



## New and Changed Information

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This chapter provides release-specific information for each new and changed feature in the *Cisco Nexus 5000 Series NX-OS Layer 2 Interfaces Command Reference*. The latest version of this document is available at the following Cisco website:

[http://www.cisco.com/en/US/products/ps9670/prod\\_command\\_reference\\_list.html](http://www.cisco.com/en/US/products/ps9670/prod_command_reference_list.html)

To check for additional information about this Cisco NX-OS Release, see the *Cisco Nexus 5000 Series Switch Release Notes* available at the following Cisco website:

[http://www.cisco.com/en/US/products/ps9670/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/ps9670/prod_release_notes_list.html)

## New and Changed Information for Cisco NX-OS Releases

This section includes the following topics:

- [New and Changed Information for Cisco NX-OS Release 5.2\(1\)N\(1\)](#), page xix
- [New and Changed Information for Cisco NX-OS Release 5.1\(3\)N1\(1a\)](#), page xx
- [New and Changed Information for Cisco NX-OS Release 5.1\(3\)N1\(1\)](#), page xx
- [New and Changed Information for Cisco NX-OS Release 5.0\(3\)N2\(1\)](#), page xxiv
- [New and Changed Information for Cisco NX-OS Release 5.0\(3\)N1\(1\)](#), page xxv
- [New and Changed Information for Cisco NX-OS Release 5.0\(2\)N2\(1\)](#), page xxvi
- [New and Changed Information for Cisco NX-OS Release 5.0\(2\)N1\(1\)](#), page xxvii
- [New and Changed Information for Cisco NX-OS Release 4.2\(1\)N2\(1\)](#), page xxvii
- [New and Changed Information for Cisco NX-OS Release 4.2\(1\)N1\(1\)](#), page xxviii
- [New and Changed Information for Cisco NX-OS Release 4.0\(1a\)N2\(1\)](#), page xxviii
- [New and Changed Information for Cisco NX-OS Release 4.0\(1a\)N1\(1\)](#), page xxix
- [New and Changed Information for Cisco NX-OS Release 4.0\(0\)N1\(1a\)](#), page xxix

## New and Changed Information for Cisco NX-OS Release 5.2(1)N(1)

[Table 1](#) summarizes the new and changed features for Cisco NX-OS Release 5.2(1)N1(1) and tells you where they are documented.

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**Table 1** *New and Changed Information for Release 5.0(3)N2(1)*

Feature	Description	Where Documented
Dynamic system reserved VLAN range	This feature was introduced.	<a href="#">system vlan reserve, page 258</a> <a href="#">show system vlan reserved, page 399</a>

## New and Changed Information for Cisco NX-OS Release 5.1(3)N1(1a)

[Table 2](#) summarizes the new and changed features for Cisco NX-OS Release 5.2(1)N1(1a) and tells you where they are documented.

**Table 2** *New and Changed Information for Release 5.0(3)N2(1)*

Feature	Description	Where Documented
VLAN configuration	This feature was introduced.	<a href="#">vlan configuration, page 433</a>

## New and Changed Information for Cisco NX-OS Release 5.1(3)N1(1)

[Table 3](#) summarizes the new and changed features for Cisco NX-OS Release 5.1(3)N1(1) and tells you where they are documented.

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**Table 3**      ***New and Changed Information for Release 5.1(3)/N1(1)***

<b>Feature</b>	<b>Description</b>	<b>Where Documented</b>
Adapter Fabric Extender (Adapter-FEX)	<p>This feature was introduced.</p> <p>The following Adapter-FEX commands were introduced:</p> <ul style="list-style-type: none"> <li>• <b>feature-set virtualization</b></li> <li>• <b>interface vethernet</b></li> <li>• <b>bind</b></li> <li>• <b>vethernet auto-create</b></li> <li>• <b>show interface vethernet counters</b></li> <li>• <b>show interface vethernet</b></li> <li>• <b>show running-config interface vethernet</b></li> </ul> <p>The following Adapter-FEX-related commands were updated:</p> <ul style="list-style-type: none"> <li>• <b>shutdown</b></li> <li>• <b>switchport mode</b></li> <li>• <b>show running-config interface</b></li> </ul>	<a href="#">bind (virtual Ethernet interface)</a> <a href="#">feature-set virtualization</a> <a href="#">interface vethernet</a> <a href="#">shutdown</a> <a href="#">switchport mode</a> <a href="#">vethernet auto-create</a> <a href="#">show interface vethernet</a> <a href="#">show running-config interface</a>
Encapsulated Remote Switched Port Analyzer (ERSPAN)	<p>This feature was introduced.</p> <p>The following commands were introduced:</p> <ul style="list-style-type: none"> <li>• <b>destination (ERSPAN)</b></li> <li>• <b>erspan-id</b></li> <li>• <b>monitor erspan origin ip-address</b></li> <li>• <b>shut (ERSPAN)</b></li> <li>• <b>vrf (ERSPAN)</b></li> </ul> <p>The following commands were updated:</p> <ul style="list-style-type: none"> <li>• <b>description (SPAN, ERSPAN)</b></li> <li>• <b>monitor session</b></li> <li>• <b>source (SPAN, ERSPAN)</b></li> <li>• <b>show monitor session</b></li> </ul>	<a href="#">description (SPAN, ERSPAN)</a> <a href="#">destination (ERSPAN)</a> <a href="#">erspan-id</a> <a href="#">monitor erspan origin ip-address</a> <a href="#">monitor session</a> <a href="#">shut (ERSPAN)</a> <a href="#">source (SPAN, ERSPAN)</a> <a href="#">vrf (ERSPAN)</a> <a href="#">show monitor session</a>
Clock protocol	<p>This feature was introduced to synchronize the clock protocol.</p> <p>The following command was added:</p> <ul style="list-style-type: none"> <li>• <b>clock protocol</b></li> </ul>	<a href="#">clock protocol</a>

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**Table 3**      ***New and Changed Information for Release 5.1(3)N1(1) (continued)***

Feature	Description	Where Documented
Virtual Ethernet interfaces	This feature was introduced.	<a href="#">bind (virtual Ethernet interface)</a> <a href="#">capability (virtual Ethernet interface)</a> <a href="#">cdp enable</a> <a href="#">default shutdown (virtual Ethernet interface)</a> <a href="#">description (interface)</a> <a href="#">high-performance host-netio (virtual Ethernet interface)</a> <a href="#">install feature-set virtualization</a> <a href="#">interface vethernet</a> <a href="#">pinning id (virtual Ethernet interface)</a> <a href="#">shutdown</a> <a href="#">switchport access vlan</a> <a href="#">switchport block</a> <a href="#">switchport mode</a> <a href="#">switchport mode private-vlan host</a> <a href="#">switchport private-vlan host-association</a> <a href="#">switchport private-vlan mapping</a> <a href="#">switchport trunk allowed vlan</a> <a href="#">switchport trunk native vlan</a> <a href="#">vethernet auto-create</a> <a href="#">vmware (virtual Ethernet interface)</a> <a href="#">vsi (virtual Ethernet interface)</a> <a href="#">svs veth auto-delete</a> <a href="#">svs veth auto-setup</a> <a href="#">show interface vethernet</a> <a href="#">show interface vethernet counters</a> <a href="#">show interface virtual</a>
Cisco Virtual Machine Fabric Extender (VM-FEX)	This feature was introduced.	<a href="#">feature vmfex</a> <a href="#">feature-set virtualization</a> <a href="#">install feature-set virtualization</a> <a href="#">interface vethernet</a>

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**Table 3**      ***New and Changed Information for Release 5.1(3)N1(1) (continued)***

Feature	Description	Where Documented
Multicast VLAN Registration (MVR)	This feature was introduced.	<a href="#">mvr group</a> <a href="#">mvr type</a> <a href="#">mvr vlan</a> <a href="#">show mvr</a> <a href="#">show mvr groups</a> <a href="#">show mvr interface</a> <a href="#">show mvr members</a> <a href="#">show mvr receiver-ports</a> <a href="#">show mvr source-ports</a>
Ethernet Port Security	This feature was introduced.	<a href="#">clear port-security dynamic</a> <a href="#">feature port-security</a> <a href="#">switchport port-security</a> <a href="#">switchport port-security aging</a> <a href="#">switchport port-security mac-address</a> <a href="#">switchport port-security maximum</a> <a href="#">switchport port-security violation</a> <a href="#">show port-security</a> <a href="#">show running-config port-security</a> <a href="#">show startup-config port-security</a>
FCoE over Adapter-FEX	This feature was introduced to connect a VMware vCenter Server to a Cisco Nexus 5000 Series switch.	<a href="#">connect</a> <a href="#">dvs-name</a> <a href="#">extension-key</a> <a href="#">install certificate</a> <a href="#">protocol vmware-vim</a> <a href="#">remote hostname</a> <a href="#">remote ip address</a> <a href="#">remote port</a> <a href="#">remote vrf</a> <a href="#">svs connection</a> <a href="#">svs veth auto-delete</a> <a href="#">svs veth auto-setup</a> <a href="#">vmware dvs</a> <a href="#">show svs connections</a>

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**Table 3** *New and Changed Information for Release 5.1(3)N1(1) (continued)*

Feature	Description	Where Documented
Management SVI	This feature was introduced.	<a href="#">management</a> <a href="#">show interface mgmt</a>
Spanning Tree Protocol (STP) pseudo parameters	<p>This feature was introduced to configure spanning tree pseudo parameters for Layer 2 gateway switches. The following commands were introduced:</p> <ul style="list-style-type: none"> <li>• <b>mst (STP)</b></li> <li>• <b>spanning-tree pseudo-information</b></li> <li>• <b>vlan (STP)</b></li> </ul> <p>The following command was updated:</p> <ul style="list-style-type: none"> <li>• <b>show running-config spanning-tree</b></li> </ul>	<a href="#">mst (STP)</a> <a href="#">spanning-tree pseudo-information</a> <a href="#">vlan (STP)</a> <a href="#">show running-config spanning-tree</a>
Spanning Tree Protocol (STP) enhancements	<p>The following commands were introduced:</p> <ul style="list-style-type: none"> <li>• <b>spanning-tree bridge assurance</b></li> <li>• <b>spanning-tree domain</b></li> <li>• <b>spanning-tree mst pre-standard</b></li> <li>• <b>spanning-tree vlan cost</b></li> <li>• <b>spanning-tree vlan port-priority</b></li> </ul>	<a href="#">spanning-tree bridge assurance</a> <a href="#">spanning-tree domain</a> <a href="#">spanning-tree mst pre-standard</a> <a href="#">spanning-tree vlan cost</a> <a href="#">spanning-tree vlan port-priority</a>
Interface speed enhancement	<p>Interface speed of 100 Mbps and the <b>auto</b> keyword was introduced.</p> <p>The following command was updated:</p> <ul style="list-style-type: none"> <li>• <b>speed (interface)</b></li> </ul>	<a href="#">speed (interface)</a>
Interface VLAN enhancement	You can set the carrier delay on a serial interface.	<a href="#">carrier-delay</a>
Interface duplex mode	This feature was introduced.	<a href="#">duplex</a>
Interface statistics collection interval	This feature was introduced.	<a href="#">load-interval</a>
Link Aggregation Control Protocol (LACP) graceful convergence	<p>The following command was added:</p> <ul style="list-style-type: none"> <li>• <b>lacp graceful-convergence</b></li> </ul>	<a href="#">lacp graceful-convergence</a>

## New and Changed Information for Cisco NX-OS Release 5.0(3)N2(1)

[Table 4](#) summarizes the new and changed features for Cisco NX-OS Release 5.0(3)N2(1) and tells you where they are documented.

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**Table 4** *New and Changed Information for Release 5.0(3)N2(1)*

Feature	Description	Where Documented
Flex Links	This feature was introduced.  Flex Links, which are two Layer 2 interfaces, where one interface is configured to act as a backup to the other.	<a href="#">feature flexlink</a> <a href="#">switchport backup interface</a> <a href="#">show interface switchport backup</a> <a href="#">show running-config backup</a> <a href="#">show running-config flexlink</a> <a href="#">show startup-config backup</a> <a href="#">show startup-config flexlink</a> <a href="#">show tech-support</a>
Configurable Hash Polynomial	This feature was introduced on a Cisco Nexus 5548 switch and Cisco Nexus 5596 switch.	<a href="#">port-channel load-balance ethernet</a>
Switchport enhancements	Support was added to configure the switch to override the priority of frames arriving on the Cisco IP phone port from connected devices.	<a href="#">switchport priority extend</a>
Voice VLAN	This feature was introduced.	<a href="#">switchport voice vlan</a>

## New and Changed Information for Cisco NX-OS Release 5.0(3)N1(1)

[Table 5](#) summarizes the new and changed features for Cisco NX-OS Release 5.0(3)N1(1) and tells you where they are documented.

**Table 5** *New and Changed Information for Release 5.0(3)N1(1)*

Feature	Description	Where Documented
SPAN enhancements	Rate limited Switched Port Analyzer (SPAN) is supported on Cisco Nexus 5010 Series and Cisco Nexus 5020 Series switches.  Added the <b>switchport monitor rate-limit</b> command.	<a href="#">switchport monitor rate-limit</a>
LLDP	The Link Layer Discovery Protocol (LLDP) is enabled by default on a Cisco NX-OS switch.	<a href="#">feature lldp</a>

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**Table 5** *New and Changed Information for Release 5.0(3)N1(1) (continued)*

Feature	Description	Where Documented
Layer 3 interfaces	<p>This feature was introduced.</p> <p>The following Layer 3 interface commands were introduced:</p> <ul style="list-style-type: none"> <li>• <b>encapsulation dot1q</b></li> <li>• <b>interface ethernet (Layer 3)</b></li> <li>• <b>interface loopback</b></li> <li>• <b>interface vlan</b></li> <li>• <b>no switchport</b></li> </ul> <p>The following commands were updated to include support for Layer 3 interfaces and subinterfaces:</p> <ul style="list-style-type: none"> <li>• <b>bandwidth (interface)</b></li> <li>• <b>delay (interface)</b></li> <li>• <b>description (interface)</b></li> <li>• <b>interface port-channel</b></li> <li>• <b>shutdown</b></li> <li>• <b>show interface brief</b></li> <li>• <b>show interface ethernet</b></li> <li>• <b>show interface port-channel</b></li> </ul>	<p><a href="#">bandwidth (interface)</a></p> <p><a href="#">delay (interface)</a></p> <p><a href="#">description (interface)</a></p> <p><a href="#">encapsulation dot1Q</a></p> <p><a href="#">interface ethernet (Layer 3)</a></p> <p><a href="#">interface loopback</a></p> <p><a href="#">interface port-channel</a></p> <p><a href="#">interface vlan</a></p> <p><a href="#">no switchport</a></p> <p><a href="#">shutdown</a></p> <p><a href="#">Show Commands</a></p>
Unified ports	Support was added to configure unified ports on a Cisco Nexus 5548UP switch or Cisco Nexus 5596UP switch.	<a href="#">port</a>

## New and Changed Information for Cisco NX-OS Release 5.0(2)N2(1)

[Table 6](#) summarizes the new and changed features for Cisco NX-OS Release 5.0(2)N2(1) and tells you where they are documented.



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**Table 6** *New and Changed Information for Release 5.0(2)N2(1)*

Feature	Description	Where Documented
Support for VTP client and server device mode, VTP file and password, and VTP on an interface	<p>You can configure the VTP device mode as client, server, or off.</p> <p>You can also configure the VTP database file or set the password for the VTP administrative domain. You can enable VTP on an interface.</p>	<a href="#">clear vtp counters</a> <a href="#">vtp (interface)</a> <a href="#">vtp file</a> <a href="#">vtp mode</a> <a href="#">vtp password</a> <a href="#">vtp version</a> <a href="#">Show Commands</a>
Force addition of an interface into a channel group	You can force the addition of the interface into the specified channel group.	<a href="#">channel-group (Ethernet)</a> <a href="#">Show Commands</a>

## New and Changed Information for Cisco NX-OS Release 5.0(2)N1(1)

[Table 7](#) summarizes the new and changed features for Cisco NX-OS Release 5.0(2)N1(1) and tells you where they are documented.

**Table 7** *New and Changed Information for Release 5.0(2)N1(1)*

Feature	Description	Where Documented
Support for Fabric Extender preprovisioning	You can preprovision a module in a chassis slot of a Cisco Nexus 2000 Series Fabric Extender.	<a href="#">provision</a> <a href="#">slot</a> <a href="#">show provision</a> <a href="#">show running-config</a> <a href="#">exclude-provision</a> <a href="#">show startup-config</a> <a href="#">exclude-provision</a>
Link Aggregation Control Protocol (LACP) port suspension	<p>The following command was added:</p> <ul style="list-style-type: none"> <li><b>lACP suspend-individual</b></li> </ul>	<a href="#">lACP suspend-individual</a>
SNMP notification for VTP domain	You can enable SNMP notifications for a VTP domain.	<a href="#">snmp-server enable traps vtp</a>

## New and Changed Information for Cisco NX-OS Release 4.2(1)N2(1)

[Table 8](#) summarizes the new and changed features for Cisco NX-OS Release 4.2(1)N2(1) and tells you where they are documented.

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**Table 8** *New and Changed Information for Release 4.2(1)N2(1)*

Feature	Description	Where Documented
Hardware Hashing	This feature was introduced.	<a href="#">hardware multicast hw-hash</a>
Link Aggregation Control Protocol (LACP) enhancement	The following command was added: <ul style="list-style-type: none"> <li><b>lacp rate fast</b></li> </ul>	<a href="#">lacp rate fast</a>

## New and Changed Information for Cisco NX-OS Release 4.2(1)N1(1)

[Table 9](#) summarizes the new and changed features for Cisco NX-OS Release 4.2(1)N1(1) and tells you where they are documented.

**Table 9** *New and Changed Information for Release 4.2(1)N1(1)*

Feature	Description	Where Documented
Layer 2 interface	Support for error-disable (err-disabled) detection was introduced.	<a href="#">errdisable detect cause</a> <a href="#">errdisable recovery cause</a> <a href="#">errdisable recovery interval</a> <a href="#">Show Commands</a>
Ethernet Switched Port Analyzer (SPAN)	The following commands were updated: <ul style="list-style-type: none"> <li><b>monitor session</b></li> </ul>	<a href="#">monitor session</a>
MAC Address Table	The following commands were updated: <ul style="list-style-type: none"> <li><b>clear mac address-table dynamic</b></li> <li><b>mac address-table aging-time</b></li> <li><b>mac address-table notification</b></li> <li><b>mac address-table static</b></li> </ul>	<a href="#">clear mac address-table dynamic</a> <a href="#">mac address-table aging-time</a> <a href="#">mac address-table notification</a> <a href="#">mac address-table static</a> <a href="#">Show Commands</a>
VLAN Trunking Protocol (VTP)	This feature was introduced.	<a href="#">clear vtp counters</a> <a href="#">feature vtp</a> <a href="#">vtp domain</a> <a href="#">vtp mode</a> <a href="#">vtp version</a> <a href="#">Show Commands</a>

## New and Changed Information for Cisco NX-OS Release 4.0(1a)N2(1)

[Table 10](#) summarizes the new and changed features for Cisco NX-OS Release 4.0(1a)N2(1) and tells you where they are documented.

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**Table 10**      ***New and Changed Information for Release 4.0(1a)N2(1)***

Feature	Description	Where Documented
Layer 2 interface	The following command was updated: <ul style="list-style-type: none"> <li>• <b>inteface ethernet</b></li> </ul>	<a href="#">interface ethernet</a>

## New and Changed Information for Cisco NX-OS Release 4.0(1a)N1(1)

[Table 11](#) summarizes the new and changed features for Cisco NX-OS Release 4.0(1a)N1(1) and tells you where they are documented.

**Table 11**      ***New and Changed Information for Release 4.0(1a)N1(1)***

Feature	Description	Where Documented
Layer 2 interface	The following commands were introduced: <ul style="list-style-type: none"> <li>• <b>speed (interface)</b></li> </ul> The following command was deprecated:: <ul style="list-style-type: none"> <li>• <b>svi enable</b></li> </ul>	<a href="#">speed (interface)</a> <a href="#">svi enable</a>
Unidirectional Link Detection (UDLD)	This feature was introduced.	<a href="#">feature udld</a> <a href="#">udld (configuration mode)</a> <a href="#">udld (Ethernet)</a> <a href="#">show udld</a>

## New and Changed Information for Cisco NX-OS Release 4.0(0)N1(1a)

[Table 12](#) summarizes the new and changed features for Cisco NX-OS Release 4.0(0)N1(1a) and tells you where they are documented.

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**Table 12**      ***New and Changed Information for Release 4.0(0)N1(1a)***

Feature	Description	Where Documented
Layer 2 Ethernet interface	This feature was introduced.	<a href="#">bandwidth (interface)</a> <a href="#">cdp</a> <a href="#">cdp enable</a> <a href="#">channel-group (Ethernet)</a> <a href="#">delay (interface)</a> <a href="#">description (interface)</a> <a href="#">feature interface-vlan</a> <a href="#">instance vlan</a> <a href="#">interface ethernet</a> <a href="#">interface mgmt</a> <a href="#">ip igmp snooping (EXEC)</a> <a href="#">ip igmp snooping (VLAN)</a> <a href="#">link debounce</a> <a href="#">shutdown</a> <a href="#">svi enable</a> <a href="#">Show Commands</a>
Port Channel	This feature was introduced.	<a href="#">interface port-channel</a> <a href="#">port-channel load-balance ethernet</a> <a href="#">Show Commands</a>
Link Aggregation Control Protocol (LACP)	This feature was introduced.	<a href="#">clear lacp counters</a> <a href="#">feature lacp</a> <a href="#">lacp port-priority</a> <a href="#">lacp system-priority</a> <a href="#">Show Commands</a>
Link Layer Discovery Protocol (LLDP)	This feature was introduced.	<a href="#">feature lldp</a> <a href="#">Show Commands</a>
Private VLAN	This feature was introduced.	<a href="#">feature private-vlan</a> <a href="#">private-vlan</a> <a href="#">private-vlan association</a> <a href="#">private-vlan synchronize</a> <a href="#">Show Commands</a>

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**Table 12**      ***New and Changed Information for Release 4.0(0)N1(1a) (continued)***

<b>Feature</b>	<b>Description</b>	<b>Where Documented</b>
MAC Address Table	This feature was introduced.	<a href="#">clear mac access-list counters</a> <a href="#">clear mac address-table dynamic</a> <a href="#">mac address-table aging-time</a> <a href="#">mac address-table notification</a> <a href="#">mac address-table static</a> <a href="#">Show Commands</a>
Ethernet Switched Port Analyzer (SPAN)	This feature was introduced.	<a href="#">description (SPAN, ERSPAN)</a> <a href="#">destination (SPAN session)</a> <a href="#">monitor session</a> <a href="#">source (SPAN, ERSPAN)</a> <a href="#">Show Commands</a>
Spanning Tree Protocol (STP)	This feature was introduced.	<a href="#">clear spanning-tree counters</a> <a href="#">clear spanning-tree detected-protocol</a> <a href="#">revision</a> <a href="#">spanning-tree bpdupfilter</a> <a href="#">spanning-tree bpduguard</a> <a href="#">spanning-tree cost</a> <a href="#">spanning-tree guard</a> <a href="#">spanning-tree link-type</a> <a href="#">spanning-tree loopguard default</a> <a href="#">spanning-tree mode</a> <a href="#">spanning-tree pathcost method</a> <a href="#">spanning-tree port-priority</a> <a href="#">spanning-tree port type edge</a> <a href="#">spanning-tree port type edge bpdupfilter default</a> <a href="#">spanning-tree port type edge bpduguard default</a> <a href="#">spanning-tree port type edge default</a> <a href="#">spanning-tree port type network</a> <a href="#">spanning-tree port type network default</a> <a href="#">spanning-tree vlan</a> <a href="#">Show Commands</a>

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**Table 12**      ***New and Changed Information for Release 4.0(0)N1(1a) (continued)***

<b>Feature</b>	<b>Description</b>	<b>Where Documented</b>
Multiple Spanning Tree (MST)	This feature was introduced.	<a href="#">name (MST configuration)</a> <a href="#">spanning-tree mst configuration</a> <a href="#">spanning-tree mst cost</a> <a href="#">spanning-tree mst forward-time</a> <a href="#">spanning-tree mst hello-time</a> <a href="#">spanning-tree mst max-age</a> <a href="#">spanning-tree mst max-hops</a> <a href="#">spanning-tree mst port-priority</a> <a href="#">spanning-tree mst priority</a> <a href="#">spanning-tree mst root</a> <a href="#">spanning-tree mst simulate pvst</a> <a href="#">spanning-tree mst simulate pvst global</a> <a href="#">Show Commands</a>
Switchport	This feature was introduced.	<a href="#">switchport access vlan</a> <a href="#">switchport block</a> <a href="#">switchport host</a> <a href="#">switchport mode</a> <a href="#">switchport mode private-vlan host</a> <a href="#">switchport mode private-vlan promiscuous</a> <a href="#">switchport mode private-vlan trunk</a> <a href="#">switchport private-vlan association trunk</a> <a href="#">switchport private-vlan host-association</a> <a href="#">switchport private-vlan mapping</a> <a href="#">switchport private-vlan trunk allowed vlan</a> <a href="#">switchport private-vlan trunk native</a> <a href="#">Show Commands</a>

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**Table 12**      ***New and Changed Information for Release 4.0(0)N1(1a) (continued)***

Feature	Description	Where Documented
VLAN	This feature was introduced.	<a href="#">interface vlan</a> <a href="#">name (VLAN configuration)</a> <a href="#">shutdown (VLAN configuration)</a> <a href="#">state</a> <a href="#">vlan</a> <a href="#">vlan dot1Q tag native</a> <a href="#">Show Commands</a>
Virtual routing and forwarding (VRF)	This feature was introduced.	<a href="#">vrf context</a>

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