Introduction

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This Release Notes contain information about downloading and installing Cisco 1x2 / Compact Shelf RPD Software 6.5 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 6.5 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 6.5 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

These sections describe the system requirements for Cisco 1x2 / Compact Shelf RPD Software 6.5 and its maintenance releases:

Memory Requirements for Cisco 1x2 / Compact Shelf RPD Software 6.5

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 6.5	NXP LS1043A	RPD-V6-5.itb.SSA	1G Bytes	Bootflash:

Hardware Supported

For detailed information about the hardware supported in Cisco 1x2 / Compact Shelf RPD Software 6.5 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 of Cisco 1x2 / Compact Shelf RPD Software 6.5

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 v6.5, build by rpd-release, on 2019-04-29 03:28:18
Branch information:
        RPD branch: (detached from RPD_V6_5_20190429)
        OpenRPD branch: (detached from RPD_V6_5_20190429)
        SeresRPD branch: (detached from RPD_V6_5_20190429)
```

Note

The system image file name of the factory installed image is */bootflash/RPD-V6.5_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-V6-5.itb.SSA.act*.

New and Changed Information

The following sections list the new hardware and software features supported on the Cisco Remote PHY Device in this release:

New Software Features in Cisco 1x2 / Compact Shelf RPD Software 6.5

The new software features for Cisco 1x2 / Compact Shelf RPD Software 6.5 release are:

View Downstream Channel Traffic Rate for Each Downstream Channel

You can view the downstream channel traffic rate for each downstream channel using the **show downstream channel counter** command. The downstream channel traffic rate is calculated every 60 seconds for SC-QAM and every 15 seconds for OFDM.

The downstream channel traffic rate is displayed in the Rate-in-Mbps column.

```
R-PHY#show downstream channel counter
------------------ Packets counter in TPMI ------------------

Level     Rx-pkts    Rx-sum-pkts
Node Rcv  446941     1117839
Depi Pkt  1500       11382

Port Chan SessionId(dec/hex)    Rx-pkts    Rx-sum-pkts
DS_0 0    4390912   /0x00430000 74080      149658
DS_0 1    4390913   /0x00430001 73594      151718
DS_0 2    4390914   /0x00430002 43         79
DS_0 3    4390915   /0x00430003 42         82
DS_0 4    4390916   /0x00430004 43         83
DS_0 5    4390917   /0x00430005 41         75
DS_0 6    4390918   /0x00430006 41         81
DS_0 7    4390919   /0x00430007 42         78

Port      Rx-pkts    Rx-sum-pkts Drop-pkts  Drop-sum-pkts
DS_0      297042     763590      0          0
US_0      74316      152292      0          0
US_1      73842      152967      0          0


------------------ Packets counter in DPMI ------------------

Field        Pkts      Sum-pkts
Dpmi Ingress 297761    603482
Pkt Delete   0         0
Data Len Err 0         0

Chan Flow_id SessionId(dec/hex)    Octs      Sum-octs   SeqErr-pkts SeqErr-sum-pkts
0    0       4390912   / 0x00430000 2464      2464       1           1
0    1       4390912   / 0x00430000 15087     29660      0           1
0    2       4390912   / 0x00430000 4799706   9694742    0           1
0    3       4390912   / 0x00430000 0         0          0           0
1    0       4390913   / 0x00430001 1232      2464       0           1
1    1       4390913   / 0x00430001 15038     30479      0           1
1    2       4390913   / 0x00430001 4766316   9825238    0           0
1    3       4390913   / 0x00430001 0         0          0           0
2    0       4390914   / 0x00430002 552       552        1           1
2    1       4390914   / 0x00430002 1292      2516       0           1
2    2       4390914   / 0x00430002 0         0          0           0
```

```
2    3        4390914   / 0x00430002  0          0          0          0
3    0        4390915   / 0x00430003  444        444        1          1
3    1        4390915   / 0x00430003  1292       2652       0          1
3    2        4390915   / 0x00430003  0          0          0          0
3    3        4390915   / 0x00430003  0          0          0          0


------------------ Packets counter in DPS ------------------

Chan Tx-packets Tx-octets  Drop-pkts   Tx-sum-pkts Tx-sum-octs Drop-sum-pkts Rate-in-Mbps
0    75249      4888241    0           150734      9790374     0             0.653
1    74756      4853154    0           152791      9921209     0             0.675
2    43         1844       0           79          3068        0             0.000
3    42         1736       0           82          3096        0             0.000
```

Modified Software Features in Cisco 1x2 / Compact Shelf RPD Software 6.5

There are no modified software features for Cisco 1x2 / Compact Shelf RPD Software 6.5 release.

Integrated Software Features in Cisco 1x2 / Compact Shelf RPD Software 6.5

There are no new integrated software features for Cisco 1x2 / Compact Shelf RPD Software 6.5 release.

New Hardware Features in Cisco 1x2 / Compact Shelf RPD Software 6.5

There are no new hardware features for Cisco 1x2 / Compact Shelf RPD Software 6.5 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. 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 6.5

There are no new MIBs in Cisco 1x2 / Compact Shelf RPD Software 6.5.

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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