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## 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:

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## 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>	<p><a href="#">bind (virtual Ethernet interface)</a></p> <p><a href="#">feature-set virtualization</a></p> <p><a href="#">interface vethernet</a></p> <p><a href="#">shutdown</a></p> <p><a href="#">switchport mode</a></p> <p><a href="#">vethernet auto-create</a></p> <p><a href="#">show interface vethernet</a></p> <p><a href="#">show running-config interface</a></p>
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>	<p><a href="#">description (SPAN, ERSPAN)</a></p> <p><a href="#">destination (ERSPAN)</a></p> <p><a href="#">erspan-id</a></p> <p><a href="#">monitor erspan origin ip-address</a></p> <p><a href="#">monitor session</a></p> <p><a href="#">shut (ERSPAN)</a></p> <p><a href="#">source (SPAN, ERSPAN)</a></p> <p><a href="#">vrf (ERSPAN)</a></p> <p><a href="#">show monitor session</a></p>
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>	<p><a href="#">clock protocol</a></p>

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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 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 interface vethernet</a>

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

<b>Feature</b>	<b>Description</b>	<b>Where Documented</b>
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	This feature was introduced to configure spanning tree pseudo parameters for Layer 2 gateway switches. The following commands were introduced: <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> The following command was updated: <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	The following commands were introduced: <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	Interface speed of 100 Mbps and the <b>auto</b> keyword was introduced. The following command was updated: <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	The following command was added: <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)***

<b>Feature</b>	<b>Description</b>	<b>Where Documented</b>
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	<p>Support was added to configure unified ports on a Cisco Nexus 5548UP switch or Cisco Nexus 5596UP switch.</p>	<p><a href="#">port</a></p>

## **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	You can configure the VTP device mode as client, server, or off.  You can also configure the VTP database file or set the password for the VTP administrative domain. You can enable VTP on an interface.	<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	The following command was added: <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>• <code>inteface ethernet</code></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>• <code>speed (interface)</code></li> </ul> The following command was deprecated:: <ul style="list-style-type: none"> <li>• <code>svi enable</code></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)***

<b>Feature</b>	<b>Description</b>	<b>Where Documented</b>
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> Show Commands
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> Show Commands

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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>
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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