

show running-config radius [all]

Syntax Description	all	(Optional) Displays default RADIUS configuration information.
Defaults	None	
Command Modes	Any command mode	
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator	
Command History	Release	Modification
	4.0(1)	This command was introduced.
Usage Guidelines	This command does not require a license.	
Examples	This example shows how to display information for RADIUS in the running configuration: switch# show running-config radius	
Related Commands	Command	Description
	show radius-server	Displays RADIUS information.

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show running-config security

To display user account, SSH server, and Telnet server information in the running configuration, use the **show running-config security** command.

show running-config security [all]

Syntax Description	all	(Optional) Displays default user account, SSH server, and Telnet server configuration information.
---------------------------	------------	--

Defaults	None
-----------------	------

Command Modes	Any command mode
----------------------	------------------

SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
---------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
-------------------------	--

Examples	This example shows how to display user account, SSH server, and Telnet server information in the running configuration:
-----------------	---

```
switch# show running-config security
version 4.0(1)
username admin password 5 $1$7Jwq/LDM$XF0M/UWeT43DmtjZy8VP91 role network-admin
username adminbackup password 5 $1$0ip/C5Ci$oOdx7oJS1BCFpNRmQK4na. role network-operator
username user1 password 5 $1$qEc1Q5Rx$CAX9fXiAoFPYSvbVzpzj/ role network-operator
telnet server enable
ssh key rsa 768 force
```

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show running-config tacacs+

To display TACACS+ server information in the running configuration, use the **show running-config tacacs+** command.

show running-config tacacs+ [all]

Syntax Description	all	(Optional) Displays default TACACS+ configuration information.
--------------------	-----	--

Defaults	None
----------	------

Command Modes	Any command mode
---------------	------------------

SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
--------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	You must use the feature tacacs+ command before you can display TACACS+ information. This command does not require a license.
------------------	---

Examples	This example shows how to display TACACS+ information in the running configuration: switch# show running-config tacacs+
----------	---

Related Commands	Command	Description
	show tacacs-server	Displays TACACS+ information.

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show ssh key

To display the Secure Shell (SSH) server key for a virtual device context (VDC), use the **show ssh key** command.

show ssh key

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command is available only when SSH is enabled using the **feature ssh** command. This command does not require a license.

Examples This example shows how to display the SSH server key:

```
switch# show ssh key
*****
rsa Keys generated:Mon Mar 17 15:02:44 2008

ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAGEAqyiGkvwk0xyAXU1/OmeIrSq0QIYYD1o05F2lwDjfkVQfOq8S10q6LW4Uv5+0m
1vvUjoI002SsdG7tCA6VpGtD/cuPTdQSMpdu6MF9H2TYTuC5TyFGYiLf/0vYTeHe+9

bitcount:768
fingerprint:
9b:d9:09:97:f6:40:76:89:05:15:42:6b:12:48:0f:d6
*****
could not retrieve dsa key information
*****
```

■ show ssh key

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Related Commands	Command	Description
	ssh server key	Configures the SSH server key.

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show ssh server

To display the Secure Shell (SSH) server status for a virtual device context (VDC), use the **show ssh server** command.

show ssh server

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the SSH server status:

```
switch# show ssh server
ssh is enabled
version 2 enabled
```

Related Commands	Command	Description
	feature ssh	Enables the SSH server.

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show startup-config aaa

To display authentication, authorization, and accounting (AAA) configuration information in the startup configuration, use the **show startup-config aaa** command.

show startup-config aaa

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the AAA information in the startup configuration:

```
switch# show startup-config aaa
version 4.0(1)
```

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show startup-config copp

To display control plane policing configuration information in the startup configuration, use the **show startup-config copp** command.

show startup-config copp

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines You can use this command only in the default virtual device context (VDC).
This command does not require a license.

Examples This example shows how to display the control plane policing information in the startup configuration:

```
switch# show startup-config copp
version 4.0(1)
class-map type control-plane match-any MyClassMap
  match redirect dhcp-snoop
class-map type control-plane match-any copp-system-class-critical
  match access-group name copp-system-acl-arp
  match access-group name copp-system-acl-msdp
class-map type control-plane match-any copp-system-class-important
  match access-group name copp-system-acl-gre
  match access-group name copp-system-acl-tacas
class-map type control-plane match-any copp-system-class-normal
  match access-group name copp-system-acl-icmp
  match redirect dhcp-snoop
  match redirect arp-inspect
  match exception ip option
  match exception ip icmp redirect
  match exception ip icmp unreachable
```

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```
policy-map type control-plane MyPolicyMap
  class MyClassMap
    police cir 0 bps bc 0 bytes conform drop violate drop
policy-map type control-plane copp-system-policy
  class copp-system-class-critical
    police cir 2000 kbps bc 1500 bytes pir 3000 kbps be 1500 bytes conform transmit exceed
  transmit violate drop
  class copp-system-class-important
    police cir 1000 kbps bc 1500 bytes pir 1500 kbps be 1500 bytes conform transmit exceed
  transmit violate drop
  class copp-system-class-normal
    police cir 400 kbps bc 1500 bytes pir 600 kbps be 1500 bytes conform transmit exceed
  transmit violate drop
  class class-default
    police cir 200 kbps bc 1500 bytes pir 300 kbps be 1500 bytes conform transmit exceed
  transmit violate drop
policy-map type control-plane x
  class class-default
    police cir 0 bps bc 0 bytes conform drop violate drop
```


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show startup-config dhcp

To display the DHCP snooping configuration in the startup configuration, use the **show startup-config dhcp** command.

show startup-config dhcp [all]

Syntax Description	all (Optional) Displays configured and default information.
---------------------------	--

Defaults	None
-----------------	------

Command Modes	Any command mode
----------------------	------------------

SupportedUserRoles	network-admin vdc-admin network-operator vdc-operator
---------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	To use this command, you must enable the DHCP snooping feature using the feature dhcp command. This command does not require a license.
-------------------------	--

Examples	This example shows how to display the DHCP snooping configuration in the startup configuration:
-----------------	---

```
switch# show startup-config dhcp
version 4.0(1)
feature dhcp

interface Ethernet2/46
  ip verify source dhcp-snooping-vlan
  ip arp inspection trust
ip dhcp snooping
ip arp inspection validate src-mac dst-mac ip
ip source binding 10.3.2.2 0f00.60b3.2333 vlan 13 interface Ethernet2/46
ip source binding 10.2.2.2 0060.3454.4555 vlan 100 interface Ethernet2/10
ip dhcp snooping vlan 1
ip arp inspection vlan 1
ip dhcp snooping vlan 13
ip arp inspection vlan 13

switch#
```

■ show startup-config dhcp

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Related Commands

Command	Description
feature dhcp	Enables the DHCP snooping feature on the device.
show running-config dhcp	Shows DHCP snooping configuration in the running configuration.

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show startup-config dot1x

To display 802.1X configuration information in the startup configuration, use the **show startup-config dot1x** command.

```
show startup-config dot1x
```

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines You must enable the 802.1X feature by using the **feature dot1x** command before using this command. This command does not require a license.

Examples This example shows how to display the 802.1X information in the startup configuration:

```
switch# show startup-config dot1x
version 4.0(1)
```

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show startup-config eou

To display the Extensible Authentication Protocol over User Datagram Protocol (EAPoUDP) configuration information in the startup configuration, use the **show startup-config eou** command.

show startup-config eou

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines You must enable the EAPoUDP feature by using the **feature eou** command before using this command. This command does not require a license.

Examples This example shows how to display the EAPoUDP information in the startup configuration:

```
switch# show startup-config eou
version 4.0(1)
```

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show startup-config port-security

To display port-security information in the startup configuration, use the **show startup-config port-security** command.

show startup-config port-security [all]

Syntax Description	all (Optional) Displays default port-security configuration information.				
Defaults	None				
Command Modes	Any command mode				
SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.0(3)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.0(3)	This command was introduced.
Release	Modification				
4.0(3)	This command was introduced.				
Usage Guidelines	This command does not require a license.				
Examples	<p>This example shows how to display information for port-security in the startup configuration:</p> <pre>switch# show startup-port-security version 4.0(3) feature port-security logging level port-security 5 interface Ethernet2/3 switchport port-security</pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show running-config port-security</td> <td>Displays port-security information in the running configuration</td> </tr> </tbody> </table>	Command	Description	show running-config port-security	Displays port-security information in the running configuration
Command	Description				
show running-config port-security	Displays port-security information in the running configuration				

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show startup-config radius

To display RADIUS configuration information in the startup configuration, use the **show startup-config radius** command.

show startup-config radius

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the RADIUS information in the startup configuration:

```
switch# show startup-config radius
version 4.0(1)
```

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show startup-config security

To display user account, Secure Shell (SSH) server, and Telnet server configuration information in the startup configuration, use the **show startup-config security** command.

show startup-config security

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the user account, SSH server, and Telnet server information in the startup configuration:

```
switch# show startup-config security
version 4.0(1)
username admin password 5 $1$7Jwq/LDM$XF0M/UWeT43DmtjZy8VP91 role network-admin
username adminbackup password 5 $1$0ip/C5Ci$oOdx7oJS1BCFpNRmQK4na. role network-operator
username user1 password 5 $1$qEc1Q5Rx$CAX9fXiAoFPYSvbVzpazj/ role network-operator
telnet server enable
ssh key rsa 768 force
```

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show startup-config tacacs+

To display TACACS+ configuration information in the startup configuration, use the **show startup-config tacacs+** command.

show startup-config tacacs+

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the TACACS+ information in the startup configuration:

```
switch# show startup-config tacacs+
version 4.0(1)
```


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show tacacs+

To display the TACACS+ Cisco Fabric Services distribution status and other details, use the **show tacacs+** command.

show tacacs+ {distribution status | pending [cmds] | pending-diff}

Syntax Description		
distribution status	Displays the status of the TACACS+ CFS distribution.	
merge status	Displays the status of a TACACS+ merge.	
pending	Displays the pending configuration that is not yet applied to the running configuration.	
cmds	(Optional) Displays the commands for the pending configuration.	
pending-diff	Displays the difference between the active configuration and the pending configuration.	
session status	Displays the status of the TACACS+ CFS session.	
status	Displays the status of the TACACS+ CFS.	

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example displays the TACACS+ distribution status.

```
switch# show tacacs+ distribution status
distribution : enabled
session ongoing: no
session db: does not exist
merge protocol status: not yet initiated after enable

last operation: enable
last operation status: success
```

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This example displays the TACACS+ merge status.

```
switch# show tacacs+ merge status
Result: Waiting
```

This example displays the TACACS+ distribution status.

```
switch# show tacacs+ session status
Last Action Time Stamp      : None
Last Action                  : Distribution Enable
Last Action Result          : Success
Last Action Failure Reason  : none
```

This example displays the TACACS+ distribution status.

```
switch# show tacacs+ status
distribution : enabled
session ongoing: no
session db: does not exist
merge protocol status: not yet initiated after enable

last operation: enable
last operation status: success
```

This example displays the pending TACACS+ configuration.

```
switch# show tacacs+ pending
tacacs-server host 10.10.2.2 key 7 qxz12345
```

This example displays the pending TACACS+ configuration commands.

```
switch# show tacacs+ pending cmds
tacacs-server host 10.10.2.2 key 7 qxz12345 port 49
```

This example displays the differences between the pending TACACS+ configuration and the current TACACS+ configuration.

```
switch# show tacacs+ pending-diff
+tacacs-server host 10.10.2.2
```

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show tacacs-server

To display TACACS+ server information, use the **show tacacs-server** command.

```
show tacacs-server [hostname | ip4-address | ipv6-address]
[directed-request | groups | sorted | statistics]
```

Syntax Description		
<i>hostname</i>	(Optional) TACACS+ server Domain Name Server (DNS) name. The maximum character size is 256.	
<i>ip4-address</i>	(Optional) TACACS+ server IPv4 address in the <i>A.B.C.D</i> format.	
<i>ipv6-address</i>	(Optional) TACACS+ server IPv6 address in the <i>X:X:X::X</i> format.	
directed-request	(Optional) Displays the directed request configuration.	
groups	(Optional) Displays information about the configured TACACS+ server groups.	
sorted	(Optional) Displays sorted-by-name information about the TACACS+ servers.	
statistics	(Optional) Displays TACACS+ statistics for the TACACS+ servers.	

Defaults Displays the global TACACS+ server configuration

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines TACACS+ preshared keys are not visible in the **show tacacs-server** command output. Use the **show running-config tacacs+** command to display the TACACS+ preshared keys.

You must use the **feature tacacs+** command before you can display TACACS+ information.

This command does not require a license.

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Examples

This example shows how to display information for all TACACS+ servers:

```
switch# show tacacs-server
Global TACACS+ shared secret:*****
timeout value:5
deadtime value:0
total number of servers:2
```

following TACACS+ servers are configured:

```
10.10.2.2:
    available on port:49
10.10.1.1:
    available on port:49
```

This example shows how to display information for a specified TACACS+ server:

```
switch# show tacacs-server 10.10.2.2
10.10.2.2:
    available for authentication on port:1812
    available for accounting on port:1813
    idle time:0
    test user:test
    test password:*****
```

This example shows how to display the TACACS+ directed request configuration:

```
switch# show tacacs-server directed-request
enabled
```

This example shows how to display information for TACACS+ server groups:

```
switch# show tacacs-server groups
total number of groups:1

following TACACS+ server groups are configured:
group TacServer:
    server 10.10.2.2 on port 49
    deadtime is 0
    vrf is vrf3
```

This example shows how to display information for a specified TACACS+ server group:

```
switch# show tacacs-server groups TacServer
group TacServer:
    server 10.10.2.2 on port 49
    deadtime is 0
    vrf is vrf3
```

This example shows how to display sorted information for all TACACS+ servers:

```
switch# show tacacs-server sorted
Global TACACS+ shared secret:*****
timeout value:5
deadtime value:0
total number of servers:2

following TACACS+ servers are configured:
10.10.1.1:
    available on port:49
10.10.2.2:
    available on port:49
```

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This example shows how to display statistics for a specified TACACS+ servers:

```
switch# show tacacs-server statistics 10.10.2.2
Server is not monitored

Authentication Statistics
  failed transactions: 0
  successful transactions: 0
  requests sent: 0
  requests timed out: 0
  responses with no matching requests: 0
  responses not processed: 0
  responses containing errors: 0

Authorization Statistics
  failed transactions: 0
  successful transactions: 0
  requests sent: 0
  requests timed out: 0
  responses with no matching requests: 0
  responses not processed: 0
  responses containing errors: 0

Accounting Statistics
  failed transactions: 0
  successful transactions: 0
  requests sent: 0
  requests timed out: 0
  responses with no matching requests: 0
  responses not processed: 0
  responses containing errors: 0
```

Related Commands

Command	Description
show running-config tacacs+	Displays the TACACS+ information in the running configuration file.

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show telnet server

To display the Telnet server status for a virtual device context (VDC), use the **show telnet server** command.

show telnet server

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display the Telnet server status:

```
switch# show telnet server
telnet service enabled
```

Related Commands	Command	Description
	telnet server enable	Enables the Telnet server.

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show time-range

To display all time ranges or a specific time range, use the **show time-range** command.

```
show time-range [time-range-name]
```

Syntax Description	<i>time-range-name</i> (Optional) Name of a time range, which can be up to 64 alphanumeric, case-sensitive characters.
---------------------------	--

Defaults	None
-----------------	------

Command Modes	Any command mode
----------------------	------------------

SupportedUserRoles	network-admin network-operator vdc-admin vdc-operator
---------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	<p>The device shows all time ranges unless you use the <i>time-range-name</i> argument to specify a time range. If you do not specify a time-range name, the device lists time ranges alphabetically by the time-range names.</p> <p>The output of the show time-range command indicates whether a time range is active, which means that the current system time on the device falls within the configured time range.</p> <p>This command does not require a license.</p>
-------------------------	--

Examples	<p>This example shows how to use the show time-range command without specifying a time-range name on a device that has two time ranges configured, where one of the time ranges is inactive and the other is active:</p>
-----------------	---

```
switch(config-time-range)# show time-range

time-range entry: december (inactive)
  10 absolute start 0:00:00 1 December 2009 end 11:59:59 31 December 2009
time-range entry: november (active)
  10 absolute start 0:00:00 1 November 2009 end 23:59:59 30 November 2009
```

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Related Commands	Command	Description
	time-range	Configures a time range.
	permit (IPv4)	Configures a permit rule for an IPv4 ACL.
	permit (IPv6)	Configures a permit rule for an IPv6 ACL.
	permit (MAC)	Configures a permit rule for a MAC ACL.
	show access-lists	Displays all ACLs or a specific ACL.

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show user-account

To display information for the user accounts in a virtual device context (VDC), use the **show user-account** command.

show user-account

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display information for user accounts in the default virtual device context (VDC):

```
switch# show user-account
user:admin
    this user account has no expiry date
    roles:network-admin
user:adminbackup
    this user account has no expiry date
    roles:network-operator
```

This example shows how to display information for user accounts in a nondefault VDC:

```
switch-MyVDC# show user-account
user:admin
    this user account has no expiry date
    roles:vdc-admin
```

Related Commands

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Command	Description
telnet server enable	Enables the Telnet server.

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show users

To display the user session information for a virtual device context (VDC), use the **show users** command.

show users

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command does not require a license.

Examples This example shows how to display user session information in the default virtual device context (VDC):

```
switch# show users
NAME      LINE      TIME          IDLE          PID COMMENT
admin     pts/1     Mar 17 15:18  .             5477 (172.28.254.254)
admin     pts/9     Mar 19 11:19  .             23101 (10.82.234.56) *
```

This example shows how to display information for user accounts in a nondefault VDC:

```
switch-MyVDC# show users
admin     pts/10    Mar 19 12:54  .             30965 (10.82.234.56) *
```

Related Commands	Command	Description
	username	Configures user accounts.

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show vlan access-list

To display the contents of the IPv4 access control list (ACL), IPv6 ACL, or MAC ACL associated with a specific VLAN access map, use the **show vlan access-list** command.

show vlan access-list *access-list-name*

Syntax Description	<i>access-list-name</i>	Name of the VLAN access map, which can be up to 64 alphanumeric, case-sensitive characters.
---------------------------	-------------------------	---

Defaults	None
-----------------	------

Command Modes	Any command mode
----------------------	------------------

Supported User Roles	network-admin network-operator vdc-admin vdc-operator
-----------------------------	--

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines	This command does not require a license.
-------------------------	--

Examples This example shows how to use the **show vlan access-list** command to display the contents of the ACL that the VLAN access map named vacl-01 is configured to use:

```
switch# show vlan access-list vacl-01

IP access list ipv4acl
  5 deny ip 10.1.1.1/32 any
 10 permit ip any any
```

Related Commands	Command	Description
	vlan access-map	Configures an VLAN access map.
	show access-lists	Displays all ACLs or a specific ACL.
	show ip access-lists	Displays all IPv4 ACLs or a specific IPv4 ACL.
	show mac access-lists	Displays all MAC ACLs or a specific MAC ACL.
	show vlan access-map	Displays all VLAN access maps or a specific VLAN access map.

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show vlan access-map

To display all VLAN access maps or a VLAN access map, use the **show vlan access-map** command.

```
show vlan access-map map-name
```

Syntax Description	<i>map-name</i>	VLAN access map, which can be up to 64 alphanumeric, case-sensitive characters.
---------------------------	-----------------	---

Defaults	None
-----------------	------

Command Modes	Any command mode
----------------------	------------------

Supported User Roles	network-admin network-operator vdc-admin vdc-operator
-----------------------------	--

Command History	Release	Modification
	4.2(1)	Command output is sorted alphabetically by the ACL names.
	4.0(1)	This command was introduced.

Usage Guidelines	<p>The device shows all VLAN access maps, unless you use the <i>map-name</i> argument to specify an access map.</p> <p>If you do not specify an access-map name, the device lists VLAN access maps alphabetically by access-map name.</p> <p>For each VLAN access map displayed, the device shows the access-map name, the ACL specified by the match command, and the action specified by the action command.</p> <p>Use the show vlan filter command to see which VLANs have a VLAN access map applied to them.</p> <p>This command does not require a license.</p>
-------------------------	--

Examples	<p>This example shows how to remove dynamically learned, secure MAC addresses from the Ethernet 2/1 interface:</p> <pre>switch# show vlan access-map Vlan access-map austin-vlan-map match ip: austin-corp-acl action: forward</pre>
-----------------	--

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Related Commands	Command	Description
	action	Specifies an action for traffic filtering in a VLAN access map.
	match	Specifies an ACL for traffic filtering in a VLAN access map.
	show vlan filter	Displays information about how a VLAN access map is applied.
	vlan access-map	Configures a VLAN access map.
	vlan filter	Applies a VLAN access map to one or more VLANs.

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show vlan filter

To display information about instances of the **vlan filter** command, including the VLAN access-map and the VLAN IDs affected by the command, use the **show vlan filter** command.

```
show vlan filter [access-map map-name | vlan vlan-ID]
```

Syntax Description	
access-map <i>map-name</i>	(Optional) Limits the output to VLANs that the specified access map is applied to.
vlan <i>vlan-ID</i>	(Optional) Limits the output to access maps that are applied to the specified VLAN only. Valid VLAN IDs are from 1 to 4096.

Defaults
The device shows all instances of VLAN access maps applied to a VLAN, unless you use the **access-map** keyword and specify an access map, or you use the **vlan** keyword and specify a VLAN ID.

Command Modes
Any command mode

Supported User Roles
network-admin
network-operator
vdc-admin
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines
This command does not require a license.

Examples
This example shows how to display all VLAN access map information on a device that has only one VLAN access map applied (austin-vlan-map) to VLANs 20 through 35 and 42 through 80:

```
switch# show vlan filter

vlan map austin-vlan-map:
    Configured on VLANs:    20-35, 42-80
```

Related Commands	Command	Description
	action	Specifies an action for traffic filtering in a VLAN access map.
	match	Specifies an ACL for traffic filtering in a VLAN access map.
	show vlan access-map	Displays all VLAN access maps or a VLAN access map.

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Command	Description
vlan access-map	Configures a VLAN access map.
vlan filter	Applies a VLAN access map to one or more VLANs.