LACP Commands

This chapter contains the following sections:

lacp port-priority

To set the physical port priority, use the **lacp port-priority** Interface (Ethernet) Configuration mode command. To restore the default configuration, use the **no** form of this command.

Syntax

lacp port-priority *value*

no lacp port-priority

Parameters

value—Specifies the port priority. (Range: 1–65535)

Default Configuration

The default port priority is 1.

Command Mode

Interface (Ethernet) Configuration mode

Example

The following example sets the priority of gi1/0/6.

```
switchxxxxxx(config)#  interface gi1/0/6
switchxxxxxx(config-if)#  lacp port-priority 247
```

lacp system-priority

To set the system priority, use the **lacp system-priority** Global Configuration mode command. To restore the default configuration, use the **no** form of this command.

Syntax

lacp system-priority *value*

no lacp system-priority

Parameters

value—Specifies the system priority value. (Range: 1–65535)

Default Configuration

The default system priority is 1.

Command Mode

Global Configuration mode

Example

The following example sets the system priority to 120.

```
switchxxxxxx(config)#  lacp system-priority 120
```

lacp timeout

To assign an administrative LACP timeout to an interface, use the **lacp timeout** Interface (Ethernet) Configuration mode command. To restore the default configuration, use the **no** form of this command.

Syntax

lacp timeout *{***long** | **short***}*

no lacp timeout

Parameters

- **long**—Specifies the long timeout value.
- **short**—Specifies the short timeout value.

Default Configuration

The default port timeout value is Long.

Command Mode

Interface (Ethernet) Configuration mode

Example

The following example assigns a long administrative LACP timeout to gi1/0/6.

```
switchxxxxxx(config)#  interface gi1/0/6
switchxxxxxx(config-if)#  lacp timeout long
```

show lacp

To display LACP information for all Ethernet ports or for a specific Ethernet port, use the **show lacp** Privileged EXEC mode command.

Syntax

show lacp *interface-id [***parameters** | **statistics** | **protocol-state**]

Parameters

- **interface-id**—Specify an interface ID. The interface ID must be an Ethernet port
- **parameters**—(Optional) Displays parameters only.
- **statistics**—(Optional) Displays statistics only.
- **protocol-state**—(Optional) Displays protocol state only.

Command Mode

Privileged EXEC mode

Example

The following example displays LACP information for gi1/0/1.

```
switchxxxxxx#  show lacp ethernet gi1/0/1

Port gi1/0/1 LACP parameters:

      Actor

            system priority:            1
            system mac addr:            00:00:12:34:56:78
            port Admin key:             30
            port Oper key:              30
            port Oper number:           21
            port Admin priority:        1
            port Oper priority:         1
            port Admin timeout:         LONG
            port Oper timeout:          LONG
            LACP Activity:              ACTIVE
            Aggregation:                AGGREGATABLE
            synchronization:            FALSE
            collecting:                 FALSE
            distributing:               FALSE
            expired:                    FALSE

      Partner
```

		system priority: system mac addr: port Admin key: port Oper key: port Oper number: port Admin priority: port Oper priority: port Admin timeout: port Oper timeout: LACP Activity: Aggregation: synchronization: collecting: distributing: expired:	0 00:00:00:00:00:00 0 0 0 0 0 LONG LONG PASSIVE AGGREGATABLE FALSE FALSE FALSE FALSE
Port gi1/0/1 LACP Statistics: LACP PDUs sent: LACP PDUs received:			2 2
Port gi1/0/1 LACP Protocol State:			
	LACP State Machines:		
		Receive FSM: Mux FSM:	Port Disabled State Detached State
	Control Variables:		
		BEGIN: LACP_Enabled: Ready_N: Selected: Port_moved: NNT: Port_enabled:	FALSE TRUE FALSE UNSELECTED FALSE FALSE FALSE
	Timer counters:		
		periodic tx timer: current while timer: wait while timer:	0 0 0

show lacp port-channel

To display LACP information for a port-channel, use the **show lacp port-channel** Privileged EXEC mode command.

Syntax

show lacp port-channel *[port_channel_number]*

Parameters

port_channel_number—(Optional) Specifies the port-channel number.

Command Mode

Privileged EXEC mode

Example

The following example displays LACP information about port-channel 1.

switchxxxxxx# **show lacp port-channel 1**			
Port-Channel 1:Port Type 1000 Ethernet			
	Actor		
		System Priority: MAC Address: Admin Key: Oper Key:	1 000285:0E1C00 29 29
	Partner		
		System Priority: MAC Address: Oper Key:	0 00:00:00:00:00:00 14