New and Changed Information

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Your software release might not support all the features in this document. For the latest caveats and feature information, see the Bug Search Tool at https://tools.cisco.com/bugsearch/ and the release notes for your software release.

Table 1: New and Changed Interfaces Features

Feature Name	Description	Changed in Release
Upgrading Line Card Module for vPC	Added support for upgrading line card module for vPC.	7.3(0)DX(1)
Per-link BFD	Added Per-link Bidirectional Forwarding feature support that enables users to configure individual BFD sessions on every Link Aggregation Group member interfaces (as defined in RFC 7130).	7.3(0)D1(1)
Hitless STP for vPC Role Change	Added support for hitless STP for vPC role change.	7.3(0)D1(1)
Asynchronous Link Debounce	Added support for setting separate values for debounce up and debounce down links.	7.3(0)D1(1)
BFD Support for HSPRv6	Added BFD support for HSPRv6.	7.3(0)D1(1)
Port Channel (Random Load Balancing)	Added support for random load balancing on port channels.	7.3(0)D1(1)

Feature Name	Description	Changed in Release
Ethernet OAM	Ethernet OAM features allow Service Providers to monitor the quality of the connections on a MAN or WAN. Service providers can monitor specific events, take actions on events, and if necessary, put specific interfaces into loopback mode for troubleshooting. Ethernet OAM operates on a single, physical link and it can be configured to monitor either side or both sides of that link.	7.3(0)D1(1)
vPC Shutdown	Added the **shutdown** command that shuts down the peer to isolate it for debugging, reloading, or physically removing it from the vPC complex, and enables the peer vPC switch to take over as the primary peer.	7.2(0)D1(1)
Physical Port vPC on F3	Added support for physical port vPCs for F3	7.2(0)D1(1)
1500 host vPC for FEX (Physical Port vPC on FEX)	Added support for this feature.	7.2(0)D1(1)
vPC Configuration Synchronization	Added support for the vPC Configuration Synchronization feature.	7.2(0)D1(1)
Layer 3 over vPC for F2, F2E and F3 Modules	Added support for this feature.	7.2(0)D1(1)
Support for BFD over Layer 2 Over a Fabricpath Core	Added support for BFD over Layer 2 over a fabricpath core.	7.2(0)D1(1)
Support for BFD over SVI Over Fabricbath Core	Added support for BFD over SVI over Fabricbath core.	7.2(0)D1(1)
GRE Tunnels	Added support for F3 Series modules.	6.2(10)
Native VLAN Tagging on Trunk Ports	Added support for the **switchport trunk native vlan tag** command and added the **exclude control** keywords to the **vlan dot1q tag native** command.	6.2(10)
LAN Shutdown	Added the **shutdown lan** command to support this feature.	6.2(6)

Feature Name	Description	Changed in Release
FCoE Over Physical Port vPC	Added support for this feature.	6.2(6)
Physical Port VPCs	Added support for physical port vPCs on the physical interface of vPC peer devices.	6.2(6)
BFD for IPv6 Static	Added support for configuring BFD for IPv6 static routes on an interface.	6.2(2a)
FEX	Cisco Fabric Extenders support Layer 3 protocol adjacencies on host interfaces (HIFs) and DSCP to queue mapping. Before Cisco NX-OS Release 6.2(2), you can configure a Fabric Extender (FEX) port as a Layer 3 interface for host connectivity, but not for routing.	6.2(2)
Error Disabled	Added the ability to view error disabled recovery and detection runtime information.	6.2(2)
Show Interface Status Error Policy	Allows you to view information about interfaces and VLANS that receive an error during policy programming.	6.2(2)
Clear SNMP Counters From an Interface	Added the ability to clear SNMP counters from the interface.	6.2(2)
SVI Autostate Disable	Allows you to disable SVI autostate behavior by allowing an SVI to stay up even if no interface is up in the corresponding VLAN.	6.2(2)
BFD on IPv6	Added support for BFD on IPv6.	6.2(2)
BFD on OSPFv3	Added support for BFD on OPSPv3.	6.2(2)
BFD on IS-ISv6	Added support for BFD on IS-ISv6.	6.2(2)
Asymmetric	Allows you to change the hash mechanism in F2 or F2e modules to asymmetric (symmetric by default), which prevents traffic-drop occurring during bi-directional forwarding and improves load balancing.	6.2(2)

Feature Name	Description	Changed in Release
Mode Auto Command	Allows you to enable certain commands simultaneously.	6.2(2)
Multicast Load Balance	Allows two peers to be partially designated forwarders when both vPC paths are up.	6.1(3)
Result Bundle Hash Load Balancing	Added support for the RBH modulo mode to improve load balancing across port channels.	6.1(3)
Minimum Links for FEX Fabric Port Channel	Added the ability to configure a minimum number of links for the FEX fabric port channel.	6.1(3)
Slow Drain Device Detection and Congestion Avoidance	Added support for the slow drain device detection feature.	6.1(1)
BFD Support on F2 Series and M2 Series Modules	Added support for F2 Series and M2 Series modules.	6.1(1)
There are no changes since Release 5.2(1)	-	-
Fabric Extender (FEX)	Fabric Extender ports have Layer 3 support for host connectivity, and vPCs can be configured through Fabric Extenders (Host vPC).	5.2(1)
BFD SHA1 Authentication	Supports SHA-1 authentication of BFD packets.	5.2(1)
Default Interfaces	Allows you to clear the existing configuration of multiple interface types.	5.2(1)
SVI Autostate Exclude	Allows you to exclude a port from the VLAN interface link-up calculation when there are multiple ports in the VLAN.	5.2(1)
vPC	Configures auto recovery support, provides system display of MST to VLAN consistency failures, FabricPath configuration support, and a vPC connection to Cisco 2000 Series Fabric Extenders.	5.2(1)
Rate Limits	Configures rate limits for packets that reach the supervisor.	5.1(1)

Feature Name	Description	Changed in Release
Inband Management in the Nexus Chassis	Configures inband management in the Cisco Nexus 7000 switches when there are only F1 series module in the chassis.	5.1(1)
F1 Series Modules and M1 Series Modules for the Port Channel	Supports bundling of 16 active ports simultaneously into a port channel on the F series module. On the M Series module, you can bundle up to 8 active and 8 standby.	5.1(1)
LACP Port-Channel MinLinks and MaxBundle	Configures LACP port-channel minlinks and LACP port-channel maxbundle.	5.1(1)
BFD	Makes network profiling and planning easier and reconvergence time consistent and predictable.	5.0(2)
Q-in-Q Tunneling	Enables the segregation of traffic for different customers while still giving you a full range of VLANs for your use.	5.0(2)
vPC and STP Convergence	Supports bringing up the vPC on a switch when its peer fails to function. Enables the vPC switch pair to appear as a single STP root in the Layer 2 topology.	5.0(2)