



Release Notes for Cisco NCS 1002, IOS XR Release 7.2.1

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What's New in Cisco IOS XR Release 7.2.1

Software

Fault Profiles

The Fault Profiling feature enables you to create a unique fault profile for faults on the system. Each fault profile can contain one or more faults with user-defined severities.

See [Fault Profiles](#).

Commands introduced:

- [fault-profile](#)
- [fault-profile apply](#)

Caveats

Open Caveats

The following table lists the open caveats for NCS 1002:

Table 1: Open Caveats

Caveat ID Number	Description
CSCvu85306	PM data must be shown only for one lane in case of FR pluggable.

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.

Supported Packages and System Requirements

Release 7.2.1 Packages

Table 2: Release 7.2.1 Packages

Feature Set	Filename	Description
Composite Package		
Cisco IOS XR Core Bundle + Manageability Package	ncs1k-iosxr-px-k9-7.2.1.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-4.1.0.0-r721.x86_64.rpm (part of ncs1k-iosxr-px-k9-7.2.1.tar)	Support for Encryption, Decryption, IP Security (IPsec), Secure Shell (SSH), Secure Socket Layer (SSL), and Public-key infrastructure (PKI).

See [Install Packages](#).

System Requirements

Memory Configuration

At least 16 GB RAM

Determine Software Version

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

```
RP/0/RP0/CPU0:ios#show version
Thu Aug 13 11:44:54.929 IST Cisco IOS XR Software, Version 7.2.1
Copyright (c) 2013-2020 by Cisco Systems, Inc.
```

Build Information:

```
Built By      : gopalk2
Built On      : Wed Aug 12 06:35:54 PDT 2020
Built Host    : iox-lnx-020
Workspace     : /auto/srcarchive13/prod/7.2.1/ncs1k/ws
Version       : 7.2.1
Location      : /opt/cisco/XR/packages/
Label         : 7.2.1
```

```
cisco NCS-1002 () processor
System uptime is 33 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 Aug 12 13:14:43.467 IST
```

```
FPD Versions
```

```
=====
```

Location	Card type	HWver	FPD device	ATR	Status	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		

The above show output lists the hardware components that are supported in current release with their status. The status of the hardware must be CURRENT; Running and Programd version must be similar.

Other Important Information

Mandatory Upgrade Notes

Please read the following before upgrading the software to Release 7.2.1.

- **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.**

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

