



# Introduction

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This Release Notes contain information about downloading and installing Cisco 1x2 / Compact Shelf RPD Software 5.4 and its maintenance releases. It also provides new and changed information, hardware support, limitations and restrictions, and caveats for Cisco 1x2 / Compact Shelf RPD Software 5.4 and its maintenance releases.

We recommend that you view the field notices for this release to see if your software or hardware platforms are affected. If you have an account at Cisco.com, you can find the field notices at [http://www.cisco.com/en/US/customer/support/tsd\\_products\\_field\\_notice\\_summary.html](http://www.cisco.com/en/US/customer/support/tsd_products_field_notice_summary.html).

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- Note** Cisco 1x2 / Compact Shelf RPD Software 5.4 is generally available for field deployment. To ensure a smoother, faster, and successful field deployment, we recommend that you validate and qualify the software in a limited field trial.
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This chapter includes the following sections:

- [System Requirements, on page 2](#)
- [New and Changed Information, on page 3](#)
- [MIBs, on page 5](#)
- [Obtaining Documentation and Submitting a Service Request, on page 5](#)

## System Requirements

These sections describe the system requirements for Cisco 1x2 / Compact Shelf RPD Software and its maintenance releases:

### Memory Requirements for Cisco 1x2 / Compact Shelf RPD Software 5.4



**Note** Memory is not configurable for the Cisco Remote-PHY device.

*Table 1: Memory Recommendations for the Cisco Remote-PHY Device*

Feature Set	Cisco RPHY Processor	Software Image	Fixed Memory	Runs From
CISCO RPHY 5.4	NXP LS1043A	RPD-V5-4.itb.SSA	1G Bytes	Bootflash:

### Hardware Supported

For detailed information about the hardware supported in Cisco 1x2 / Compact Shelf RPD Software and its maintenance releases, see:

[http://www.cisco.com/c/en/us/td/docs/cable/cbr/installation/guide/b\\_cbr\\_how\\_and\\_what\\_to\\_order.html](http://www.cisco.com/c/en/us/td/docs/cable/cbr/installation/guide/b_cbr_how_and_what_to_order.html).

### Determining the Software Version of Cisco 1x2 / Compact Shelf RPD Software 5.4

To determine the version of the Cisco 1x2 RPD software running on your Cisco Remote-PHY Device, log in and enter the **show version EXEC** command:

```
R-PHY#show version
Cisco RPD Software, version v5.4, build by rpd-release, on 2018-11-08 15:43:41
Branch information:
  RPD branch: (detached from RPD_V5_4_20181108)
  OpenRPD branch: (detached from RPD_V5_4_20181108)
  SeresRPD branch: (detached from RPD_V5_4_20181108)
```



**Note** The system image file name of the factory installed image is */bootflash/RPD-V5.4\_hardware\_certificate.itb.rel.sign.SSA*. The system image file name of the Secure Software Download (SSD) from the Cisco software download page is */bootflash/RPD-V5-4.itb.SSA.act*.

# New and Changed Information

The following sections list the new hardware and software features supported on the Cisco cBR Series Converged Broadband Routers in this release:

## New Software Features in Cisco 1x2 / Compact Shelf RPD Software 5.4

### RPD show version - reboot reason

Using RPD CLI **show version**, you can see the RPD last reboot reason in the line `Last reload reason:`  
`<reboot reason>`.

```
R-PHY#show version
Cisco RPD Software, version v5.4_20181010171130, build by rpd-release, on 2018-10-10 17:11:30
Branch information:
  RPD branch: (detached from NIGHTLY_20181011_010001)
  OpenRPD branch: (detached from NIGHTLY_20181011_010001)
  SeresRPD branch: (detached from NIGHTLY_20181011_010001)
```

```
System image file is:
current image is /bootflash/RPD_seres_rpd_20181011_010001.itb.sign
primary image is /bootflash/RPD_seres_rpd_20181011_010001.itb.sign
secondary image is /bootflash/NDR-MC-Rules.itb.sign
```

```
Current running image information:
Current running image is not signed by release key
```

```
Last reload reason: TOD Failure
```

```
Bootloader version:
Primary: U-Boot 2016.01 (Jul 31 2017 - 09:54:51 +0800) *
Golden: Unknown
```

```
IOFPGA version:
IOFPGA: 0x0354
SECVVER: 0x17051701
```

```
System uptime:
00:01:09 up 6 min, load average: 0.18, 0.50, 0.29
```

```
System CPU information:
processor      : 0
Features      : fp asimd evtstrm aes pmull sha1 sha2 crc32
CPU implementer : 0x41
CPU architecture: 8
CPU variant   : 0x0
CPU part      : 0xd03
CPU revision  : 4
```

```
processor      : 1
Features      : fp asimd evtstrm aes pmull sha1 sha2 crc32
CPU implementer : 0x41
CPU architecture: 8
CPU variant   : 0x0
CPU part      : 0xd03
CPU revision  : 4
```

```
processor      : 2
Features      : fp asimd evtstrm aes pmull sha1 sha2 crc32
```

```

CPU implementer : 0x41
CPU architecture: 8
CPU variant     : 0x0
CPU part        : 0xd03
CPU revision    : 4

processor       : 3
Features        : fp asimd evtstrm aes pmull sha1 sha2 crc32
CPU implementer : 0x41
CPU architecture: 8
CPU variant     : 0x0
CPU part        : 0xd03
CPU revision    : 4

System memory information:
MemTotal:      898032 kB
MemFree:       157092 kB
MemAvailable: 232656 kB
Buffers:       2628 kB
Cached:        79928 kB

Hardware Information:
Hardware Version      : 1.2
Product Number(PID)  : RPHYSHLF_6X12_AC
PCA Serial Number    : CAT2112E020
Asset ID              : Asset-2
System MAC Address   : 10:04:9f:c2:02:00

```

## Read count TLV 73

Supports the read count TLV 73 DsOfdmChannelPerf. The objects in this group report the disposition of all successfully received L2TPv3 data pseudowire traffic for transmission on a downstream OFDM channel.

## Fault manager performance improvement

RPD event generation performance was improved in this release.

## Modified Software Features in Cisco 1x2 / Compact Shelf RPD Software 5.4

### Cisco Compact Shelf temperature warning redefinition

RPD PSU temperature warning threshold was modified and Cisco defined event report was added when PSU temperature reaches CRITICAL-HIGH threshold.

Event type	Old threshold	New threshold
MINOR-HIGH	55 Celsius	50 Celsius
MAJOR-HIGH	65 Celsius	55 Celsius
CRITICAL-HIGH	75 Celsius	61 Celsius

## Integrated Software Features in Cisco 1x2 / Compact Shelf RPD Software 5.4

There are no new integrated software features for Cisco 1x2 / Compact Shelf RPD Software 5.4 release.

## New Hardware Features in Cisco 1x2 / Compact Shelf RPD Software 5.4

There are no new hardware feature for Cisco 1x2 / Compact Shelf RPD Software 5.4 release.

## MIBs

To locate and download MIBs for selected platforms, Cisco IOS XE releases, and feature sets, use Cisco MIB Locator found at the following URL:

<http://tools.cisco.com/ITDIT/MIBS/servlet/index>

To access Cisco MIB Locator, you must have an account on Cisco.com. If you have forgotten or lost your account information, send a blank e-mail to [cco-locksmith@cisco.com](mailto:cco-locksmith@cisco.com). An automatic check verifies that your e-mail address is registered with Cisco.com. If the check is successful, account details with a new random password is e-mailed to you. Qualified users can establish an account on Cisco.com by following the directions found at this URL:

<http://tools.cisco.com/RPF/register/register.do>

## MIBs in Cisco 1x2 / Compact Shelf RPD Software 5.4

There are no new MIBs in Cisco 1x2 / Compact Shelf RPD Software 5.4 release.

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

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