

cnMatrix Link Aggregation Parameters and Commands

Commands	Description	CLI Mode
<code>lacp system-priority <0-65535></code>	Configures the LACP priority.	Global Configuration
<code>lacp system-identifier <aa:aa:aa:aa:aa:aa></code>	Configures the unicast MAC address value.	Global Configuration
<code>lacp port-priority <0-65535></code>	Configures the LACP port priority.	Interface Configuration (Physical Interface)
<code>lacp port-identifier <1-65535></code>	Configures the port identifier.	Interface Configuration (Physical Interface)
<code>channel-group <channel-group-number(1-65535)> Mode { on active passive }</code> Available options: <ul style="list-style-type: none"> • <code><channel-group-number(1-65535)></code> - Adds the port as a member of the specified port channel. • <code>active</code> - Starts LACP negotiation un-conditionally. • <code>passive</code> - Starts LACP negotiation only when LACP packet is received from peer. • <code>on</code> - Forces the interface to channel without LACP. 	Adds the port as a member of the specified port channel that is already created in the switch.	Interface Configuration (Physical Interface)
<code>lacp wait-time <0-10></code>	Configures the LACP wait-time for an interface.	Interface Configuration (Physical Interface)
<code>lacp timeout {long short }</code> Available options: <ul style="list-style-type: none"> • <code>long</code> - Configures the LACP timeout period as 90 seconds. • <code>short</code> - Configures the LACP timeout period as 3 seconds. 	Configures the LACP timeout period.	Interface Configuration (Physical Interface)
<code>lacp rate {normal fast }</code> Available options: <ul style="list-style-type: none"> • <code>normal</code> - LACP PDU should be received every 30 seconds and the timeout value (no packet is received from peer) is set as 90 seconds. • <code>fast</code> - LACP PDU should be received every 1 second and timeout value is set as 3 seconds. 	Configures the LACP rate.	Interface Configuration (Physical Interface)
<code>lacp admin-key <(Admin Key)1-65535> [Mode {active passive}]</code> Available options: <ul style="list-style-type: none"> • <code>admin-key</code> - Configures the LACP actor admin key that is used while port participates in dynamic aggregation selection. 	Configures the LACP actor admin key and LACP Mode for a port.	Interface Configuration (Physical Interface)

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<ul style="list-style-type: none"> [Mode {active passive}] - active - Starts LACP negotiation unconditionally / passive - Starts LACP negotiation only when LACP packet is received from peer. 		
<pre>port-channel max-ports <integer (2-8)></pre>	Configures the maximum number of ports that can be attached to a port channel.	Interface Configuration (Physical Interface)
<pre>debug lacp [{ init-shutdown mgmt data events packet os failall buffer all }]</pre> <p>Available options:</p> <ul style="list-style-type: none"> init-shutdown - Generates debug statements for init and shutdown traces. mgmt - Generates debug statements for management traces. data - Generates debug statements for data path traces. events - Generates debug statements for event traces. packet - Generates debug statements for packet dump traces. os - Generates debug statements for OS resource related traces. buffer - Generates debug statements for buffer related traces. all - Generates debug statements for all kinds of traces. 	Enables the tracing of the LACP as per the configured debug levels.	Privileged EXEC
<pre>debug etherchannel {[all] [detail] [error] [event] [idb]}</pre> <p>Available options:</p> <ul style="list-style-type: none"> all - Generates debug statements for all kinds of traces. detail - Generates detailed debug statements for traces. error - Generates debug statements for all failure traces. event - Generates debug statements for event traces. idb - Generates debug statements for interface descriptor block traces. 	Enables the tracing of the link aggregation module as per the configured debug levels.	Privileged EXEC
<pre>show etherchannel <channel-group-number(1-65535)> { detail load-balance port port-channel summary protocol }</pre> <p>Available options:</p> <ul style="list-style-type: none"> detail - Displays detailed Etherchannel information. port - Displays the status of protocol operate Mode and port details for each group. port-channel - Displays the admin and operational status of port channel module, and port channel details. protocol - Displays the status of protocol operate Mode for each 	Displays etherchannel information for the specified port-channel groups created in the switch.	Privileged EXEC

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port-channel group. <ul style="list-style-type: none"> summary - Displays the admin and operational status of port channel module, number of channel groups used, number of aggregators, group IDs, and port channel ID, status of protocol operate Mode and member ports for each group. 		
show etherchannel	Displays etherchannel information for port-channels created in the switch.	Privileged EXEC
show interfaces [<interface-type> <interface-id>] etherchannel	Displays etherchannel details for all aggregated ports and port channels.	Privileged EXEC
show lacp [<port-channel(1-65535)>] { counters neighbor [detail] } Available options: <ul style="list-style-type: none"> <port-channel(1-65535)> - Displays LACP counter / neighbor information for the specified port-channel. counters - Displays the LACP counter information. neighbor [detail] - neighbor - Displays LACP neighbor information. 	Displays LACP counter / neighbor information for all port-channels.	Privileged EXEC