



Cisco Nexus 7000 Series Switches Command Reference: The Catena Solution

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Preface

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Preface

This preface describes the audience, organization, and conventions of the Book Title. It also provides information on how to obtain related documentation.

This chapter includes the following topics:

Audience

This publication is for experienced network administrators who configure and maintain Cisco NX-OS on Cisco Nexus 7000 Series Platform switches.

Document Conventions



Note

- As part of our constant endeavor to remodel our documents to meet our customers' requirements, we have modified the manner in which we document configuration tasks. As a result of this, you may find a deviation in the style used to describe these tasks, with the newly included sections of the document following the new format.
- The Guidelines and Limitations section contains general guidelines and limitations that are applicable to all the features, and the feature-specific guidelines and limitations that are applicable only to the corresponding feature.

Command descriptions use the following conventions:

Convention	Description
bold	Bold text indicates the commands and keywords that you enter literally as shown.

Convention	Description
<i>Italic</i>	Italic text indicates arguments for which the user supplies the values.
[x]	Square brackets enclose an optional element (keyword or argument).
[x y]	Square brackets enclosing keywords or arguments separated by a vertical bar indicate an optional choice.
{x y}	Braces enclosing keywords or arguments separated by a vertical bar indicate a required choice.
[x {y z}]	Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element.
variable	Indicates a variable for which you supply values, in context where italics cannot be used.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.

Examples use the following conventions:

Convention	Description
screen font	Terminal sessions and information the switch displays are in screen font.
boldface screen font	Information you must enter is in boldface screen font.
<i>italic screen font</i>	Arguments for which you supply values are in italic screen font.
<>	Nonprinting characters, such as passwords, are in angle brackets.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

This document uses the following conventions:



Note

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.

**Caution**

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

Related Documentation

Documentation for Cisco Nexus 7000 Series Switches is available at:

- Configuration Guides
<http://www.cisco.com/c/en/us/support/switches/nexus-7000-series-switches/products-installation-and-configuration-guides-list.html>
- Command Reference Guides
<http://www.cisco.com/c/en/us/support/switches/nexus-7000-series-switches/products-command-reference-list.html>
- Release Notes
<http://www.cisco.com/c/en/us/support/switches/nexus-7000-series-switches/products-release-notes-list.html>
- Install and Upgrade Guides
<http://www.cisco.com/c/en/us/support/switches/nexus-7000-series-switches/products-installation-guides-list.html>
- Licensing Guide
<http://www.cisco.com/c/en/us/support/switches/nexus-7000-series-switches/products-licensing-information-listing.html>

Documentation for Cisco Nexus 7000 Series Switches and Cisco Nexus 2000 Series Fabric Extenders is available at the following URL:

<http://www.cisco.com/c/en/us/support/switches/nexus-2000-series-fabric-extenders/products-installation-and-configuration-guides-list.html>

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to nexus7k-docfeedback@cisco.com. We appreciate your feedback.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). RSS feeds are a free service.



A Commands

- [access-list, page 2](#)

access-list

To configure a sequence list when creating a Catena chain, use the **access-list** command. To remove the configuration, use the **no** form of this command.

```
sequence-number access-list acl-name {vlan-group vg-name | ingress-port-group ipg-name}
{egress-port-group epg-name | egress-device-group edg-name} [mode mode]
```

```
no sequence-number
```

Syntax Description

<i>sequence-number</i>	Sequence number in a chain. The range is from 1 to 4294967295.
<i>acl-name</i>	Access list name. Maximum length is 31 characters.
vlan-group	Specifies the VLAN group.
<i>vg-name</i>	VLAN group name. Maximum length is 31 characters.
ingress-port-group	Specifies the ingress port group.
<i>ipg-name</i>	Ingress port group name. Maximum length is 31 characters.
egress-port-group	Specifies the egress port group.
<i>epg-name</i>	Egress port group name. Maximum length is 31 characters.
egress-device-group	Specifies the egress device group.
<i>edg-name</i>	Egress device group name. Maximum length is 31 characters.
mode	(Optional) Specifies the mode for the received packets.
<i>mode</i>	Mode types. Valid values for the received packets are drop , bypass , or forward .

Command Default

None.

Command Modes

Catena configuration mode (config-catena)

Command History

Release	Modification
Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines

The Catena solution must be enabled and configured before using this command. You must also configure an access control list, a port group, a device group, a vlan group, and a chain for the Catena instance before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples

The following example shows how to use the access-list command when creating a Catena chain:

```
switch# configure terminal
switch(config)# catena ins1
switch(config-catena-instance)# chain 10
switch(config-catena)# 10 access-list acl11 vlan-group vg1 egress-port-group pg1 mode forward
```

Related Commands

Command	Description
catena	Creates a Catena instance.
catena device-group	Creates a device group.
catena port-group	Creates a port group.
catena vlan-group	Creates a VLAN group.
chain	Creates a chain ID.



C Commands

- [catena](#), page 6
- [catena device-group](#), page 7
- [catena port-acl](#), page 8
- [catena port-group](#), page 10
- [catena vlan-group](#), page 11
- [chain](#), page 12

catena

To create a Catena instance, use the **catena** command. To remove the Catena instance, use the **no** form of this command.

catena *instance-name*

no catena *instance-name*

Syntax Description

<i>instance-name</i>	Catena instance name. Maximum length is 31 characters.
----------------------	--

Command Default

None.

Command Modes

Configuration mode (config)

Command History

Release	Modification
Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples

The following example shows how to enable a Catena instance:

```
switch# configure terminal
switch(config)# catena ins1
switch(config-catena-instance)# no shutdown
```

Related Commands

Command	Description
feature catena	Enables the Catena feature.
show catena	Displays the status and configuration for a specified Catena instance.
show running-config catena	Displays the running Catena configuration.

catena device-group

To create a device group, use the **catena device-group** command. To remove the device group, use the **no** form of this command.

catena device-group *device-group-name*

no catena device-group *device-group-name*

Syntax Description

<i>device-group-name</i>	Device group name. Maximum length is 31 characters.
--------------------------	---

Command Default

None.

Command Modes

Configuration mode (config)

Command History

Release	Modification
Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these task, see ["Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution."](#)

Examples

The following example shows how to create a device group:

```
switch# configure terminal
switch(config)# catena device-group s-dg-1
```

Related Commands

Command	Description
catena port-group	Creates a port group.
catena vlan-group	Creates a VLAN group.
node	Assigns node to a device group.
probe	Configures a device-group probe.

catena port-acl

To create an ACL port, use the **catena port-acl** command. To remove the ACL port, use the **no** form of this command.

catena port-acl *port-acl-name*

no catena port-acl *port-acl-name*

Syntax Description

<i>port-acl-name</i>	Specifies the name of ACL port. Maximum length is 31 characters.
----------------------	--

Command Default

The ACL port is not created by default and the transparent mode cannot be used.

Command Modes

Global configuration (config)

Command History

Release	Modification
Cisco NX-OS 8.2(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples

The following example shows how to create an ACL port:

```
switch# configure terminal
switch(config)# catena port-acl pa1
```

Related Commands

Command	Description
catena device-group	Creates a device group.
catena port-group	Creates a port group.
catena vlan-group	Creates a VLAN group.
deny	Prevents traffic from a source IP address to a destination IP address.
interface	Assigns an interface to a configured port group.

Command	Description
permit	Allows traffic from a source IP address to a destination IP address.

catena port-group

To create a port group, use the **catena port-group** command. To remove the port group, use the **no** form of this command.

catena port-group *port-group-name*

no catena port-group *port-group-name*

Syntax Description

<i>port-group-name</i>	Port group name. Maximum length is 31 characters.
------------------------	---

Command Default

None.

Command Modes

Configuration mode (config)

Command History

Release	Modification
Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution.](#)"

Examples

The following example shows how to create a port group:

```
switch# configure terminal
switch(config)# catena port-group pgl
```

Related Commands

Command	Description
catena device-group	Creates a device group.
catena vlan-group	Creates a VLAN group.
interface	Assigns an interface to a configured port group.

catena vlan-group

To create a VLAN group, use the **catena vlan-group** command. To remove the VLAN group, use the **no** form of this command.

catena vlan-group *vlan-group-name*

no catena vlan-group *vlan-group-name*

Syntax Description

<i>vlan-group-name</i>	VLAN group name. Maximum length is 31 characters.
------------------------	---

Command Default

None.

Command Modes

Configuration mode (config)

Command History

Release	Modification
Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution.](#)"

Examples

The following example shows how to create a VLAN group:

```
switch# configure terminal
switch(config)# catena vlan-group vg1
```

Related Commands

Command	Description
catena device-group	Creates a device group.
catena port-group	Creates a port group.
vlan	Assigns a VLAN to a configured VLAN group.

chain

To create a chain ID, use the **chain** command. To remove the chain ID, use the **no** form of this command.

chain *chain-id*

no chain *chain-id*

Syntax Description

<i>chain-id</i>	Chain ID. The range is from 0–2147483647.
-----------------	---

Command Default

None.

Command Modes

Catena instance configuration mode (config-catena-instance)

Command History

Release	Modification
Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples

The following example shows how to create a chain ID:

```
switch# configure terminal
switch(config)# catena ins1
switch(config-catena-instance)# chain 10
```

Related Commands

Command	Description
access-list	Creates a sequence list.
catena	Creates a Catena instance.



D Commands

- [deny](#), page 14

deny

To prevent traffic from a source IP address to a destination IP address, use the **deny** command. To remove a deny rule, if any, use the **no** form of this command.

```
[ sequence-number ] deny ip source-address destination-address
no sequence-number
```

Syntax Description

<i>sequence-number</i>	(Optional) Specifies the sequence number. The range is from 1–4294967295. The default is 10. Note The sequence number is not optional in the no form of the deny command.
<i>source-address</i>	Specifies the source IP address.
<i>destination-address</i>	Specifies the destination IP address.

Command Default

No rule is created on traffic.

Command Modes

ACL port configuration (config-port-acl)

Command History

Release	Modification
Cisco NX-OS 8.2(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these tasks, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples

This example shows how to deny traffic from a source IP address to a destination IP address:

```
switch(config)# catena port-acl pa1
switch(config-port-acl)# 2 deny ip host 0.0.0.0 host 10.0.0.1
```

Related Commands

Command	Description
catena	Creates a Catena instance.
catena port-acl	Configures an ACL port.

Command	Description
permit	Allows traffic from a source IP address to a destination IP address.

 deny



F Commands

- [feature catena, page 18](#)

feature catena

To enable the Catena feature, use the **feature catena** command. To disable this feature, use the **no** form of this command.

feature catena

no feature catena

Syntax Description This command has no arguments or keywords.

Command Default The Catena feature is disabled.

Command Modes Configuration mode (config)

Command History	Release	Modification
	Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines Catena must be configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples The following example shows how to enable Catena:

```
switch# configure terminal
switch(config)# feature catena
```

Related Commands

Command	Description
show catena	Displays the status and configuration for the specified Catena instance.
show running-config catena	Displays the running Catena configuration.



I Commands

- [interface](#), page 20

interface

To assign an interface to a configured port group, use the **interface** command. To remove the interface from the port group, use the **no** form of this command.

interface *interface-reference*

no interface *interface-reference*

Syntax Description

<i>interface-reference</i>	Interface reference number.
----------------------------	-----------------------------

Command Default

None.

Command Modes

Port group configuration mode (config-port-group)

Command History

Release	Modification
Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples

The following example shows how to assign interfaces to a configured port group:

```
switch# configure terminal
switch(config)# catena port-group pgl
switch(config-port-group)# interface Eth 2/2
switch(config-port-group)# interface Eth 2/3
```

Related Commands

Command	Description
catena port-group	Creates a port group.



L Commands

- [load-balance port-channel](#), page 22

load-balance port-channel

To load balance the traffic in a port channel in a port group, use the **load-balance port-channel** command. To remove the load-balance, use the **no** form of this command.

load-balance port-channel

no load-balance port-channel

Syntax Description

load-balance	Specifies the Catena load-balance.
port-channel	Specifies the port channel of all interfaces in a port group.

Command Default

The traffic is not load balanced by default.

Command Modes

Port group configuration (config-port-group)

Command History

Release	Modification
Cisco NX-OS 8.2(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples

The following example shows how to load-balance a port channel in a port group:

```
switch# configure terminal
switch(config)# catena port-group pgl
switch(config-port-group)# load-balance port-channel
```

Related Commands

Command	Description
catena device-group	Creates a device group.
catena port-group, on page 10	Creates a port group.
catena vlan-group	Creates a VLAN group.
interface	Assigns an interface to a configured port group.



N Commands

- [node](#), page 26

node

To assign a node to a configured device group, use the **node** command. To remove the node from the device group, use the **no** form of this command.

node {**ip** *ipv4-address* | **IPv6** *ipv6-address*}

no node {**ip** *ipv4-address* | **IPv6** *ipv6-address*}

Syntax Description

ip <i>ipv4-address</i>	Specifies the IPv4 address-based load or traffic distribution.
IPv6 <i>ipv6-address</i>	Specifies the-IPv6 address-based load or traffic distribution.

Command Default

None.

Command Modes

Device group configuration mode (config-device-group)

Command History

Release	Modification
Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples

The following example shows how to assign a node to a device group:

```
switch# configure terminal
switch(config)# catena device-group s-dg-1
switch(config-device-group)# node ip 1.1.1.1
switch(config-device-group)# node ip 2.2.2.2
```

Related Commands

Command	Description
catena device-group	Creates a device group.



P Commands

- [permit](#), page 28
- [probe](#), page 30

permit

To allow traffic from a source IP address to a destination IP address, use the **permit** command. To remove a permit rule, if any, use the **no** form of this command.

```
[ sequence-number ] permit ip source-address destination-address
no sequence-number
```

Syntax Description

<i>sequence-number</i>	(Optional) Specifies the sequence number. The range is from 1–4294967295. The default is 10. Note The sequence number is not optional in the no form of the permit command.
<i>source-address</i>	Specifies the source IP address.
<i>destination-address</i>	Specifies the destination IP address.

Command Default

No rule is created on traffic.

Command Modes

ACL port configuration (config-port-acl)

Command History

Release	Modification
Cisco NX-OS 8.2(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these tasks, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples

This example shows how to permit traffic from a source IP address to a destination IP address:

```
switch(config)# catena port-acl pa1
switch(config-port-acl)# 2 permit ip 209.165.200.225 10.0.0.1
```

Related Commands

Command	Description
catena	Creates a Catena instance.
catena port-acl	Configures an ACL port.

Command	Description
deny	Prevents traffic from a source IP address to a destination IP address.

probe

To configure a device-group probe, use the **probe** command. To remove the configuration, use the **no** form of this command.

probe *probe-id* [**control** *status*] [**host** *host-name*] [**frequency** *frequency-number* | **timeout** *timeout* | **retry-down-count** *down-count* | **retry-up-count** *up-count* | **ip** *ipv4-address*]

noprobe *probe-id* [**control** *status*] [**host** *host-name*] [**frequency** *frequency-number* | **timeout** *timeout* | **retry-down-count** *down-count* | **retry-up-count** *up-count* | **ip** *ipv4-address*]

Syntax Description

<i>probe-id</i>	Probe ID. You can specify ICMP , TCP , UDP , or DNS as the probe ID.
control <i>status</i>	(Optional) Specifies the control protocol status.
host <i>host-name</i>	(Optional) Specifies the host name.
frequency <i>frequency-number</i>	(Optional) Specifies the time interval, in seconds, between the successive probes sent to the node.
timeout <i>timeout</i>	(Optional) Specifies the amount of time, in seconds, to wait for the probe response.
retry-down-count <i>down-count</i>	(Optional) Specifies the consecutive number of times the probe must have failed prior to the node being marked as Down.
retry-up-count <i>up-count</i>	(Optional) Specifies the consecutive number of times the probe must have succeeded prior to the node being marked as Up.
ip <i>ipv4-address</i>	(Optional) Specifies the IP address-based load or traffic distribution.

Command Default

None.

Command Modes

Device group configuration mode (config-device-group)

Command History

Release	Modification
Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples

The following example shows how to configure a device-group probe:

```
switch# configure terminal
switch(config)# catena device-group s-dg-1
switch(config-device-group)# node ip 1.1.1.1
switch(config-device-group)# node ip 2.2.2.2
switch(config-device-group)# probe icmp
```

Related Commands

Command	Description
catena device-group	Creates a device group.
node	Assigns a node to a device group.



Show Commands

- [show catena](#), page 34
- [show running-config catena](#), page 35

show catena

To display the status and configuration of a specified Catena instance, use the **show catena** command.

show catena *instance-name* **brief**

Syntax Description

<i>instance-name</i>	Catena instance name. Maximum length is 31 characters.
----------------------	--

Command Default

None.

Command Modes

User EXEC (#) Privileged EXEC (#)

Command History

Release	Modification
Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples

EXAMPLE The following is sample output from the **show catena** command, which displays the status and configuration of a specified Catena instance:

```
switch# show catena ins1 brief
-----
Instance name      Status
-----
ins1                ACTIVE
-----

chain 10
  10          ac11          vg1          pg1      mode forward
  20          ac12          vg2          pg2      mode forward
  30          ac13          vg3          pg3      mode forward
```

Related Commands

Command	Description
show running-config catena	Displays the running Catena configuration.

show running-config catena

To display the running Catena configuration, use the **show running-config catena** command.

show running-config catena

Syntax Description This command has no arguments or keywords.

Command Default None.

Command Modes User EXEC (#) Privileged EXEC (#)

Command History	Release	Modification
	Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines Catena must be enabled and configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples EXAMPLE The following is sample output from the **show running-config catena** command, which displays the running Catena configuration in transparent mode:

```
switch# show running-config catena

catena vlan-group vg1
  vlan 10

catena vlan-group vg2
  vlan 20

catena vlan-group vg3
  vlan 30

catena port-group pg1
  interface Eth9/1

catena port-group pg2
  interface Eth9/2

catena port-group pg3
  interface Eth9/3

catena ins1
chain 10
  10 access-list acl11 vlan-group vg1 egress-port-group pg1 mode forward
  20 access-list acl12 vlan-group vg2 egress-port-group pg2 mode forward
  30 access-list acl13 vlan-group vg3 egress-port-group pg3 mode forward

no shutdown
```

EXAMPLE The following is sample output from the **show running-config catena** command, which displays the running Catena configuration in routed mode:

```
switch# show running-config catena

catena device-group s-dg-1
  node ip 1.1.1.1
  probe icmp

catena device-group s-dg-2
  node ip 2.1.1.1
  probe icmp

catena port-group pg1
  interface Eth9/1

catena port-group pg2
  interface Eth9/2

catena port-group pg3
  interface Eth9/3

catena ins2
  chain 20
    30 access-list acl11 ingress-port-group pg1 egress-device-group s-dg-1 mode forward
    40 access-list acl12 ingress-port-group pg2 egress-device-group s-dg-2 mode forward

no shutdown
```

Related Commands

Command	Description
show catena	Displays the status and configuration for the specified Catena instance.



V Commands

- [vlan](#), page 38

vlan

To assign a VLAN to a configured VLAN group, use the **vlan** command. To remove the VLAN from the VLAN group, use the **no** form of this command.

verify *vlan-range*

Syntax Description

<i>vlan-range</i>	Specifies the VLAN range. The range is from 1 to 3967.
-------------------	--

Command Default

None.

Command Modes

VLAN group configuration mode (config-vlan-group)

Command History

Release	Modification
Cisco NX-OS 8.0(1)	This command was introduced.

Usage Guidelines

Catena must be enabled and configured before using this command. For more information about these task, see "[Cisco Nexus 7000 Series Switches Configuration Guide: The Catena Solution](#)."

Examples

The following example shows how to assign a VLAN to a VLAN group:

```
switch# configure terminal
switch(config)# catena vlan-group vgl
switch(config-vlan-group)# vlan 10
switch(config-vlan-group)# vlan 20-30
switch(config-vlan-group)# vlan 40,50
```

Related Commands

Command	Description
catena vlan-group	Creates a VLAN group.