



Downgrade from Cisco 1x2 / Compact Shelf RPD Software 10.x

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Downgrade Cisco RPD and Cisco cBR-8 Router

Before you begin

Before downgrading the system, make sure the following requirements are met:

- Download the images from the Cisco.com Software Center.
 - Cisco cBR-8 router image: <https://software.cisco.com/download/home/286283913/type/282046477>
 - Cisco Remote PHY Device image: <https://software.cisco.com/download/home/286316518/type/286316917>
- Console access for both SUPs are required.

Step 1 Copy Cisco IOS XE software package to bootflash: and stby-bootflash:

```
copy <location>/<Cisco IOS XE software filename> bootflash:
copy <location>/<Cisco IOS XE software filename> stby-bootflash:
```

Step 2 Verify Cisco IOS XE software package against the md5 hash as provided in the Cisco.com Software center.

```
verify /md5 bootflash:<Cisco IOS XE software filename>
verify /md5 stby-bootflash:<Cisco IOS XE software filename>
```

Step 3 Backup the current running config to bootflash:

```
copy running-config bootflash:pre-upgrade.cfg
```

Step 4 Check the system status prior to upgrade.

We recommend that you save the information to compare against the system status after the upgrade. For commands that are used to check the status, see the **show** commands at the end of this section.

Step 5 Copy the Cisco RPD image package to a TFTP server that is accessible by the RPDs.

Step 6 Verify the current RPD software version.

```
show cable rpd sw-version
```

Step 7 Downgrade all RPD images to the required version using one of the following methods:

- Use SSD from the Cisco cBR-8 router:

```
cable rpd all ssd <tftp_server_ip> tftp <rpdc_version_file_path>
```

Note The **all** command is not recommended in large-scale RPD deployments. If you have a larger number of RPDs, it is recommended to upgrade the RPD per line card or per Organizationally Unique Identifier (OUI).

- Use SSD profile.

a. Configure SSD profile ID.

```
configure terminal
cable profile ssd <rpdc_profile_id>
ssd <ssd_server_ip> tftp <rpdc_file_path>
end
```

b. Bind SSD ID to the RPD which needs upgrade/downgrade.

```
configure terminal
cable rpd <rpdc_name>
ssd <1-64>
end
```

c. Delete/reset RPD. RPD will download the SSD profile specified image when it is back online.

Step 8 Verify that all RPDs have downloaded the new image using one of the following methods:

- Use **cable rpd all ssd status** command. The status shows as **CodeFileVerified**.

```
Router#cable rpd all ssd status
RPD-ID          ServerAddress      Protocol  Status
Filename
1004.9fb1.1300  10.79.41.66        TFTP      CodeFileVerified
<rpdc_image_name>
```

- Use **show cable rpd event** command.

a. Check the RPD event profile number for the target RPD and configure rpd-event profile priority notice level to 0x3.

```
configure terminal
cable profile rpd-event <RPD_event_profile_number>
enable-notify
priority notice 0x3
end
```

- b.** Use **show cable rpd event** to check whether the RPD image download is successful.

```
Router#show cable rpd event | i 660704
1004.9fb1.1300 66070401 Notic 1 Jul29 04:12:49 SW download INIT - via GCP; Filename:
<rp_image_name>; Server IP: 10.79.41.66; Image Index: 0; RPD-ID: 10:04:9f:b1:13:00;
1004.9fb1.1300 66070411 Notic 1 Jul29 04:14:16 SW download successful - via GCP;
Filename: <rp_image_name>; Server IP: 10.79.41.66; RPD-ID: 10:04:9f:b1:13:00;
```

- Step 9** Configure the chassis to boot the system with target Cisco IOS XE image. Save the running configuration.

```
Configure terminal
no boot system
boot system bootflash:<ios_xe_software_file>
config-register 0x2102
end
copy running-config startup-config
```

- Step 10** Reload and start the cBR-8 router.

```
Reload
```

- Step 11** Check that all the RPDs have been downgraded to the target version and that they are online.

```
show cable rpd
show cable rpd sw-version
```

These **show** commands might be used during the verification test:

- **show version**
- **show platform**
- **show platform diag**
- **show environment**
- **show environment power**
- **show platform hardware slot P <0-5> mcu status**
- **show facility-alarm status**
- **show redundancy**
- **show redundancy line card all**
- **show ip ospf neighbor**
- **show cable modem voice**
- **show cable calls**

- **show cable licenses all**
- **show inventory**
- **show log**
- **show cable rpd**
- **show cable modem summary total**
- **show cable rpd lcha**
- **show running**
- **show tech**

Downgrade Cisco RPD

Before you begin

Make sure the following requirements are met:

- Download new image file from the following Cisco.com Software Center URL:
<https://software.cisco.com/download/home/286316518/type>

Step 1 Copy the Cisco RPD image package to a TFTP server that is accessible by the RPDs.

Step 2 Verify the current RPD software version.

```
show cable rpd sw-version
```

Step 3 Downgrade all RPD images to the required version using one of the following methods:

- Use SSD from the Cisco cBR-8 router:

```
cable rpd all ssd <tftp_server_ip> tftp <rpd_version_file_path>
```

Note The **all** command is not recommended in large-scale RPD deployments. If you have a larger number of RPDs, it is recommended to upgrade the RPD per line card or per Organizationally Unique Identifier (OUI).

- Use SSD profile.

a. Configure SSD profile ID.

```
configure terminal
cable profile ssd <rpd ssd profile id>
ssd <ssd server ip> tftp <rpd_file_path>
end
```

b. Bind SSD ID to the RPD which needs upgrade/downgrade.

```
configure terminal
cable rpd <rpd_name>
ssd <1-64>
end
```

- c. Delete/reset RPD. RPD will download the SSD profile specified image when it is back online.

Step 4 Verify that all RPDs have downloaded the new image using one of the following methods:

- Use **cable rpd all ssd status** command. The status shows as **CodeFileVerified**.

```
Router#cable rpd all ssd status
RPD-ID          ServerAddress      Protocol  Status          Filename
1004.9fb1.1300  10.79.41.66          TFTP      CodeFileVerified
<rp_image_name>
```

- Use **show cable rpd event** command.
 - a. Check the RPD event profile number for the target RPD and configure rpd-event profile priority notice level to 0x3.

```
configure terminal
cable profile rpd-event <RPD_event_profile_number>
enable-notify
priority notice 0x3
end
```

- b. Use **show cable rpd event** to check whether the RPD image download is successful.

```
Router#show cable rpd event | i 660704
1004.9fb1.1300 66070401 Notic 1 Jul29 04:12:49 SW download INIT - via GCP; Filename:
<rp_image_name>; Server IP: 10.79.41.66; Image Index: 0; RPD-ID: 10:04:9f:b1:13:00;
1004.9fb1.1300 66070411 Notic 1 Jul29 04:14:16 SW download successful - via GCP; Filename:
<rp_image_name>; Server IP: 10.79.41.66; RPD-ID: 10:04:9f:b1:13:00;
```

Step 5 Check that all the RPDs have been downgraded to the target version and that they are online.

```
show cable rpd
show cable rpd sw-version
```

These **show** commands might be used during the verification test:

- **show version**
- **show platform**
- **show platform diag**
- **show environment**
- **show environment power**
- **show platform hardware slot P <0-5> mcu status**
- **show facility-alarm status**
- **show redundancy**

- **show redundancy line card all**
 - **show ip ospf neighbor**
 - **show cable modem voice**
 - **show cable calls**
 - **show cable licenses all**
 - **show inventory**
 - **show log**
 - **show cable rpd**
 - **show cable modem summary total**
 - **show cable rpd lcha**
 - **show running**
 - **show tech**
-

Downgrade Cisco cBR-8 Router

Before downgrading the system, make sure the following requirements are met:

- Download new image file from the following Cisco.com Software Center URL:
<https://software.cisco.com/download/home/286283913/type>
- Console access for both SUPs are required.



Note For information on how to downgrade the cBR-8 router, see [Upgrading the Cisco cBR Series Converged Broadband Routers for Cisco IOS XE Bengaluru 17.6.x](#).

The following **show** commands might be used during the verification test:

- **show version**
- **show platform**
- **show platform diag**
- **show environment**
- **show environment power**
- **show platform hardware slot P <0-5> mcu status**
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