L Commands

This chapter describes the Cisco NX-OS Ethernet and virtual Ethernet commands that begin with L.

lacp graceful-convergence

To configure port channel Link Aggregation Control Protocol (LACP) graceful convergence, use the **lacp graceful-convergence** command. To disable graceful convergence on a port channel interface, use the **no** form of this command.

lacp	graceful	l-convergence
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no lacp graceful-convergence

Syntax Description This command has no arguments or keywords.

Command Default Enabled

Command Modes Interface configuration mode

Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Usage Guidelines You can use this command only on a port channel interface that is in an administratively down state. You cannot configure (or disable) LACP graceful convergence on a port channel that is in an administratively up state. If you do so, you will see the following error message:

ERROR: Cannot set/reset lacp graceful-convergence for port-channel10 that is admin up

Note

To avoid port suspension, we recommend that you disable graceful convergence on LACP ports on a peer switch that is not running Cisco NX-OS.

This command does not require a license.

```
Examples
```

This example shows how to enable LACP graceful convergence on a port channel:

```
switch# configure terminal
switch(config)# interface port-channel 100
switch(config-if)# shutdown
switch(config-if)# lacp graceful-convergence
switch(config-if)#
```

This example shows how to disable LACP graceful convergence on a port channel:

```
switch# configure terminal
switch(config)# interface port-channel 100
switch(config-if)# no lacp graceful-convergence
switch(config-if)#
```

Related Commands	Command	Description
	show lacp	Displays LACP information.
	show running-config	Displays the running system configuration.

lacp port-priority

To set the priority for the physical interfaces for the Link Aggregation Control Protocol (LACP), use the **lacp port-priority** command. To return the port priority to the default value, use the **no** form of this command.

lacp port-priority priority

no lacp port-priority

Syntax Description	priority	Priority for the physical interfaces. The range of valid numbers is from 1 to 65535.
Command Default	System priority va	lue is 32768.
Command Modes	Interface configura	ation mode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
	port priority is use which ports should compatible ports fr	
Note	when setting the p	priority, note that a <i>higher</i> number means a <i>lower</i> priority.
Examples	switch# configur switch(config)#	interface ethernet 1/5)# lacp port-priority 2000
Related Commands	Command	Description
	show lacp	Displays LACP information.

lacp rate fast

To configure the rate at which control packets are sent by the Link Aggregation Control Protocol (LACP), use the **lacp rate fast** command. To restore the rate to 30 seconds, use the **no** form of this command or the **lacp rate normal** command.

lacp rate fast

no lacp rate

no lacp rate fast

lacp rate normal

Syntax Description This command has no arguments or keywords.

Command Default 1 second

Command Modes Interface configuration mode

Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	You must enable L	ACP before using this command.	

You can configure the LACP rate fast feature on the LACP ports of a Cisco Nexus device or a Cisco Nexus 2000 Series Fabric Extender that is connected to a Cisco Nexus device.

The LACP rate fast feature is used to set the rate (once every second) at which the LACP control packets are sent to an LACP-supported interface. The normal rate at which LACP packets are sent is 30 seconds.

Examples This example shows how to configure the LACP fast rate feature on a specified Ethernet interface:

switch(config)# interface ethernet 1/1
switch(config-if)# lacp rate fast

This example shows how to remove the LACP fast rate configuration from a specified Ethernet interface:

switch(config)# interface ethernet 1/1
switch(config-if)# no lacp rate fast

Related Commands	Command	Description
	feature lacp	Enables or disables LACP on the switch.

Command	Description	
interface ethernet	Enters Ethernet interface configuration mode.	
show lacp	Displays the LACP configuration information.	

lacp suspend-individual

To enable Link Aggregation Control Protocol (LACP) port suspension on a port channel, use the **lacp suspend-individual** command. To disable port suspension on a port channel interface, use the **no** form of this command.

lacp suspend-individual

no lacp suspend-individual

Syntax Description	This command has no arguments or	keywords.
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Command Default Disabled

Command Modes Interface configuration mode

 Release
 Modification

 5.2(1)N1(1)
 This command was introduced.

Usage Guidelines LACP sets a port to the suspended state if it does not receive an LACP bridge protocol data unit (BPDU) from the peer ports in a port channel. This can cause some servers to fail to boot up as they require LACP to logically bring up the port.

This command does not require a license.

Examples This example shows how to enable LACP port suspension on a port channel:

switch# configure terminal switch(config)# interface port-channel 100 switch(config-if)# shutdown switch(config-if)# lacp suspend-individual switch(config-if)#

This example shows how to disable LACP port suspension on a port channel:

switch# configure terminal switch(config)# interface port-channel 100 switch(config-if)# shutdown switch(config-if)# no lacp suspend-individual switch(config-if)#

Related Commands	Command	Description
	show lacp	Displays LACP information.
	show running-config	Displays the running system configuration.

lacp system-priority

To set the system priority of the switch for the Link Aggregation Control Protocol (LACP), use the **lacp** system-priority command. To return the system priority to the default value, use the **no** form of this command.

lacp system-priority priority

no lacp system-priority

Syntax Description	priority	Priority for the physical interfaces. The range of valid numbers is from 1 to 65535.
Command Default	System priority val	ue is 32768.
Command Modes	Global configuration	on mode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines		ins LACP has an LACP system priority value. You can configure a value between 1 uses the system priority with the MAC address to form the system ID and also during her systems.
	When setting the p	riority, note that a <i>higher</i> number means a <i>lower</i> priority.
Examples	-	ys how to set the LACP system priority for the device to 2500:
Related Commands	Command	Description
	show lacp	Displays LACP information.

link debounce

To enable the debounce timer on an interface, use the **link debounce** command. To disable the timer, use the **no** form of this command.

link debounce [time milliseconds]

no link debounce

Syntax Description	time milliseconds	(Optional) Specifies the extended debounce timer. The range is from 0 to 5000 milliseconds. A value of 0 milliseconds disables the debounce time.
Command Default	None	
Command Modes	Interface configuration	n mode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	-	he is the amount of time that an interface waits to notify the supervisor of a link his time, the interface waits to see if the link comes back up. The wait period is a opped.
<u> </u>	•	debounce timer, link up and link down detections are delayed, resulting in a loss ebounce period. This situation might affect the convergence of some protocols.
Examples	This example shows h for an Ethernet interfa	ow to enable the debounce timer and set the debounce time to 1000 milliseconds ce:
	<pre>switch# configure to switch(config)# int switch(config-if)# 3</pre>	
	This example shows h switch(config-if)# ;	ow to disable the debounce timer for an Ethernet interface: no link debounce

Related Commands	Command	Description
	show interface ethernet	Displays the interface configuration information.
	show interface debounce	Displays the debounce time information for all interfaces.

load-interval

To change the sampling interval for statistics collections on interfaces, use the **load-interval** command. To return to the default sampling interval, use the **no** form of this command.

load-interval [counter {1 | 2 | 3}] seconds

no load-interval [counter {1 | 2 | 3}] [seconds]

Syntax Description	1 2 3	Specifies the number of counters configured on the interface.	
•	seconds	Specifies the interval between sampling statistics on the interface. The range is from 30 to 300 seconds for Ethernet and port-channel interfaces.	
Command Default	1—30 seconds		
Commanu Delaun	2—300 seconds		
	3—not configur	ea	
Command Modes	Interface configuration mode		
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	 Use the load-interval command to obtain bit-rate and packet-rate statistics for three different durations. You can set the statistics collection intervals on the following types of interfaces: Ethernet interfaces Port-channel interfaces 		
	You cannot use this command on the management interface or subinterfaces.		
	This command sets the sampling interval for such statistics as packet rate and bit rate on the speci interface.		
	This command o	does not require a license.	
Examples	This example shows how to set the three sample intervals for the Ethernet port 3/1: switch# configure terminal switch(config)# interface ethernet 3/1 switch(config-if)# load-interval counter 1 60 switch(config-if)# load-interval counter 2 135 switch(config-if)# load-interval counter 3 225		

Related Commands	Command	Description
	show interface	Displays information about the interface.