



# Introduction

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This document provides information about the IOS XE software release for the Cisco NCS 4201 and Cisco NCS 4202 beginning with Cisco IOS XE Release 3.18SP.

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## Documentation Updates

### **Cumulative Configuration Guides for Cisco IOS XE 16 Release Series**

From Cisco IOS XE Everest 16.5.1 to Cisco IOS XE Gibraltar16.12.1, technology configuration guides were published for each release and contained information specific to only that release.

For example, the *MPLS Configuration Guide Cisco IOS XE Everest 16.5.x* contained information specific to only the Cisco IOS XE Everest 16.5.x release.

However, all technology configuration guides will now contain information about all features supported by all releases of the Cisco IOS XE 16 Series.

For example, the *MPLS Configuration Guide Cisco IOS XE 16 Series* is republished and contains information about all MPLS features supported by releases from *Cisco IOS XE Everest 16.5.x to Cisco IOS XE Gibraltar 16.12.x*.

The following documents will help identify release features supported in every release:

- Feature History – A new chapter in all configuration guides. This chapter lists the features and the release in which the features are introduced or updated.
- Release Notes – This document continues to be specific for each release and carries information about the feature supported in that release.
- Feature Compatibility Matrix – A cumulative feature-release matrix, which is available on Cisco.com.
  - [Feature Compatibility Matrix for NCS 4201 and NCS 4202](#)
  - [Feature Compatibility Matrix for NCS 4206 and NCS 4216](#)

## Cisco NCS 4201 and Cisco NCS 4202 Overview

The Cisco NCS 4201 and NCS 4202 Network Convergence Systems are full-featured, compact one-RU high converged access platforms designed for the cost-effective delivery of TDM to IP or MPLS migration services. These temperature-hardened, high-throughput, small-form-factor, low-power-consumption systems are optimized for circuit emulation (CEM) and business applications. NCS 4201 and NCS 4202 chassis allow service providers to deliver dense scale in a compact form factor and unmatched CEM and Carrier Ethernet (CE) capabilities. They also provide a comprehensive and scalable feature set, supporting both Layer 2 VPN (L2VPN) and Layer 3 VPN (L3VPN) services in a compact package .

For more information on the Cisco NCS 4201 Chassis, see the [Cisco NCS 4201 Hardware Installation Guide](#).

For more information on the Cisco NCS 4202 Chassis, see the [Cisco NCS 4202 Hardware Installation Guide](#).

## Feature Navigator

You can use Cisco Feature Navigator to find information about feature, platform, and software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on cisco.com is not required.

## Hardware Supported

NCS4201 is a fixed router and does not have any field replaceable units.

The following table lists the hardware supported for Cisco NCS 4202 chassis.

Chassis	Supported Interface Modules	Part Numbers
NCS 4202	8 port T1/E1 CEM Interface Module	NCS4200-8E1T1-CE
	1 port OC-48/STM-16 or 4 port OC-12/OC-3 / STM-1/STM-4 + 12 ports T1/E1 + 4 ports T3/E3	NCS4200-3GMS
	8-Port 1GE RJ45 and 1-Port 10GE SFP+ module	NCS4200-1T8LR-PS

## Determining the Software Version

You can use the following commands to verify your software version:

- Consolidated Package— **show version**
- Individual sub-packages—**show version installed** (lists all installed packages)

**Table 1: ROMMON Version**

Release Version	ROMMON Version
16.12.8	<ul style="list-style-type: none"> <li>• NCS4201—15.6(48r)S</li> <li>• NCS4202—15.6(46r)S</li> </ul>
16.12.7	<ul style="list-style-type: none"> <li>• NCS4201—15.6(48r)S</li> <li>• NCS4202—15.6(46r)S</li> </ul>
16.12.6	<ul style="list-style-type: none"> <li>• NCS4201—15.6(48r)S</li> <li>• NCS4202—15.6(46r)S</li> </ul>
16.12.5	<ul style="list-style-type: none"> <li>• NCS4201—15.6(32r)S</li> <li>• NCS4202—15.6(24r)S</li> </ul>

## Bundled FPGA Versions

The following are HoFPGA versions bundled in the IOS:

- NCS4201—0X00030015
- NCS4202
  - BFD—0X0003001c

- Netflow—0X00020008

The following is the CEM FPGA version:

- NCS4202—0x10050071

The following are HoFPGA versions bundled in IOS for 16.12.8, 16.12.7 and 16.12.6 releases:

- NCS 4201— 0X00040019
- NCS 4202
  - BFD—0X0003001b
  - Netflow—0X00020008

The following is the CEM FPGA version:

- NCS4202—NA

## Limitations and Restrictions on the Cisco NCS 4201 and Cisco NCS 4202 Series

- The **default** *command-name* command is used to default the parameters under that interface. However, when speed is configured on the interface, the following error is displayed:  

```
Speed is configured. Remove speed configuration before enabling auto-negotiation
```
- VCoP/TSoP smart SFPs are not supported.
- Virtual services should be deactivated and uninstalled before performing replace operations.
- IPsec is not supported on the Cisco NCS 4201 and Cisco NCS 4202 routers.
- On Cisco NCS 4202 Series, the following restrictions apply for IPsec:
  - Interface naming is from right to left. For more information, see the [Cisco NCS 4200 Series Software Configuration Guide](#)
  - Packet size greater than 1460 is not supported over IPsec Tunnel.
  - Minimal traffic drop might be seen for a moment when higher rate traffic is sent through the IPsec tunnels for the first time.
  - IPsec is only supported for TCP and UDP and is not supported for SCTP.

## Field Notices and Bulletins

- Field Notices—We recommend that you view the field notices for this release to determine whether your software or hardware platforms are affected. You can find field notices at [http://www.cisco.com/en/US/support/tsd\\_products\\_field\\_notice\\_summary.html](http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html).

- Bulletins—You can find bulletins at [http://www.cisco.com/en/US/products/sw/iosswrel/ps5012/prod\\_literature.html](http://www.cisco.com/en/US/products/sw/iosswrel/ps5012/prod_literature.html).

## MIB Support

To view supported MIB, go to <http://tools.cisco.com/ITDIT/MIBS/MainServlet>.

## Accessibility Features in the Cisco NCS 4201 and Cisco NCS 4202 Series

For a list of accessibility features in Cisco NCS 4201 and Cisco NCS 4202 Series, see the [Voluntary Product Accessibility Template \(VPAT\)](#) on the Cisco website, or contact [accessibility@cisco.com](mailto:accessibility@cisco.com).

All product documents are accessible except for images, graphics, and some charts. If you would like to receive the product documentation in audio format, braille, or large print, contact [accessibility@cisco.com](mailto:accessibility@cisco.com).

