



Introduction



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This Release Notes contain information about downloading and installing Cisco 1x2 / Compact Shelf RPD Software 4.2.1 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 4.2.1 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 4.2.1 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 4](#)
- [Upgrade RPD in GCPP Setup, on page 4](#)
- [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 4.2.1



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 4.2.1	NXP LS1043A	RPD-V4-2-1.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 4.2.1

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 ver
Cisco RPD Software, version v4.2.1, build by rpd-release, on 2018-07-11 10:10:08
Branch information:
  RPD branch: (detached from RPD_V4_2_20180711)
  OpenRPD branch: (detached from RPD_V4_2_20180711)
  SeresRPD branch: (detached from RPD_V4_2_20180711)
```



Note System image file name for a factory installed image is `/bootflash/RPD-V4.2.1_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-V4-2-1.itb.SSA.act`.

New and Changed Information

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

New Software Features in Cisco 1x2 / Compact Shelf RPD Software 4.2.1

GCP Reconnect

- B.6.1.6 Time Out Notification TLVs
- 6.9.7 RPD-Initiated GCP Reconnect to the Active CCAP Core
- 12.2.2 CCAP Core Identification Table – add support for “reconnecting” core mode
- B.5.4.2 GCP Connection Verification and Recovery
- B.5.4.5.7 CoreMode

For more information, see the [Cisco Remote PHY Device Provisioning Guide for Cisco 1x2 / Compact Shelf RPD Software 4.1](#) guide.

GCP Keepalive

- 6.14 GCP Connectivity Verification and Recovery

For more information, see the [Cisco Remote PHY Device Configuration Guide for Cisco 1x2 / Compact Shelf RPD Software 4.1](#) guide.

Multiple Core

- B.6.1.5 Aux Core Result Notification TLVs
- B.6.1.5.2 AuxCoreResult
- B.5.12.6.4 AuxCoreFailureType

For more information, see the [Cisco Remote PHY Device System Overview for Cisco 1x2 / Compact Shelf RPD Software 4.1](#) guide.

RPD Capabilities

- B.4.3 RPD Capabilities TLVs

For more information, see the [Cisco Remote PHY Device Configuration Guide for Cisco 1x2 / Compact Shelf RPD Software 4.1](#) guide.

Change GCP TLV parser to meet specification to handle Sequence TLV (9) subtlvs in any order. B.2.8.1

For more information, see the [Cisco Remote PHY Device Configuration Guide for Cisco 1x2 / Compact Shelf RPD Software 4.1](#) guide.

New Hardware Features in Cisco 1x2 / Compact Shelf RPD Software 4.2.1

There are no new hardware feature for Cisco 1x2 / Compact Shelf RPD Software 4.2.1 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 4.2.1

There are no new MIBs in RPD Software 4.2.1.

Upgrade RPD in GCPP Setup

1. Make sure all RPDs are online before upgrade.
2. Copy RPD V4.2.1 image file **RPD-V4-2_1.itb.SSA** to TFTP server that RPDs can reach to.
3. Change SSD configuration part in **[RPD_CFG_File]** on GCPP server.

```
"Ssd": [  
  {  
    "SsdServerAddress": "[tftp_server_ip]",  
    "SsdTransport": 1,  
    "SsdFilename": "[rpd_v4.2.1_file_path]",  
    "SsdControl": 2  
  }  
]
```

Explanation of the parameters:

- SsdServerAddress: The IP address of SSD server in Hex mode.
- SsdTransport: 1-tftp, 2-http.
- SsdControl: 2-SsdStart.

4. Reboot RPDs.
5. Wait for RPD bootup, RPD will automatically upgrade to RPD-V4-2-1.itb.SSA. Check if the RPD will drop offline and then re-online.
6. Check if RPD has upgraded to V4.2.1.

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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