



Release Notes for Cisco NCS 1002, IOS XR Release 7.3.2

First Published: 2021-10-14

Last Modified: 2022-11-09

What's New in Cisco NCS 1002, IOS XR Release 7.3.2

Cisco is continuously enhancing the product with every release and this section covers a brief description of key features and enhancements. It also includes links to detailed documentation, where available.

Feature	Description
Configuration	
OC support for AAA User	This feature allows all authorized users on XR VM to access administration data on the router through NETCONF or gRPC interface, similar to accessing the CLI. This functionality works by internally mapping the task group of the user on XR VM to a predefined group on System Admin VM. Therefore, the NETCONF and gRPC users can access the admin-related information on the router even if their user profiles do not exist on System Admin VM. Command added: • aaa authorization (System Admin-VM)

Release 7.3.2 Packages

Table 1: Release 7.3.2 Packages

Feature Set	Filename	Description
Composite Package		
Cisco IOS XR Core Bundle + Manageability Package	ncs1k-iosxr-px-k9-7.3.2.tar	Contains required core packages, including operating system, Admin, Base, Forwarding, SNMP Agent, FPD, and Alarm Correlation and Netconf-yang, Telemetry, Extensible Markup Language (XML) Parser, HTTP server packages.
Individually Installable Optional Packages		

Cisco IOS XR Security Package	ncs1k-k9sec-3.2.0.0-r732.x86_64.rpm	Support for Encryption, Decryption, IP Security (IPsec), Secure Socket Layer (SSL), and Public-key infrastructure (PKI).
-------------------------------	-------------------------------------	--

See [Install Packages](#).

System Requirements

Memory Configuration

At least 16 GB RAM

Caveats

Open Caveats

The following table lists the open caveats:

Caveat ID Number	Description
CSCvy13197	Telemetry Syslog events are not received by telemetry client

Bug Search Tool

[Cisco Bug Search Tool](#) (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

Determine Software Version

Log in to NCS 1002 and enter the **show version** command:

```
RP/0/RP0/CPU0:ios# show version
Wed Feb 10 19:35:38.274 IST
Cisco IOS XR Software, Version 7.3.2
Copyright (c) 2013-2021 by Cisco Systems, Inc.

Build Information:
  Built By       : ingunawa
  Built On       : Tue Feb  9 11:45:12 PST 2021
  Built Host     : iox-lnx-068
  Workspace      : /auto/iox-lnx-068-san1/prod/7.3.2/ncs1k/ws
  Version        : 7.3.2
  Location       : /opt/cisco/XR/packages/
  Label          : 7.3.2

cisco NCS-1002 () processor
System uptime is 3 hours 37 minutes
```

Determine Firmware Support

Log in to NCS 1002 and enter the **show hw-module fpd** command:

```
RP/0/RP0/CPU0:ios#show hw-module fpd
Wed Feb 10 19:35:29.371 IST
```

Auto-upgrade:Disabled

Location	Card type	HWver	FPD device	ATR	Status	FPD Versions	
						Running	Programd
0/0	NCS1002-K9	1.2	CDSP_PORT_05		CURRENT	3.77	3.77
0/0	NCS1002-K9	1.2	CDSP_PORT_06		CURRENT	3.77	3.77
0/0	NCS1002-K9	1.2	CDSP_PORT_12		CURRENT	3.77	3.77
0/0	NCS1002-K9	1.2	CDSP_PORT_13		CURRENT	3.77	3.77
0/0	NCS1002-K9	1.2	CDSP_PORT_19		CURRENT	3.77	3.77
0/0	NCS1002-K9	1.2	CDSP_PORT_20		CURRENT	3.77	3.77
0/0	NCS1002-K9	1.2	CDSP_PORT_26		CURRENT	3.77	3.77
0/0	NCS1002-K9	1.2	CDSP_PORT_27		CURRENT	3.77	3.77
0/0	NCS1002-K9	2.0	CFP2_PORT_05		CURRENT	4.40	4.40
0/0	NCS1002-K9	2.1	CFP2_PORT_06		CURRENT	5.52	5.52
0/0	NCS1002-K9	2.1	CFP2_PORT_12		CURRENT	5.52	5.52
0/0	NCS1002-K9	0.0	CFP2_PORT_13		CURRENT	1.01	1.01
0/0	NCS1002-K9	2.1	CFP2_PORT_19		CURRENT	5.52	5.52
0/0	NCS1002-K9	2.1	CFP2_PORT_20		CURRENT	5.52	5.52
0/0	NCS1002-K9	4.2	CFP2_PORT_26		CURRENT	3.20	3.20
0/0	NCS1002-K9	2.1	CFP2_PORT_27		CURRENT	5.52	5.52
0/0	NCS1002-K9	0.1	CTRL_BKP_LOW	B	CURRENT		2.23
0/0	NCS1002-K9	0.1	CTRL_BKP_UP	B	CURRENT		2.23
0/0	NCS1002-K9	0.1	CTRL_FPGA_LOW		CURRENT	2.23	2.23
0/0	NCS1002-K9	0.1	CTRL_FPGA_UP		CURRENT	2.23	2.23
0/RP0	NCS1K-CNTLR	0.1	BIOS_Backup	BS	CURRENT		15.10
0/RP0	NCS1K-CNTLR	0.1	BIOS_Primary	S	CURRENT	15.10	15.10
0/RP0	NCS1K-CNTLR	0.1	Daisy_Duke_BKP	BS	CURRENT		0.20
0/RP0	NCS1K-CNTLR	0.1	Daisy_Duke_FPGA	S	CURRENT	0.20	0.20
0/PM0	NCS1K-2KW-AC	0.0	PO-PrimCU		CURRENT	4.00	4.00
0/PM1	NCS1K-2KW-AC	0.0	PO-PrimCU		CURRENT	4.00	4.00

```
RP/0/RP0/CPU0:ios#sh version
Wed Feb 10 19:35:38.274 IST
Cisco IOS XR Software, Version 7.3.2
Copyright (c) 2013-2021 by Cisco Systems, Inc.
```

Build Information:

```
Built By      : ingunawa
Built On      : Tue Feb  9 11:45:12 PST 2021
Built Host    : iox-lnx-068
Workspace     : /auto/iox-lnx-068-san1/prod/7.3.2.SIT_IMAGE/ncs1k/ws
Version       : 7.3.2
Location      : /opt/cisco/XR/packages/
Label         : 7.3.2
```

```
cisco NCS-1002 () processor
System uptime is 3 hours 37 minutes
```

Other Important Information and References

Mandatory Upgrade



Note Disable auto FPD upgrade before upgrading the software from Release 6.3.x, Release 6.5.x, Release 7.0.1, and Release 7.1.1 to Release 7.2.1 or later.

Supported MIBs

The following MIBs are supported in NCS 1002:

- CISCO-CONFIG-MAN-MIB
- CISCO-FLASH-MIB
- CISCO-ENTITY-REDUNDANCY-MIB
- CISCO-SYSTEM-MIB
- CISCO-ENTITY-ASSET-MIB
- EVENT-MIB
- DISMAN-EXPRESSION-MIB
- CISCO-FTP-CLIENT-MIB
- NOTIFICATION-LOG-MIB
- CISCO-RF-MIB
- RADIUS-AUTH-CLIENT-MIB
- RADIUS-ACC-CLIENT-MIB
- IEEE8023-LAG-MIB
- CISCO-TCP-MIB
- UDP-MIB
- CISCO-BULK-FILE-MIB
- CISCO-CONTEXT-MAPPING-MIB
- CISCO-OTN-IF-MIB
- CISCO-ENHANCED-MEMPOOL-MIB
- CISCO-PROCESS-MIB
- CISCO-SYSLOG-MIB
- ENTITY-MIB

- CISCO-ENTITY-FRU-CONTROL-MIB
- CISCO-IF-EXTENSION-MIB
- RMON-MIB
- CISCO-OPTICAL-MIB
- CISCO-ENTITY-SENSOR-MIB
- LLDP-MIB
- CISCO-ALARM-MIB

