



# Introduction

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This Release Notes contain information about downloading and installing Cisco 1x2 / Compact Shelf RPD Software 5.1 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 5.1 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 5.1 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 3](#)
- [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 5.1



**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 5.1	NXP LS1043A	RPD-V5-1.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 for Cisco 1x2 / Compact Shelf RPD Software 5.1

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 v5.1, build by rpd-release, on 2018-07-31 11:58:11
Branch information:
  RPD branch: (detached from RPD_V5_1_20180731)
  OpenRPD branch: (detached from RPD_V5_1_20180731)
  SeresRPD branch: (detached from RPD_V5_1_20180731)
```



**Note** System image file name for a factory installed image is `/bootflash/RPD-V5.1_hardware_certificate.itb.rel.sign.SSA`. System image file name for a Secure Software Download (SSD) from the Cisco software download page is `/bootflash/RPD-V5-1.itb.SSA.act`.

## New Hardware Features in Cisco 1x2 / Compact Shelf RPD Software 5.1

There are no new hardware feature for Cisco 1x2 / Compact Shelf RPD Software 5.1 release.

## 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 5.1

### Remote PHY DOCSIS 3.1 OFDMA Channel Configuration

Cisco IOS XE Fuji 16.9.1a supports 32 OFDMA upstream channels for each RPHY linecard. A single OFDMA channel per controller with a maximum width of 96 MHz is supported within the upstream spectrum between 5 to 204 MHz. Both 25 and 50 KHz subcarrier spacing is supported.

## Modified Software Features in Cisco 1x2 / Compact Shelf RPD Software 5.1

### Per US Port Description Support

cBR supports Upstream Controller Profile in R-PHY. You can distinguish between the controllers by the new rule to display the description - Per RPD us port description.

The following commands are updated:

- `rpd-us upstream-cable`
- `show cable modem rpd`
- `show cable modem rpd all summary`

## Integrated Software Features in Cisco 1x2 / Compact Shelf RPD Software 5.1

There are no new integrated software features for Cisco 1x2 / Compact Shelf RPD Software 5.1 release.

## New Hardware Features in Cisco 1x2 / Compact Shelf RPD Software 5.1

There are no new hardware feature for Cisco 1x2 / Compact Shelf RPD Software 5.1 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:

<https://mibs.cloudapps.cisco.com/ITDIT/MIBS/servlet/index>

## MIBs in Cisco 1x2 / Compact Shelf RPD Software 5.1

The following MIB tables are supported in the Cisco 1x2 / Compact Shelf RPD Software 5.1 release.

- docsRphyRpdIpNetToPhysicalTable
- docsRphyPtpCcapDefaultDataSet
- docsRphyPtpCcapCurrentDataSet
- docsRphyPtpCcapParentDataSet
- docsRphyPtpCcapTimeProperties
- docsRphyPtpCcapPortDataSetTable
- docsRphyPtpCcapClockStatus
- docsRphyPtpCcapCorePtpPortStatusTable
- docsRphyPtpCcapPortMasterClockStatusTable
- docsRphyCcapCinDsLatencyTable
- docsRphyCcapSessionCinDsLatencyStatsTable
- docsRphyRpdIfEnetTable
- docsRphyRpdIfEnetStatsTable
- docsRphyRpdIpv6InterfaceTable
- docsRphyRpdIpAddressTable
- docsRphyRpdDevL2tpSessionInfoTable
- docsRphyRpdDevL2tpSessionStatsTable
- docsRphyRpdIfCoreToRpdMapTable
- docsRphyRpdIfRpdToCoreMapTable
- docsRphyRpdDevDsUsRfPortAllocTable
- docsRphyRpdChanReachabilityTable
- docsRphyRpdDevCapabilitiesTable
- docsRphyRpdDevIdentificationTable
- docsRphyCtrlRpdInitProvCtrlTable
- docsRphyCtrlRpdLogCtrlTable
- docsRphyRpdDevCoresConnectedTable
- docsRphyRpdDevDepiMcastSessionTable
- docsRphyCtrlRpdResetCtrlTable
- docsRphyCtrlRpdSsdCtrlTable
- docsRphyRpdDevInfoTable

- docsRphyRpdDevLocationTable
- docsRphyRpdDevCrashDataFileStatusTable
- docsRphyCtrlRpdCrashDataFileCtrlTable
- docsRphyCtrlRpdCrashDataServerCtrlTable
- docsRphyPtpRpdCurrentDataSetTable
- docsRphyPtpRpdClockStatusTable
- docsRphyPtpRpdPortDataSetTable
- docsRphyPtpRpdPtpPortStatusTable
- docsRphyPtpRpdPortMasterClockStatusTable

## 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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