Show Commands

This chapter describes the Cisco NX-OS virtual port channel (vPC) **show** commands.

show ip arp vpc-statistics

To display the global statistics for the Address Resolution Protocol (ARP) on a virtual port channel (vPC), use the **show ip arp vpc-statistics** command.

show ip arp vpc-statistics

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.1(3)N1(1)	This command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to display the global ARP statistics on vPCs:

```
switch# show ip arp vpc-statistics
ARP sync Enabled

ARP vPC global statistics
MCECM api failed while processing CFS payload : 2980
switch#
```

Related Commands

Command	Description
ip arp synchronize	Enables ARP synchronization on a vPC domain.
show running-config vpc	Displays the running configuration information for vPCs.

show port-profile

To display the port profiles configured on a switch, use the **show port-profile** command.

show port-profile

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Usage Guidelines

Use this command to view the configuration information of the port profiles configured on the switch and the interfaces that inherited the port profiles.

Examples

This example shows how to display the port profiles configured on the switch:

```
switch# show port-profile

port-profile p1
 type: Ethernet
 description:
 status: enabled
 max-ports: 512
 inherit:
 config attributes:
  ip port access-group denyv4 in
 evaluated config attributes:
  ip port access-group denyv4 in
 assigned interfaces:

port-profile ppEth
 type: Ethernet
 description: Port profile to configure batch commands for Ethernet interfaces
 status: enabled
 max-ports: 512
 inherit:
  pp
 config attributes:
 evaluated config attributes:
  switchport mode trunk
  switchport trunk allowed vlan 300-800
  flowcontrol receive on
 assigned interfaces:
  Ethernet198/1/11
```

```
switch#
```

Table 1 describes the fields shown in the display.

Table 1 show port-profile Field Descriptions

Field	Description
type	The type of interface that the port profile represents. The value can be Ethernet, Interface-vlan, or Port-channel.
description	The summary purpose of the port profile.
status	The state of the port profile, enabled or disabled.
max-ports	The maximum number of ports on which this profile can be inherited. The default is 512.
inherit	The name of the port profile that this port profile inherited. This field is blank if the port profile does not inherit another port profile.
config attributes	The configuration commands of the port profile.
evaluated config attributes	The verified configuration commands of this port profile and the inherited commands from the other port profile.
assigned interfaces	The interfaces that inherits this port profile.

Related Commands

Command	Description
copy running-config startup-config	Copies the running configuration to the startup configuration.
inherit	Attaches a port profile to an interface.
show port-profile name	Displays information about the specific port profile.
show running-config port-profile	Displays the running configuration for the port profile.

show port-profile brief

To display brief information about the port profiles configured on a switch, use the **show port-profile brief** command.

show port-profile brief

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Usage Guidelines

Use this command to view the number of interfaces that inherited the port profile, the number of child port profiles, and the number of commands configured in, or inherited to, a port profile.

Examples

This example shows how to display brief information about the port profiles configured on the switch:

```
switch# show port-profile brief
------------------------------------------------------------
Port                Profile  Conf   Eval   Assigned  Child
Profile              State   Items  Items  Intfs     Profs
------------------------------------------------------------
ppEth               1        3      3      1         1
p1                  1        1      1      0         0
switch#
```

Table 2 describes the fields shown in the display:

Table 2 show port-profile brief Field Descriptions

Field	Description
Port Profile	The name of the port profile.
Profile State	The state of the port profile. The value 1 represents the profile is enabled, and 0 represents a disabled state.
Conf Items	The number of commands configured in the port profile.
Eval Items	The number of commands configured in the port profile or inherited from another port profile.
Assigned Intfs	The interfaces assigned to the port profile.
Child Profs	The number of port profiles inherited by this port profile.

Related Commands

Command	Description
copy running-config startup-config	Copies the running configuration to the startup configuration.
show port-profile	Displays information about all configured port profiles.
show port-profile name	Displays information about a specific port profile.
show running-config port-profile	Displays the running configuration for the port profile.

show port-profile expand-interface

To display the active port profile configurations that are applied to an interface, use the **show port-profile expand-interface** command.

show port-profile expand-interface [*pp-profile-name*]

Syntax Description

pp-profile-name	(Optional) Name of the port profile. The name can be a maximum of 80 alphanumeric characters and can include an underscore and hyphen. The name cannot contain spaces or special characters.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Usage Guidelines

Use this command to view the port profile configuration that is applied to an interface.

Examples

This example shows how to display the port profile configurations applied to the assigned interfaces:

```
switch# show port-profile expand-interface

port-profile ppEth
 Ethernet198/1/11
  switchport mode trunk
  switchport trunk allowed vlan 300-800
  flowcontrol receive on

port-profile p1

port-profile pp

switch#
```

This example shows how to display a specific port profile configuration assigned to an interface:

```
switch# show port-profile expand-interface name ppEth

port-profile ppEth
 Ethernet198/1/11
  switchport mode trunk
  switchport trunk allowed vlan 300-800
  flowcontrol receive on

switch#
```

Related Commands

Command	Description
copy running-config startup-config	Copies the running configuration to the startup configuration.
show port-profile	Displays information about all configured port profiles.
show running-config port-profile	Displays the running configuration for the port profile.

show port-profile name

To display the configuration information of specific port profiles, use the **show port-profile name** command.

show port-profile name *pp-profile-name*

Syntax Description

pp-profile-name	Name of the port profile. The name can be a maximum of 80 alphanumeric characters and can include an underscore and hyphen. The name cannot contain spaces or special characters.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the configuration information of a port profile named ppEth:

```
switch# show port-profile name ppEth

port-profile ppEth
 type: Ethernet
 description: Port profile to configure batch commands for Ethernet interfaces
 status: enabled
 max-ports: 512
 inherit:
  pp
 config attributes:
 evaluated config attributes:
  switchport mode trunk
  switchport trunk allowed vlan 300-800
  flowcontrol receive on
 assigned interfaces:
  Ethernet198/1/11

switch#
```

Table 3 describes the fields shown in the display:

Table 3 show port-profile Field Descriptions

Field	Description
type	The type of interface that the port profile represents. The value can be Ethernet, Interface-vlan, or Port-channel.
description	The summary purpose of the port profile.

Table 3 show port-profile Field Descriptions (continued)

Field	Description
status	The state of the port profile, enabled or disabled.
max-ports	The maximum number of ports on which this profile can be inherited. The default is 512.
inherit	The name of the port profile that this port profile inherited. This field is blank if the port profile does not inherit another port profile.
config attributes	The configuration commands of the port profile.
evaluated config attributes	The verified configuration commands of this port profile and the inherited commands from the other port profile.
assigned interfaces	The interfaces that inherits this port profile.

Related Commands

Command	Description
copy running-config startup-config	Copies the running configuration to the startup configuration.
inherit	Attaches a port profile to an interface.
show port-profile	Displays information about all port profiles.
show running-config port-profile	Displays the running configuration for the port profile.

show port-profile usage

To display the list of interfaces that inherited a port profile, use the **show port-profile usage** command.

show port-profile usage [*pp-profile-name*]

Syntax Description

pp-profile-name	(Optional) Name of the port profile. The name can be a maximum of 80 alphanumeric characters and can include an underscore and hyphen. The name cannot contain spaces or special characters.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the assigned interfaces for port profiles configured on the switch:

```
switch# show port-profile usage

port-profile eth
 Ethernet198/1/11

port-profile p1

port-profile pp

switch#
```

This example shows how to display the interfaces attached to a port profile named ppEth:

```
switch# show port-profile usage name ppEth

port-profile ppEth
 Ethernet198/1/11

switch#
```

Related Commands

Command	Description
copy running-config startup-config	Copies the running configuration to the startup configuration.
show port-profile	Displays information about all configured port profiles.

Command	Description
show running-config port-profile	Displays the running configuration for port profiles.
show startup-config port-profile	Displays the startup configuration for port profiles.

show running-config expand-port-profile

To display the detailed running configuration for a port profile, use the **show running-config expand expand-port-profile** command.

show running-config expand-port-profile

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the running configuration for an expanded port profile:

```
switch# show running-config expand-port-profile

!Command: show running-config expand-port-profile
!Time: Wed Sep  8 09:19:41 2010

version 5.0(2)N1(1)
feature fcoe

feature telnet
feature tacacs+
cfs ipv4 distribute
cfs eth distribute
feature udld
feature interface-vlan
feature lacp
feature dhcp
feature vpc
feature lldp
feature vtp
feature fex

username admin password 5 $1$wmFN7Wly$/pjqx1DfAkCCAg/KyxbUz/  role network-admin
username install password 5 !  role network-admin
username praveena password 5 !  role network-operator
no password strength-check
ip domain-lookup
ip domain-lookup
tacacs-server host 192.0.131.54 key 7 "wawy1234"
tacacs-server host 192.0.131.37
tacacs-server host 192.0.131.37 test username user1
:
<--Snip-->
:
```

```
vpc domain 1000
  role priority 65534
  system-mac 00:23:04:ee:c1:e8
  peer-keepalive destination 192.0.10.2 source 192.0.10.3 vrf default
port-profile type interface-vlan ppVlan
  bandwidth 30000000
  mtu 3000
  description Sample port-profile for VLAN interfaces
port-profile type ethernet eth
  switchport mode trunk
  switchport trunk allowed vlan 300-800
  flowcontrol receive on
  state enabled
port-profile type port-channel ppPO
  delay 5000000
  load-interval counter 1 30
  switchport mode trunk
  description Sample port profile for Port Channel interface
  state enabled
port-profile type ethernet ppEth
  inherit port-profile eth
  switchport mode trunk
  switchport trunk allowed vlan 300-400
  speed 10000
  bandwidth 1000000
  description Sample port profile for Ethernet interfaces
  state enabled


interface Vlan1

:
<--snip-->
:
mac address-table notification threshold limit 99 interval 60
interface fc2/1
interface fc2/2
interface fc2/3
interface fc2/4
logging server 192.0.20.101
logging server 192.0.20.102
logging timestamp milliseconds
no logging console


switch#
```

Related Commands

Command	Description
port-profile	Configures a port profile.
show port-profile	Displays the port profile information.
show running-config port-profile	Displays the running configuration with port profile configurations.

show running-config port-profile

To display the running configuration of a port profile, use the **show running-config port-profile** command.

show running-config port-profile [*pp-profile-name*]

Syntax Description

pp-profile-name	Name of the port profile. The name can be a maximum of 80 alphanumeric characters and can include an underscore and hyphen. The name cannot contain spaces or special characters.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the running configuration of all port profiles that are configured on the switch:

```
switch# show running-config port-profile

!Command: show running-config port-profile
!Time: Mon Sep  6 07:31:24 2010

version 5.0(2)N1(1)
port-profile type interface-vlan ppVlan
  bandwidth 30000000
  mtu 3000
  description Sample port-profile for VLAN interfaces
port-profile type ethernet eth
  switchport mode trunk
  switchport trunk allowed vlan 300-800
  flowcontrol receive on
  state enabled
port-profile type port-channel ppPO
  delay 5000000
  load-interval counter 1 30
  switchport mode trunk
  description Sample port profile for Port Channel interface
  state enabled
port-profile type ethernet ppEth
  inherit port-profile eth
  switchport mode trunk
  switchport trunk allowed vlan 300-400
  speed 10000
  bandwidth 1000000
  description Sample port profile for Ethernet interfaces
  state enabled
```

```
switch#
```

This example shows how to display the running configuration of a port profile named ppEth that is configured on the switch:

```
switch# show running-config port-profile ppEth

!Command: show running-config port-profile ppEth
!Time: Mon Sep  6 07:32:10 2010

version 5.0(2)N1(1)
port-profile type ethernet ppEth
  inherit port-profile eth
  switchport mode trunk
  switchport trunk allowed vlan 300-400
  speed 10000
  bandwidth 1000000
  description Sample port profile for Ethernet interfaces
  state enabled


switch#
```

Related Commands

Command	Description
port-profile	Configures a port profile.
show port-profile	Displays the configuration information of port profiles.
show startup-config switch-profile	Displays the startup configuration information for the switch profile.

show running-config switch-profile

To display the running configuration of a switch profile, use the **show running-config switch-profile** command.

show running-config switch-profile

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the running configuration of a switch profile named s5010 configured on switch 1 of the peer:

```
switch# show running-config switch-profile
switch-profile s5010
  sync-peers destination 192.0.120.3
  interface Ethernet1/1
    switchport mode trunk
    speed 1000

switch#
```

Related Commands

Command	Description
switch-profile	Configures a switch profile.
show startup-config switch-profile	Displays the startup configuration information for the switch profile.

show running-config vpc

To display the running configuration information for virtual port channels (vPCs), use the **show running-config vpc** command.

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

Syntax Description[

all	(Optional) Displays configured and default information.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.1(3)N1(1)	This command was introduced.

Examples

This example shows how to display the running configuration for a vPC on a switch that runs Cisco NX-OS Release 4.1(2):

```
switch (config)# show running-config vpc
version 4.1(2)
feature vpc
vpc domain 2
  role priority 1
  system-priority 32667
  peer-keepalive destination 192.0.76.52 source 192.0.76.51 udp-port 3200 vrf ma
engagement interval 1000 timeout 5


interface port-channel10
  vpc 20

interface port-channel101
  vpc 101

interface port-channel200
  vpc peer-link

interface port-channel201
  vpc 201
```

This example shows how to display the running configuration for a vPC on a switch that runs Cisco NX-OS Release 4.2(1):

```
switch# show running-config vpc

!Command: show running-config vpc
!Time: Wed Mar 31 06:11:52 2010

version 4.2(1)N1(1)
```

```
feature vpc

vpc domain 1000
  role priority 2000
  peer-keepalive destination 192.0.183.52 source 192.0.76.51 vrf management
  peer-config-check-bypass


interface port-channel1
  vpc peer-link

interface port-channel3
  vpc 4096

interface port-channel5
  vpc 4001

interface port-channel12
  vpc 4000

interface port-channel24
  vpc 2000

interface port-channel41
  vpc 41

interface port-channel48
  vpc 48

--More--
switch#
```

This example shows how to display the vPC reload configuration on a switch that runs Cisco NX-OS Release 5.0(2)N1(1):

```
switch# show running-config vpc


!Command: show running-config vpc
!Time: Wed Oct 27 21:24:24 2010

version 5.0(2)N1(1)
feature vpc

vpc domain 10
  peer-keepalive destination 192.0.1.48
  reload restore

--More--
<--output truncated>
switch#
```

This example shows how to display the vPC automatic recovery configuration on a switch that runs Cisco NX-OS Release 5.0(2)N2(1):

```
switch# show running-config vpc

!Command: show running-config vpc
!Time: Fri Dec 10 04:13:57 2010

version 5.0(2)N2(1)
feature vpc
```

```
vpc domain 100
  peer-keepalive destination 192.0.51.138
  auto-recovery reload-delay 300

interface port-channel1
  vpc 1

interface port-channel100
  vpc peer-link

switch#
```

Related Commands

Command	Description
show vpc brief	Displays information about vPCs. If the feature is not enabled, this command returns an error.

show startup-config interface

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

show startup-config interface [**ethernet** *slot/port* | **expand-port-profile** | **loopback** *number* | **mgmt 0** | **port-channel** {*channel-number*} [**membership**] | **tunnel** *number* | {**vlan** *vlan-id*}

Syntax Description

ethernet *slot/port*	(Optional) Displays the number of the module and port number. The *slot* number is from 1 to 255, and the *port* number is from 1 to 128.
expand-port-profile	Displays the port profiles.
loopback *number*	Displays the number of the loopback interface. The range of values is from 1 to 4096.
mgmt 0	Displays the configuration information of the management interface.
port-channel *channel-number*	Displays the number of the port-channel group. The range of values is from 0 to 1023.
membership	(Optional) Displays the membership of the specified port channel.
tunnel *number*	Displays the number of the tunnel interface. The range of values is from 0 to 65535.
vlan *vlan-id*	Displays the number of the VLAN. The range of values is from 1 to 4096.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.1(3)N1(1)	This command was introduced.

Examples

This example shows how to display the information in the startup configuration for the interface Ethernet 7/1:

```
switch(config)# show startup-config interface ethernet 7/1
version 4.1(2)

interface Ethernet7/1
  ip pim sparse-mode
switch(config)#
```

Related Commands

Command	Description
show interface	Displays information about the specified interface.

show startup-config port-profile

To display the startup configuration of port profiles, use the **show startup-config port-profile** command.

show startup-config switch-profile [*pp-profile-name*]

Syntax Description

pp-profile-name	(Optional) Name of the port profile. The name can be a maximum of 80 alphanumeric characters and can include an underscore and hyphen. The name cannot contain spaces or special characters.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the configuration information of all port profiles stored in the startup configuration file:

```
switch# show startup-config switch-profile

!Command: show startup-config port-profile
!Time: Mon Sep  6 07:32:48 2010
!Startup config saved at: Mon Sep  6 07:29:19 2010

version 5.0(2)N1(1)
port-profile type interface-vlan ppVlan
  bandwidth 30000000
  mtu 3000
  description Sample port-profile for VLAN interfaces
port-profile type ethernet eth
  switchport mode trunk
  switchport trunk allowed vlan 300-800
  flowcontrol receive on
  state enabled
port-profile type port-channel ppPO
  delay 5000000
  load-interval counter 1 30
  switchport mode trunk
  description Sample port profile for Port Channel interface
  state enabled
port-profile type ethernet ppEth
  inherit port-profile eth
  switchport mode trunk
  switchport trunk allowed vlan 300-400
  speed 10000
  bandwidth 1000000
  description Sample port profile for Ethernet interfaces
```

```
  state enabled


switch#
```

This example shows how to display the startup configuration of a port profile named ppPO that is configured for port channel interfaces on the switch:

```
switch# show startup-config port-profile ppPO

!Command: show startup-config port-profile ppPO
!Time: Mon Sep  6 07:34:31 2010
!Startup config saved at: Mon Sep  6 07:29:19 2010

version 5.0(2)N1(1)
port-profile type port-channel ppPO
  delay 5000000
  load-interval counter 1 30
  switchport mode trunk
  description Sample port profile for Port Channel interface
  state enabled


switch#
```

This example shows how to display the startup configuration of a port profile named ppEth that is configured for Ethernet interfaces on the switch:

```
switch# show startup-config port-profile ppEth

!Command: show startup-config port-profile ppEth
!Time: Mon Sep  6 07:35:44 2010
!Startup config saved at: Mon Sep  6 07:29:19 2010

version 5.0(2)N1(1)
port-profile type ethernet ppEth
  inherit port-profile eth
  switchport mode trunk
  switchport trunk allowed vlan 300-400
  speed 10000
  bandwidth 1000000
  description Sample port profile for Ethernet interfaces
  state enabled


switch#
```

Related Commands

Command	Description
copy running-config startup-config	Copies the running configuration to the startup configuration.
show running-config switch-profile	Displays the running configuration information for a switch profile.

show startup-config switch-profile

To display the startup configuration of a switch profile, use the **show startup-config switch-profile** command.

show startup-config switch-profile

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the startup configuration of a switch profile named s5010 that is configured on switch 1 of the peer:

```
switch# show running-config switch-profile
switch-profile s5010
  sync-peers destination 192.0.120.3

  interface Ethernet101/1/35
    switchport mode trunk
    switchport trunk native vlan 300
    switchport trunk allowed vlan 300-800
switch#
```

Related Commands

Command	Description
copy running-config startup-config	Copies the running configuration to the startup configuration.
switch-profile	Configures a switch profile.
show running-config switch-profile	Displays the running configuration information for a switch profile.

show startup-config vpc

To display virtual port channel (vPC) configuration information in the startup configuration, use the **show startup-config vpc** command.

show startup-config vpc [**all**]

Syntax Description

all	(Optional) Displays startup-configuration information for all vPCs.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.1(3)N1(1)	This command was introduced.

Examples

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

```
switch(config)# show startup-config vpc
version 4.1(2)
feature vpc
vpc domain 1


interface port-channel10
  vpc peer-link

interface port-channel20
  vpc 100
switch(config)#
```

Related Commands

Command	Description
show vpc brief	Displays information about vPCs. If the feature is not enabled, the system displays an error when you enter this command.

show switch-profile

To display the switch profile configured on the switch, use the **show switch-profile** command.

show switch-profile

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the switch profile that is configured on switch 1 of the peer:

```
switch# show switch-profile
-----------------------------------------------------
Profile-name                          Config-revision
-----------------------------------------------------
s5010                                               1

switch#
```

Table 4 describes the fields shown in the display:

Table 4 show switch-profile Field Descriptions

Field	Description
Profile-name	The name of the switch profile.
Config-revision	The revision of the switch profile configuration. The revision number is used to synchronize the configuration in the peer switch. See the **commit** command for more information.

Related Commands

Command	Description
commit	Commits a switch profile configuration.
switch-profile	Configures a switch profile.
show switch-profile status	Displays the status of the switch profile.

show switch-profile buffer

To display the switch profile buffer, use the **show switch-profile buffer** command.

show switch-profile *sw-profile-name* **buffer**

Syntax Description

sw-profile-name	Name of the switch profile. The name is case sensitive, can be a maximum of 64 alphanumeric characters and can include an underscore, and hyphen. The name cannot contain spaces or special characters.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the buffer for the switch profile named s5010:

```
switch# show switch-profile s5010 buffer
----------------------------------------------------------
Seq-no  Command
----------------------------------------------------------
1       interface ethernet 1/1
1.1       switchport mode trunk
1.2       speed 1000
2       interface port-channel 102
2.1       vpc 1
2.2       switchport mode trunk

switch#
```

Table 5 describes the fields shown in the display:

Table 5 show switch-profile buffer Field Descriptions

Field	Description
Seq-no	The sequence number or order of entry of the command in the switch profile buffer.
Command	The command used for configuring the switch profile.

Related Commands

Command	Description
command (switch profile)	Adds commands to a switch profile.
import	Imports commands to a switch profile.

Command	Description
switch-profile	Configures a switch profile.
show switch-profile status	Displays the status of the switch profile.

show switch-profile peer

To display information about the destination peer switch in a switch profile configuration, use the **show switch-profile peer** command.

show switch-profile *sw-profile-name* **peer** *ip-address*

Syntax Description

sw-profile-name	Name of the switch profile. The name is case sensitive, can be a maximum of 64 alphanumeric characters and can include an underscore and hyphen. The name cannot contain spaces or special characters.
ip-address	IPv4 address of the destination peer switch in the format *A.B.C.D*.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the information about a destination peer switch with IPv4 address 192.168.120.3 added to the switch profile named s5010 on switch 1 of the peer:

```
switch# show switch-profile s5010 peer 192.168.120.3
Peer-sync-status           : Not yet merged. pending-merge:1 received_merge:0
Peer-status                : Peer not reachable
Peer-error(s)              :
switch#
```

This example shows how to display the successful commit information about a destination peer switch with IPv4 address 192.168.120.3 for the switch profile named s5010 on switch 1 of the peer:

```
switch1# show switch-profile sp peer 192.168.120.3
Peer-sync-status : In Sync.
Peer-status : Commit Success
Peer-error(s) :
switch1#
```

Table 6 describes the fields shown in the display.

Table 6 show switch-profile peer Field Descriptions

Field	Description
Peer-sync-status	The status of the synchronized configuration in the peer switch as follows: • In Sync—The configuration on both switches are synchronized. • Not yet merged. pending-merge:1 received_merge:0—The configuration in the local switch is not yet merged with the peer switch.
Peer-status	The status of the peer switch during a configuration synchronization, whether reachable or not reachable, successfully verified or committed.
Peer-error(s)	The reason for the failure in connecting to the peer switch.

Related Commands

Command	Description
show switch-profile status	Displays the status of the switch profile.
switch-profile	Configures a switch profile.
sync-peers destination	Configures the peer switch for configuration synchronization.

show switch-profile session-history

To display the session history of the switch profile configuration, use the **show switch-profile session-history** command.

show switch-profile *sw-profile-name* **session-history**

Syntax Description

sw-profile-name	Name of the switch profile. The name is case sensitive, can be a maximum of 64 alphanumeric characters and can include an underscore and hyphen. The name cannot contain spaces or special characters.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the session history of the switch profile named s5010 on switch 1 of the peer:

```
switch# show switch-profile s5010 session-history

Start-time: 959269 usecs after Fri Aug 13 06:16:29 2010
End-time: 961304 usecs after Fri Aug 13 06:16:29 2010

Profile-Revision: 1
Session-type: Initial-Exchange
Peer-triggered: No
Profile-status: -

Local information:
----------------
Status: -
Error(s):

Peer information:
----------------
IP-address: 192.168.120.3
Pending-merge: 1
Received-merge: 0
Sync-status: Not yet merged. pending-merge:1 received-merge:0
Status: Peer not reachable
Error(s):

Start-time: 794606 usecs after Fri Aug 13 06:16:40 2010
End-time: 796861 usecs after Fri Aug 13 06:16:40 2010

Profile-Revision: 1
Session-type: Peer-delete
```

```
Peer-triggered: No
Profile-status: Sync Success

Local information:
----------------
Status: Verify Success
Error(s):

switch#
```

Table 7 describes the fields shown in the display:

Table 7 show switch-profile session-history Field Descriptions

Field	Description
Start-time	The start time of the configuration session in the format *nn* usecs after *Day-of-week Month Date hh*:*mm*:*ss Year*, where usecs represents microseconds. For example, 265561 usecs after Fri Aug 13 06:21:30 2010
End-time	The end time of the configuration session in the format *nn* usecs after *Day-of-week Month Date hh*:*mm*:*ss Year*, where usecs represents microseconds.
Profile-Revision	The number of times the switch profile configuration has been revised.
Session-type	The action taken on the switch profile configuration; for example, Initial-Exchange, Commit, Peer-Delete.
Peer-triggered	The status of receiving the peer reachable notification.
Profile-status	The status of the configuration synchronization.
Local information	The information about the local switch profile.
Status	The status of the configuration synchronization action in the local switch.
Error(s)	The reason for the errors that appear while synchronizing the configuration in the local switch.
Peer information	The information about the peer switch profile.
IP-address	The IPv4 address of the destination peer switch.
Pending-merge	The latest configuration revision number in the local switch that is to be merged with the configuration in the peer switch.
Received-merge	The configuration revision received from the local switch to synchronize with the peer switch.
Sync-status	The status of the synchronized configuration in the peer switch as follows: • In Sync—The configuration on the peer switch is synchronized with the configurations of the local switch. • Not yet merged. pending-merge:1 received_merge:0—The configuration in the local switch is not yet merged with the peer switch.

Table 7 show switch-profile session-history Field Descriptions (continued)

Field	Description
Status	The status of the peer switch, such as the connectivity, or command execution status.
Error(s)	The reason for the errors that appear while synchronizing the configuration in the peer switch.

Related Commands

Command	Description
show switch-profile	Displays the switch profile and configuration revisions.
show switch-profile status	Displays the status of the switch profile.
switch-profile	Configures a switch profile.

show switch-profile status

To display the switch profile configuration status, use the **show switch-profile** command.

show switch-profile *sw-profile-name* **status**

Syntax Description

sw-profile-name	Name of the switch profile. The name is case sensitive, can be a maximum of 64 alphanumeric characters and can include an underscore and hyphen. The name cannot contain spaces or special characters.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

Examples

This example shows how to display the status of the switch profile named s5010 on switch 1 of the peer:

```
switch# show switch-profile s5010 status

Start-time: 794606 usecs after Fri Aug 13 06:16:40 2010
End-time: 796861 usecs after Fri Aug 13 06:16:40 2010

Profile-Revision: 3
Session-type: Commit
Peer-triggered: Yes
Profile-status: Sync Success

Local information:
----------------
Status: Commit Success
Error(s):

Peer information:
----------------
IP-address: 192.168.120.3
Sync-status: In Sync.
Status: Commit Success
Error(s):

switch#
```

Table 8 describes the fields shown in the display:

Table 8 show switch-profile status Field Descriptions

Field	Description
Start-time	The start time of the configuration session in the format *nn* usecs after *Day-of-week Month Date hh*:*mm*:*ss Year*, where usecs represents microseconds. For example, 265561 usecs after Fri Aug 13 06:21:30 2010
End-time	The end time of the configuration session in the format *nn* usecs after *Day-of-week Month Date hh*:*mm*:*ss Year*, where usecs represents microseconds.
Profile-Revision	The number of times the switch profile configuration has been revised.
Session-type	The action taken on the switch profile configuration; for example, Commit, Peer-Delete.
Peer-triggered	The status of receiving the peer reachable notification.
Profile-status	The status of the configuration synchronization.
Local information	The information about the local switch profile.
Status	The status of the configuration synchronization action in the local switch.
Error(s)	The reason for the errors that appear while synchronizing the configuration in the local switch.
Peer information	The information about the peer switch profile.
IP-address	The IPv4 address of the destination peer switch.
Sync-status	The status of the synchronized configuration in the peer switch. • In Sync—The configuration on the peer switch is synchronized with the configurations of the local switch. • Not yet merged. pending-merge:1 received_merge:0—The configuration in the local switch is not yet merged with the peer switch.
Status	The status of the configuration synchronization action in the peer switch.
Error(s)	The reason for the errors that appear while synchronizing the configuration in the peer switch.

Related Commands

Command	Description
show switch-profile	Displays the switch profile and configuration revisions.
switch-profile	Configures a switch profile.

show tech-support vpc

To display troubleshooting information about the virtual port channel (vPC), use the **show tech-support vpc** command.

show tech-support vpc

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
4.2(1)N1(1)	This command was introduced.

Examples

This example shows how to display the vPC troubleshooting information:

```
switch# show tech-support vpc
`show version`
Cisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2010, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained herein are owned by
other third parties and are used and distributed under license.
Some parts of this software are covered under the GNU Public
License. A copy of the license is available at
http://www.gnu.org/licenses/gpl.html.

Software
  BIOS:      version 1.3.0
  loader:    version N/A
  kickstart: version 4.2(1)N1(1) [build 4.2(1)N1(0.329)]
  system:    version 4.2(1)N1(1) [build 4.2(1)N1(0.329)]
  power-seq: version v1.2
  BIOS compile time:       09/08/09
  kickstart image file is: bootflash:/n5000-uk9-kickstart.4.2.1.N1.latest.bin
  kickstart compile time:  4/18/2010 8:00:00 [04/18/2010 15:03:44]
  system image file is:    bootflash:/n5000-uk9.4.2.1.N1.latest.bin
  system compile time:     4/18/2010 8:00:00 [04/18/2010 16:08:18]


Hardware
  cisco Nexus5020 Chassis ("40x10GE/Supervisor")
  Intel(R) Celeron(R) M CPU    with 2074284 kB of memory.
  Processor Board ID JAF1413ADCS

  Device name: d14-switch-2
  bootflash:    1003520 kB

Kernel uptime is 0 day(s), 2 hour(s), 25 minute(s), 26 second(s)
```

```
Last reset at 414529 usecs after  Mon Apr 19 05:59:19 2010

  Reason: Disruptive upgrade
  System version: 4.2(1u)N1(1u)
  Service:

plugin
  Core Plugin, Ethernet Plugin, Fc Plugin
`show module`
Mod Ports  Module-Type                       Model                  Status
--- -----  -------------------------------- ---------------------- ------------
1    40     40x10GE/Supervisor               N5K-C5020P-BF-SUP      active *
2    8      8x1/2/4G FC Module               N5K-M1008              ok
3    6      6x10GE Ethernet Module           N5K-M1600              ok

Mod  Sw              Hw      World-Wide-Name(s) (WWN)
---  --------------  ------  --------------------------------------------------
1    4.2(1)N1(1)     1.3     --
2    4.2(1)N1(1)     0.200   20:41:00:05:9b:78:6e:40 to 20:48:00:05:9b:78:6e:40
3    4.2(1)N1(1)     0.100   --

Mod  MAC-Address(es)                         Serial-Num
---  --------------------------------------  ----------
1    0005.9b78.6e48 to 0005.9b78.6e6f         JAF1413ADCS
2    0005.9b78.6e70 to 0005.9b78.6e77         JAB1228016M
3    0005.9b78.6e78 to 0005.9b78.6e7f         JAB12310214
`show vpc brief`
Legend:
                (*) - local vPC is down, forwarding via vPC peer-link

vPC domain id                     : 1000
Peer status                       : peer adjacency formed ok
vPC keep-alive status             : peer is alive
Configuration consistency status: success
vPC role                          : secondary
Number of vPCs configured         : 150
Peer Gateway                      : Disabled
Dual-active excluded VLANs        : -

vPC Peer-link status
---------------------------------------------------------------------
id   Port   Status Active vlans
--   ----   ------ --------------------------------------------------
1    Po1    up     1-330,335,338-447,1000-1023,2000-2018

vPC status
----------------------------------------------------------------------------
id     Port        Status Consistency Reason                     Active vlans
------ ----------- ------ ----------- -------------------------- -----------
41     Po41        down*  failed      Consistency Check Not      -
                                      Performed
48     Po48        down*  failed      Consistency Check Not      -
                                      Performed
2000   Po24        down   success     success                    -
4000   Po12        down   success     success                    -
4001   Po5         down   success     success                    -
4096   Po3         down   success     success                    -
101376 Eth100/1/1  down*  failed      Consistency Check Not      -
                                      Performed
101377 Eth100/1/2  down*  failed      Consistency Check Not      -
                                      Performed
101378 Eth100/1/3  down*  failed      Consistency Check Not      -
                                      Performed
```

```
101379 Eth100/1/4  down*  failed      Consistency Check Not      -
                                      Performed
101380 Eth100/1/5  down*  failed      Consistency Check Not      -
--More--
switch#
```

Related Commands

Command	Description
show vpc brief	Displays information about vPCs. If the feature is not enabled, the system displays an error when you enter this command.

show version

To display information about the software and hardware version, use the **show version** command.

show version

Syntax Description

This command has no arguments or keywords.

Command Default

All version information

Command Modes

EXEC mode

Command History

Release	Modification
4.0(0)N1(1a)	This command was introduced.

Examples

This example shows how to display the version information of a switch that runs Cisco NX-OS Release 4.2(1)N1(1):

```
switch# show version
Cisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2010, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained herein are owned by
other third parties and are used and distributed under license.
Some parts of this software are covered under the GNU Public
License. A copy of the license is available at
http://www.gnu.org/licenses/gpl.html.

Software
  BIOS:      version 1.3.0 [last: ]
  loader:    version N/A
  kickstart: version 4.2(1u)N1(1u) [build 4.2(1)N1(0.328)]
  system:    version 4.2(1u)N1(1u) [build 4.2(1)N1(0.328)]
  power-seq: version v1.2
  BIOS compile time:       09/08/09 [last: ]
  kickstart image file is: bootflash:///n5000-uk9-kickstart.4.2.1.N1.latest.bin.
upg
  kickstart compile time:  12/25/2020 12:00:00 [04/17/2010 15:06:29]
  system image file is:    bootflash:/n5000-uk9.4.2.1.N1.latest.bin.upg
  system compile time:     12/25/2020 12:00:00 [04/17/2010 16:11:29]


Hardware
  cisco Nexus5020 Chassis ("40x10GE/Supervisor")
  Intel(R) Celeron(R) M CPU    with 2074284 kB of memory.
  Processor Board ID JAF1413ADCS

  Device name: d14-switch-2
  bootflash:    1003520 kB

Kernel uptime is 0 day(s), 1 hour(s), 2 minute(s), 41 second(s)
```

```
Last reset at 167864 usecs after  Mon Apr 19 04:22:45 2010

  Reason: Reset due to upgrade
  System version: 4.2(1)N1(1)
  Service:

plugin
  Core Plugin, Ethernet Plugin, Fc Plugin
switch#
```

This example shows how to display the version information for the kickstart and system image running on a device that runs Cisco NX-OS Release 5.0(2)N2(1):

```
switch# show version
Cisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2010, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained herein are owned by
other third parties and are used and distributed under license.
Some parts of this software are covered under the GNU Public
License. A copy of the license is available at
http://www.gnu.org/licenses/gpl.html.

Software
  BIOS:      version 1.3.0
  loader:    version N/A
  kickstart: version 5.0(2)N2(1) [build 5.0(2)N2(1)]
  system:    version 5.0(2)N2(1) [build 5.0(2)N2(1)]
  power-seq: version v1.2
  BIOS compile time:       09/08/09
  kickstart image file is: bootflash:/sanity-kickstart
  kickstart compile time:  12/6/2010 7:00:00 [12/06/2010 07:35:14]
  system image file is:    bootflash:/sanity-system
  system compile time:     12/6/2010 7:00:00 [12/06/2010 08:56:45]


Hardware
  cisco Nexus5010 Chassis ("20x10GE/Supervisor")
  Intel(R) Celeron(R) M CPU    with 2073416 kB of memory.
  Processor Board ID JAF1228BTAS

  Device name: BEND-2
  bootflash:    1003520 kB

Kernel uptime is 0 day(s), 3 hour(s), 30 minute(s), 45 second(s)

Last reset
  Reason: Unknown
  System version:
  Service:

plugin
  Core Plugin, Ethernet Plugin, Fc Plugin
switch#
```

Related Commands

Command	Description
show vpc brief	Displays information about vPCs. If the feature is not enabled, the system displays an error when you enter this command.

show vpc

To display detailed information about the virtual port channels (vPCs) configured on the switch, use the **show vpc** command.

show vpc [*vpc-number*]

Syntax Description

vpc-number	(Optional) vPC number. The range is from 1 to 4096.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
4.1(3)N1(1)	This command was introduced.

Examples

This example shows how to display the vPC information:

```
switch# show vpc
Legend:
                (*) - local vPC is down, forwarding via vPC peer-link

vPC domain id                     : 10
Peer status                       : peer adjacency formed ok
vPC keep-alive status             : peer is alive
Configuration consistency status: success
Type-2 consistency reason         : Consistency Check Not Performed
vPC role                          : secondary
Number of vPCs configured         : 1
Peer Gateway                      : Disabled
Dual-active excluded VLANs        : -

vPC Peer-link status
---------------------------------------------------------------------
id   Port   Status Active vlans
--   ----   ------ --------------------------------------------------
1    Po4000 up     1,3001-3500

vPC status
----------------------------------------------------------------------------
id     Port        Status Consistency Reason                     Active vlans
------ ----------- ------ ----------- -------------------------- -----------
10     Po10        up     success     success                    3001-3200

switch#
```

This example shows how to display information about a specific vPC:

```
switch# show vpc 10
```

```
vPC status
----------------------------------------------------------------------------
id     Port        Status Consistency Reason                     Active vlans
------ ----------- ------ ----------- -------------------------- -----------
10     Po10        up     success     success                    3001-3200

switch#
```

Related Commands

Command	Description
show vpc brief	Displays vPC information in a brief summary.
vpc	Configures vPC features on the switch.

show vpc brief

To display brief information about the virtual port channels (vPCs), use the **show vpc brief** command.

show vpc brief [**vpc** *number*]

Syntax Description

vpc *number*	(Optional) Displays the brief information for the specified vPC. The range is from 1 to 4096.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.1(3)N1(1)	This command was introduced.

Usage Guidelines

The **show vpc brief** command displays the vPC domain ID, the peer-link status, the keepalive message status, whether the configuration consistency is successful, and whether a peer link formed or failed to form.

This command is not available if you have not enabled the vPC feature. See the **feature vpc** command for information about enabling vPCs.

You can display the track object if you have configured a tracked object for running vPCs on a single module in the vpc-domain configuration mode.

Examples

This example shows how to display brief information about the vPCs on a switch that runs Cisco NX-OS Release 4.1(3)N1(1):

```
switch(config)# show vpc brief

Legend:
                (*) - local vpc is down, forwarding via vPC peer-link

vPC domain id                   : 10
Peer status                     : peer adjacency formed ok
vPC keep-alive status           : peer is alive
Configuration consistency status: success
vPC role                        : primary
Number of vPC configured        : 1

vPC Peer-link status
---------------------------------------------------------------------
id   Port   Status Active vlans
--   ----   ------ --------------------------------------------------
1    Po10   up     1-100

vPC status
```

```
--------------------------------------------------------------------
id   Port   Status Consistency Reason                     Active vlans
--   ----   ------ ----------- -------------------------- ------------
20   Po20   up     success     success                    1-100
switch(config)#
```

This example shows how to display brief information about the vPCs. In this example, the port channel failed the consistency check, and the device displays the reason for the failure:

```
switch(config)# show vpc brief

Legend:
                (*) - local vpc is down, forwarding via vPC peer-link

vPC domain id                   : 10
Peer status                     : peer adjacency formed ok
vPC keep-alive status           : peer is alive
Configuration consistency status: failed
Configuration consistency reason: vPC type-1 configuration incompatible - STP interface
port type inconsistent
vPC role                        : secondary
Number of vPC configured        : 1

vPC Peer-link status
---------------------------------------------------------------------
id   Port   Status Active vlans
--   ----   ------ --------------------------------------------------
1    Po10   up     1-100

vPC status
----------------------------------------------------------------------
id   Port   Status Consistency Reason                     Active vlans
--   ----   ------ ----------- -------------------------- ------------
20   Po20   up     failed      vPC type-1 configuration   -
                                incompatible - STP
                                interface port type
                                inconsistent
switch(config)#
```

This example shows how to display information about the tracked objects in the vPCs:

```
switch(config)# show vpc brief

Legend:
                (*) - local vpc is down, forwarding via vPC peer-link

vPC domain id                   : 1
Peer status                     : peer adjacency formed ok
vPC keep-alive status           : peer is alive
Configuration consistency status: success
vPC role                        : secondary
Number of vPC configured        : 3
Track object                    : 12


vPC Peer-link status
---------------------------------------------------------------------
id   Port   Status Active vlans
--   ----   ------ --------------------------------------------------
1    Po10   up     1-100
switch(config)#
```

This example shows how to display the vPC configuration, including the Graceful Type-1 Consistency configuration, on a switch that runs Cisco NX-OS Release 5.0(2)N2(1):

```
switch# show vpc brief
Legend:
                (*) - local vPC is down, forwarding via vPC peer-link

vPC domain id                     : 100
Peer status                       : peer link is down
vPC keep-alive status             : peer is alive, but domain IDs do not match
Configuration consistency status: success
Per-vlan consistency status       : success
Type-2 consistency status         : success
vPC role                          : primary
Number of vPCs configured         : 1
Peer Gateway                      : Disabled
Dual-active excluded VLANs        : -
Graceful Consistency Check        : Enabled

vPC Peer-link status
---------------------------------------------------------------------
id   Port   Status Active vlans
--   ----   ------ --------------------------------------------------
1    Po100  down   -

vPC status
----------------------------------------------------------------------------
id     Port        Status Consistency Reason                     Active vlans
------ ----------- ------ ----------- -------------------------- -----------
1      Po1         down   success     success                    -

switch#
```

Related Commands

Command	Description
feature vpc	Enables vPCs on the device.
show port channel summary	Displays information about port channels.
vpc	Configures vPC domains and peers.

show vpc consistency-parameters

To display the consistency of parameters that must be compatible across the virtual port-channel (vPC) interfaces, use the **show vpc consistency-parameters** command.

show vpc consistency-parameters {**global** | **interface port-channel** *channel-number* | **vlans** | **vpc** *number*}

Syntax Description

global	Displays the configuration of all Type 1 global parameters on both sides of the vPC peer link.
interface port-channel *channel-number*	Displays the configuration of all Type 1 interface parameters on both sides of the vPC peer link.
vlans	Displays the configuration of all VLANs, including incompatible VLANs, on both sides of the vPC peer link for the specified vPC.
vpc *number*	Displays the configuration of all Type 1 interface parameters on both sides of the vPC peer link for the specified vPC.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.1(3)N1(1)	This command was introduced.
5.0(2)N2(1)	The **vlans** keyword was added.

Usage Guidelines

The **show vpc consistency-parameters** command displays the configuration of all the vPC Type 1 parameters on both sides of the vPC peer link.

Note All the Type 1 configurations must be identical on both sides of the vPC peer link, or the link will not come up.

The vPC Type 1 configuration parameters are as follows:

- Port-channel mode: on, off, or active
- Link speed per channel
- Duplex mode per channel
- Trunk mode per channel
  - Native VLAN
  - VLANs allowed on trunk

  - Tagging of native VLAN traffic
- Spanning Tree Protocol (STP) mode
- STP region configuration for Multiple Spanning Tree
- Enable/disable state the same per VLAN
- STP global settings
  - Bridge Assurance setting
  - Port type setting—We recommend that you set all vPC peer link ports as network ports.
  - Loop Guard settings
- STP interface settings:
  - Port type setting
  - Loop Guard
  - Root Guard
- Maximum transmission unit (MTU)
- Allowed VLAN bit set

This command is not available if you have not enabled the vPC feature. See **feature vpc** for information on enabling vPCs.

Examples

This example shows how to display the vPC global consistency parameters on a switch that runs Cisco NX-OS Release 4.1(3)N1(1):

```
switch(config)# show vpc consistency-parameters global

    Legend:
        Type 1 : vPC will be suspended in case of mismatch

Name                        Type  Local Value            Peer Value
-------------               ----  ---------------------- -----------------------
QoS                         1     ([], [3], [0], [1-2],  ([], [3], [0], [1-2],
                                  [4-5], [6])            [4-5], [6])
Network QoS (MTU)           1     (1538, 2240, 5038,     (1538, 2240, 5038,
                                  4038, 9216, 9216)      4038, 9216, 9216)
Network Qos (Pause)         1     (F, T, F, F, F, F)     (F, T, F, F, F, F)
Input Queuing (Bandwidth)   1     (5, 10, 20, 0, 20, 40) (5, 10, 20, 0, 20, 40)
Input Queuing (Absolute     1     (F, F, F, T, F, F)     (F, F, F, T, F, F)
Priority)
Output Queuing (Bandwidth)  1     (5, 10, 20, 0, 20, 40) (5, 10, 20, 0, 20, 40)
Output Queuing (Absolute    1     (F, F, F, T, F, F)     (F, F, F, T, F, F)
Priority)
STP Mode                    1     Rapid-PVST             Rapid-PVST
STP Disabled                1     None                   None
STP MST Region Name         1     ""                     ""
STP MST Region Revision     1     0                      0
STP MST Region Instance to  1
 VLAN Mapping
STP Loopguard               1     Disabled               Disabled
STP Bridge Assurance        1     Enabled                Enabled
STP Port Type, Edge         1     Normal, Disabled,      Normal, Disabled,
BPDUFilter, Edge BPDUGuard        Disabled               Disabled
STP MST Simulate PVST       1     Enabled                Enabled
Allowed VLANs               -     1-330,335,338-450,1000 1-330,333-447,1000-102
                                  -1023,2000-2023        8,2000-2018
Local suspended VLANs       -     331-334,336-337,448-45 -
```

```
                                    0,2019-2023
switch(config)#
```

This example shows how to display the vPC global consistency parameters on a switch that runs Cisco NX-OS Release 5.0(2)N2(1):

```
switch# show vpc consistency-parameters global

    Legend:
        Type 1 : vPC will be suspended in case of mismatch

Name                        Type  Local Value            Peer Value
-------------               ----  ---------------------- -----------------------
QoS                         2     ([], [3], [], [], [],  ([], [3], [], [], [],
                                  [])                    [])
Network QoS (MTU)           2     (1538, 2240, 0, 0, 0,  (1538, 2240, 0, 0, 0,
                                  0)                     0)
Network Qos (Pause)         2     (F, T, F, F, F, F)     (1538, 2240, 0, 0, 0,
                                                         0)
Input Queuing (Bandwidth)   2     (50, 50, 0, 0, 0, 0)   (50, 50, 0, 0, 0, 0)
Input Queuing (Absolute     2     (F, F, F, F, F, F)     (50, 50, 0, 0, 0, 0)
Priority)
Output Queuing (Bandwidth)  2     (50, 50, 0, 0, 0, 0)   (50, 50, 0, 0, 0, 0)
Output Queuing (Absolute    2     (F, F, F, F, F, F)     (50, 50, 0, 0, 0, 0)
Priority)
STP Mode                    1     Rapid-PVST             Rapid-PVST
STP Disabled                1     None                   None
STP MST Region Name         1     ""                     ""
STP MST Region Revision     1     0                      0
STP MST Region Instance to  1
 VLAN Mapping
STP Loopguard               1     Disabled               Disabled
STP Bridge Assurance        1     Enabled                Enabled
STP Port Type, Edge         1     Normal, Disabled,      Normal, Disabled,
BPDUFilter, Edge BPDUGuard        Disabled               Disabled
STP MST Simulate PVST       1     Enabled                Enabled
VTP domain                  2     cisco                  cisco
VTP version                 2     2                      2
VTP mode                    2     Server                 Server
VTP password                2
VTP pruning status          2     Disabled               Disabled
VTP trunk status            2     Enabled                Enabled
Pruning eligible vlans      2     2-1001                 2-1001
Allowed VLANs               -     1-10                   1-2
Local suspended VLANs       -     3-10                   -

switch#
```

This example shows how to display the vPC consistency parameters for the specified port channel on a switch that runs Cisco NX-OS Release 4.1(3)N1(1):

```
switch(config)# show vpc consistency-parameters interface port-channel 20

Legend:
        Type 1 : vPC will be suspended in case of mismatch

Name            Type Local Value              Peer Value
-------------   ---- ------------------------ --------------------------
STP Port Type   1    Default                  Default
STP Port        1    None                     None
Guard
mode            1    on                       on
Speed           1    10 Gb/s                  10 Gb/s
Duplex          1    full                     full
```

```
Port Mode       1    trunk                    trunk
Native Vlan     1    1                        1
MTU             1    1500                     1500
Allowed VLAN    -    1-100                    1-100
bitset
switch(config)#
```

This example shows how to display the vPC consistency parameters for the specified port channel on a switch that runs Cisco NX-OS Release 5.0(2)N2(1):

```
switch# show vpc consistency-parameters interface port-channel 1

    Legend:
        Type 1 : vPC will be suspended in case of mismatch

Name                        Type  Local Value            Peer Value
-------------               ----  ---------------------- -----------------------
Shut Lan                    1     No                     No
STP Port Type               1     Default                Default
STP Port Guard              1     None                   None
STP MST Simulate PVST       1     Default                Default
mode                        1     on                     on
Speed                       1     10 Gb/s                10 Gb/s
Duplex                      1     full                   full
Port Mode                   1     trunk                  trunk
Native Vlan                 1     1                      1
MTU                         1     1500                   1500
VTP trunk status            2     Enabled                Enabled
Pruning eligible vlans      2     2-1001                 2-1001
Allowed VLANs               -     1-3967,4048-4093       1-3967,4048-4093
Local suspended VLANs       -     3-10                   -
switch#
```

This example shows how to display the vPC consistency parameters for the specified vPC on a switch that runs Cisco NX-OS Release 4.1(3)N1(1):

```
switch# show vpc consistency-parameters vpc 1

    Legend:
        Type 1 : vPC will be suspended in case of mismatch

Name                        Type  Local Value            Peer Value
-------------               ----  ---------------------- -----------------------
Shut Lan                    1     No                     No
STP Port Type               1     Default                Default
STP Port Guard              1     None                   None
STP MST Simulate PVST       1     Default                Default
lag-id                      1     [(7f9b,                [(7f9b,
                                  0-23-4-ee-be-64, 8001, 0-23-4-ee-be-64, 8001,
                                   0, 0), (8000,          0, 0), (8000,
                                  0-5-9b-23-40-3c, 0, 0, 0-5-9b-23-40-3c, 0, 0,
                                   0)]                    0)]
mode                        1     active                 active
Speed                       1     1000 Mb/s              10 Gb/s
Duplex                      1     full                   full
Port Mode                   1     access                 access
MTU                         1     1500                   1500
Allowed VLANs               -     1                      1
Local suspended VLANs       -     -                      -
switch#
```

This example shows how to display the vPC consistency parameters for VLANs on a switch that runs Cisco NX-OS Release 4.1(3)N1(1):

```
switch# show vpc consistency-parameters vlans

Name                        Type  Reason Code             Pass Vlans

-------------               ----  --------------------- -----------------------
STP Mode                    1     success                 0-4095
STP Disabled                1     success                 0-4095
STP MST Region Name         1     success                 0-4095
STP MST Region Revision     1     success                 0-4095
STP MST Region Instance to  1     success                 0-4095
 VLAN Mapping
STP Loopguard               1     success                 0-4095
STP Bridge Assurance        1     success                 0-4095
STP Port Type, Edge         1     success                 0-4095
BPDUFilter, Edge BPDUGuard
STP MST Simulate PVST       1     success                 0-4095
Pass Vlans                  -                             0-4095
switch#
```

Related Commands

Command	Description
show vpc brief	Displays information about vPCs. If the feature is not enabled, the system displays an error when you enter this command.
show port channel summary	Displays information about port channels.
vpc	Configures vPC domains and peers.

show vpc orphan-ports

To display ports that are not part of the virtual port channel (vPC) but have common VLANs, use the **show vpc orphan-ports** command.

show vpc orphan-ports

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.1(3)N1(1)	This command was introduced.

Usage Guidelines

The **show vpc orphan-ports** command displays those ports that are not part of the vPC but that share common VLANs with ports that are part of the vPC.

This command is not available if you have not enabled the vPC feature. See the **feature vpc** command for information about enabling vPCs.

Examples

This example shows how to display vPC orphan ports:

```
switch(config)# show vpc orphan-ports

Note:
--------::Going through port database. Please be patient.::--------

VLAN            Orphan Ports
-------         -------------------------
1               Po600
2               Po600
3               Po600
4               Po600
5               Po600
6               Po600
7               Po600
8               Po600
9               Po600
10              Po600
11              Po600
12              Po600
13              Po600
14              Po600
--More--
switch(config)#
```

Related Commands

Command	Description
feature vpc	Enables vPCs on the device.
vpc orphan-port suspend	Suspends a non-vPC port.
show vpc brief	Displays brief information about vPCs.

show vpc peer-keepalive

To display the destination IP for the virtual port-channel (vPC) peer keepalive message and the status of the messages, use the **show vpc peer-keepalive** command.

show vpc peer-keepalive

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.1(3)N1(1)	This command was introduced.

Usage Guidelines

The show **vpc peer-keepalive** command displays the destination IP of the peer keepalive message for the vPC. The command also displays the send and receive status as well as the last update from the peer in seconds and milliseconds.

Note We recommend that you create a separate VRF on the peer devices to send and receive the vPC peer keepalive messages. Do not use the peer link itself to send the vPC peer-keepalive messages.

This command is not available if you have not enabled the vPC feature. See the **feature vpc** command for information about enabling vPCs.

Examples

This example shows how to display information about the peer-keepalive message:

```
switch(config)# show vpc peer-keepalive

vPC keep-alive status           : peer is alive
--Send status                   : Success
--Last send at                  : 2008.05.17 18:23:53 986 ms
--Sent on interface             : Eth7/16
--Receive status                : Success
--Last receive at               : 2008.05.17 18:23:54 99 ms
--Received on interface         : Eth7/16
--Last update from peer         : (0) seconds, (486) msec

vPC Keep-alive parameters
--Destination                   : 192.168.145.213
--Keepalive interval            : 1000 msec
--Keepalive timeout             : 5 seconds
--Keepalive hold timeout        : 3 seconds
--Keepalive vrf                 : pkal
--Keepalive udp port            : 3200
```

```
--Keepalive tos                : 192
switch(config)#
```

Related Commands

Command	Description
show vpc brief	Displays information about vPCs. If the feature is not enabled, the system displays an error when you enter this command.

show vpc role

To display information about the virtual port-channel (vPC) role of the peer device, use the **show vpc role** command.

show vpc role

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.1(3)N1(1)	This command was introduced.

Usage Guidelines

The **show vpc role** command displays the following information about the vPC status:

- Status of peer adjacency
- vPC role
- vPC MAC address
- vPC system priority
- MAC address of the device that you are working on
- System priority for the device that you are working on

This command is not available if you have not enabled the vPC feature. See the **feature vpc** command for information on enabling vPCs.

Examples

This example shows how to display the vPC role information of the device that you are working on:

```
switch(config)# show vpc role

Primary:

vPC Role status
----------------------------------------------------
vPC role                          : primary
Dual Active Detection Status      : 0
vPC system-mac                    : 00:23:04:ee:be:01
vPC system-priority               : 32667
vPC local system-mac              : 00:22:55:79:ea:c1
vPC local role-priority           : 32667


Secondary:
```

```
vPC Role status
----------------------------------------------------
vPC role                        : secondary
Dual Active Detection Status    : 0
vPC system-mac                  : 00:23:04:ee:be:01
vPC system-priority             : 32667
vPC local system-mac            : 00:22:55:79:de:41
vPC local role-priority         : 32667
switch(config)#
```

When you reload the primary vPC peer device, the secondary vPC peer device assumes the role of the primary device. This example shows how the vPC role displays then on the new primary device:

```
switch(config)# show vpc role

vPC Role status
----------------------------------------------------
vPC role                        : secondary, operational primary
Dual Active Detection Status    : 0
vPC system-mac                  : 00:23:04:ee:be:64
vPC system-priority             : 32667
vPC local system-mac            : 00:22:55:79:de:41
vPC local role-priority         : 32667

switch(config)#
```

Related Commands

Command	Description
role	Assigns a primary or secondary role to a vPC device.
show vpc brief	Displays information about vPCs. If the feature is not enabled, the system displays an error when you enter this command.
show port channel summary	Displays information about port channels.

show vpc statistics

To display virtual port-channel (vPC) statistics, use the **show vpc statistics** command.

show vpc statistics {**peer-keepalive** | **peer-link** | **vpc** *number*}

Syntax Description

peer-keepalive	Displays statistics about the peer-keepalive message.
peer-link	Displays statistics about the peer link.
vpc *number*	Displays statistics about the specified vPC. The range is from 1 to 4096.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
4.1(3)N1(1)	This command was introduced.

Usage Guidelines

The **peer-link** parameter displays the same information as the **show interface port-channel** *channel number* command for the vPC peer-link port channel.

The **vpc** *number* parameter displays the same information as the **show interface port-channel** *channel number* command for the specified vPC port channel.

This command is not available if you have not enabled the vPC feature. See the **feature vpc** command for information on enabling vPCs.

Examples

This example shows how to display statistics about the peer-keepalive message:

```
switch# show vpc statistics peer-keepalive

vPC keep-alive status           : peer is alive

VPC keep-alive statistics
--------------------------------------------------
peer-keepalive tx count:          1036
peer-keepalive rx count:          1028
average interval for peer rx:     995
Count of peer state changes:      1
switch(config)#
```

Related Commands

Command	Description
show vpc brief	Displays information about vPCs. If the feature is not enabled, the system displays an error when you enter this command.
show port channel summary	Displays information about port channels.