



Configuring Smart-Channel

This chapter describes how to configure smart-channel on Cisco NX-OS devices.

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Enabling Smart Channel

You must enable the smart channel feature before you can configure the smart channel services on the device.

SUMMARY STEPS

1. **configure terminal**
2. **[no] feature smart-channel**
3. (Optional) **show feature | grep smart-channel**
4. (Optional) **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: switch# configure terminal switch(config)#	Enters global configuration mode.
Step 2	[no] feature smart-channel Example: switch(config)# feature smart-channel	Enables or disables smart channel. By default, smart channel is disabled.
Step 3	(Optional) show feature grep smart-channel Example:	Displays the status of the smart channel configuration.

	Command or Action	Purpose
	<code>switch(config-if)# show feature grep smart-channel</code>	
Step 4	(Optional) copy running-config startup-config Example: <code>switch(config)# copy running-config startup-config</code>	Copies the running configuration to the startup configuration.

Configuring Port Groups

After you enable smart channel, you must create a port group and configure active interfaces on that group.

SUMMARY STEPS

1. **configure terminal**
2. **[no] smart-channel port-group** *port-group-name*
3. **interface ethernet** *type slot/port*
4. (Optional) **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: <code>switch# configure terminal</code> <code>switch(config)#</code>	Enters global configuration mode.
Step 2	[no] smart-channel port-group <i>port-group-name</i> Example: <code>switch(config)# smart-channel port-group Webservers</code> <code>switch(config-port-group)#</code>	Creates or deletes a port group.
Step 3	Required: interface ethernet <i>type slot/port</i> Example: <code>switch(config)# interface ethernet 3/1</code> <code>switch(config-if)#</code>	Configures the active interfaces on the port group.
Step 4	(Optional) copy running-config startup-config Example: <code>switch(config-port-group)# copy running-config startup-config</code>	Copies the running configuration to the startup configuration.

Configuring the Smart Channel Service

To configure the smart channel service, you must do the following:

1. Configure the service name
2. Configure the VLAN/source/destination filters
3. Associate the port group to the smart channel service
4. Specify the load distribution scheme
5. Activate the smart channel service

Before you begin

You must enable the smart channel feature before you configure the smart channel service.



Note Beginning from Cisco Nexus NX-OS Release 9.3(3), feature Smart-channel is not supported. It is recommended to take necessary actions while upgrading from any previous release to 9.3(2) or any newer versions.

SUMMARY STEPS

1. **configure terminal**
2. **[no] smart-channel** *service-name*
3. **[no] access vlan** *access-vlan* | **vlan** *vlan-range*
4. **[no] port group** *port-group-name*
5. **[no] load-balance method** [*src* | *dst*]
6. **[no] destination filter ip** *any* [*any*]
7. **[no] source filter** [*ipanyany*]
8. **[no] load-balance method** [*src* | *dst*] **Bucket** *B*
9. **no shut**

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: <pre>switch# configure terminal switch(config)#</pre>	Enters global configuration mode.
Step 2	Required: [no] smart-channel <i>service-name</i> Example: <pre>switch(config)# smart-channel WebTraffic switch(config-smart-channel)#</pre>	Configures or disables the smart channel service.

	Command or Action	Purpose
Step 3	<p>[no] access vlan <i>access-vlan</i> vlan <i>vlan-range</i></p> <p>Example:</p> <pre>switch(config-smart-channel)# access vlan 10-20 switch(config-port-group)#</pre>	Configures a list of VLANs for the smart channel service. While the access VLANs create the smart channel in an access mode, the VLANs in the VLAN range creates the smart channel in the trunk mode.
Step 4	<p>[no] port group <i>port-group-name</i></p> <p>Example:</p> <pre>switch(config-smart-channel)# port group WEBSERVERS switch(config-smart-channel)#</pre>	Associates a port-group with the smart channel service.
Step 5	<p>[no] load-balance method [<i>src</i> <i>dst</i>]</p> <p>Example:</p> <pre>switch(config-smart-channel)# load-balance method src-ip switch(config-smart-channel)#</pre>	Configures the load balancing method.
Step 6	<p>[no] destination filter ip <i>any</i> [<i>any</i>]</p> <p>Example:</p> <pre>switch(config-smart-channel)# destination filter ip any any switch(config-smart-channel)#</pre>	Configures the selected destination subnets.
Step 7	<p>[no] source filter [<i>ipanyany</i>]</p> <p>Example:</p> <pre>switch(config-smart-channel)# source filter ip any any switch(config-smart-channel)#</pre>	Configures the selected source subnets.
Step 8	<p>[no] load-balance method [<i>src</i> <i>dst</i>] Bucket B</p> <p>Example:</p> <pre>switch(config-smart-channel)# load-balance method src Bucket 16 switch(config-port-group)#</pre>	Configures the load balancing method.
Step 9	<p>no shut</p> <p>Example:</p> <pre>switch(config-smart-channel)# no shut switch(config-smart-channel)#</pre>	Activates the smart channel service.

Verifying the Smart Channel Configuration

Smart Channel Show Commands

To display the smart channel configuration, perform one of the following tasks:

SUMMARY STEPS

1. **show smart-channel** *service-name*
2. **show vlan access-list** *vlan access-map name*
3. **show running-config smart-channel** [all]

DETAILED STEPS

	Command or Action	Purpose
Step 1	show smart-channel <i>service-name</i>	Displays the smart channel configuration status.
Step 2	show vlan access-list <i>vlan access-map name</i>	Displays the statistics for a smart channel service.
Step 3	show running-config smart-channel [all]	Displays the running configuration for smart channel.

