



Release Notes for Cisco Remote PHY for Cisco 1x2 / Compact Shelf RPD Software 5.1

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Introduction



Note

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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.

If you do not have an account at Cisco.com, you can find the field notices at http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html.



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.

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.

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
- $\hbox{-} docs Rphy Ccap Session Cin Ds Latency Stats Table \\$
- docsRphyRpdIfEnetTable
- docsRphyRpdIfEnetStatsTable
- docsRphyRpdIpv6InterfaceTable
- docsRphyRpdIpAddressTable
- docsRphyRpdDevL2tpSessionInfoTable
- docsRphyRpdDevL2tpSessionStatsTable
- docsRphyRpdIfCoreToRpdMapTable
- docsRphyRpdIfRpdToCoreMapTable
- docsRphyRpdDevDsUsRfPortAllocTable
- docsRphyRpdChanReachabilityTable
- docsRphyRpdDevCapabilitiesTable
- docsRphyRpdDevIdentificationTable
- docsRphyCtrlRpdInitProvCtrlTable
- docsRphyCtrlRpdLogCtrlTable
- docsRphyRpdDevCoresConnectedTable
- $\hbox{-} docs Rphy Rpd Dev Depi Mcast Session Table$
- docsRphyCtrlRpdResetCtrlTable
- docsRphyCtrlRpdSsdCtrlTable
- · docsRphyRpdDevInfoTable

- docsRphyRpdDevLocationTable
- docsRphyRpdDevCrashDataFileStatusTable
- docsRphyCtrlRpdCrashDataFileCtrlTable
- $\bullet \ docs Rphy Ctrl Rpd Crash Data Server Ctrl Table \\$
- docsRphyPtpRpdCurrentDataSetTable
- docsRphyPtpRpdClockStatusTable
- docsRphyPtpRpdPortDataSetTable
- docsRphyPtpRpdPtpPortStatusTable
- $\bullet\ docs Rphy Ptp Rpd Port Master Clock Status Table$

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.

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the What's New in Cisco Product Documentation RSS feed. The RSS feeds are a free service.

Obtaining Documentation and Submitting a Service Request



Caveat List

This chapter describes open severity 1 and 2 caveats and select severity 3 caveats.

The *Open Caveats* section lists open caveats that apply to the current release and may apply to previous releases. A caveat that is open for a prior release and is still unresolved applies to all future releases until it is resolved.

The bug IDs are sorted alphanumerically.



Note

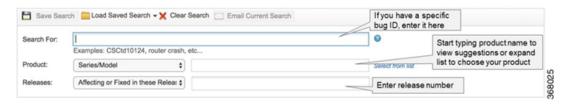
The *Caveats* section includes the bug ID and a short description of the bug. For details on the symptoms, conditions, and workaround for a specific caveat you must use the Bug Search Tool.

- Cisco Bug Search, on page 7
- Open Caveats for Cisco 1x2 / Compact Shelf RPD Software 5.1, on page 8
- Resolved Caveats for Cisco 1x2 / Compact Shelf RPD Software 5.1, on page 8

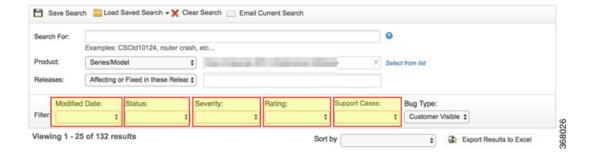
Cisco Bug Search

Use the Cisco Bug Search Tool to access open and resolved bugs for a release.

The tool allows you to search for a specific bug ID, or for all bugs specific to a product and a release.



You can filter the search results by last modified date, bug status (open, resolved), severity, rating, and support cases.



Open Caveats for Cisco 1x2 / Compact Shelf RPD Software 5.1

Caveat ID Number	Description
CSCvh83290	RPHY: interop: PtpRpdEnetPortIndex(TLV 86.4) has always been set to 1.
CSCvk32107	Sensor "PS1_N6V_MON" (id 44) not available on RPD node with GS7000 (rpd side).
CSCvk38899	PTP state shown as PHASE_LOCK wrongly for a unreachable PTP primary.

Resolved Caveats for Cisco 1x2 / Compact Shelf RPD Software 5.1

Caveat ID Number	Description
CSCvh69421	PTP status will become hold-over soon after RPD online with dual PTP primary