# Other Important Information


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## Feature Support

Cisco IOS XE software is packaged in feature sets that consist of software images that support specific platforms. The feature sets available for a specific platform depend on which Cisco IOS XE software images are included in a release. Each feature set contains a specific set of Cisco IOS XE features.

**Caution** Cisco IOS XE images with strong encryption (including, but not limited to 168-bit [3DES] data encryption feature sets) are subject to U.S. government export controls and have limited distribution. Strong encryption images to be installed outside the United States are likely to require an export license. Customer orders may be denied or subject to delay because of U.S. government regulations. When applicable, the purchaser or user must obtain local import and use authorizations for all encryption strengths. Please contact your sales representative or distributor for more information, or send an e-mail to export@cisco.com.

## Cisco cBR-8 Software Compatibility

The Cisco cBR-8 software must be compatible with Cisco RPD and SmartPHY software. Otherwise the RPD remains in the **init(gcp)** state. The following table provides details of the compatible software versions:

| Cisco cBR-8 Software Version | Compatible Cisco RPD Software Version | Compatible SmartPHY Software Version |
|---|---|---|
| Cisco IOS XE Dublin 17.12.1z6 | Cisco 1x2 / Compact Shelf RPD Software 10.9.1 | SmartPHY v25.1.1 |

| Cisco cBR-8 Software Version | Compatible Cisco RPD Software Version | Compatible SmartPHY Software Version |
|---|---|---|
| Cisco IOS XE Dublin 17.12.1z5 | Cisco 1x2 / Compact Shelf RPD Software 10.9.1 | SmartPHY v25.1.1 |
| Cisco IOS XE Dublin 17.12.1z4 | Cisco 1x2 / Compact Shelf RPD Software 10.9.1 and 10.8 | SmartPHY v24.2 |
| Cisco IOS XE Dublin 17.12.1z3 | Cisco 1x2 / Compact Shelf RPD Software 10.8 | SmartPHY v24.2 |
| Cisco IOS XE Dublin 17.12.1z2 | Cisco 1x2 / Compact Shelf RPD Software 10.8 | SmartPHY v24.1.1 |
| Cisco IOS XE Dublin 17.12.1z1 | Cisco 1x2 / Compact Shelf RPD Software 10.8 | SmartPHY v24.1.1 |
| Cisco IOS XE Dublin 17.12.1y | Cisco 1x2 / Compact Shelf RPD Software 10.7.1 | SmartPHY v24.1.1 |
| Cisco IOS XE Dublin 17.12.1y | Cisco 1x2 / Compact Shelf RPD Software 10.7 | SmartPHY v24.1.1 |
| Cisco IOS XE Dublin 17.12.1x | Cisco 1x2 / Compact Shelf RPD Software 10.7 | SmartPHY v23.3 |
| Cisco IOS XE Dublin 17.12.1w | Cisco 1x2 / Compact Shelf RPD Software 10.6 | SmartPHY v23.3 |
| Cisco IOS XE Dublin 17.12.1 | Cisco 1x2 / Compact Shelf RPD Software 10.6 | SmartPHY v23.2 |

# 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://cfnng.cisco.com/mibs

# New and Changed MIB Information in Cisco IOS-XE Dublin 17.12.1z6

# New and Changed MIB Information in Cisco IOS-XE Dublin 17.12.1z5

# New and Changed MIB Information in Cisco IOS-XE Dublin 17.12.1z4

# New and Changed MIB Information in Cisco IOS-XE Dublin 17.12.1z3

# New and Changed MIB Information in Cisco IOS-XE Dublin 17.12.1z2

# New and Changed MIB Information in Cisco IOS-XE Dublin 17.12.1z1

# New and Changed MIB Information in Cisco IOS-XE Dublin 17.12.1y

# New and Changed MIB Information in Cisco IOS-XE Dublin 17.12.1x

# New and Changed MIB Information in Cisco IOS-XE Dublin 17.12.1w

In Cisco IOS XE Dublin 17.12.1w, Cisco proprietary MIB table CISCO-CABLE-PNM-MIB is introduced to support multiple SAC capture.

# New and Changed MIB Information in Cisco IOS-XE Dublin 17.12.1

This section provides information regarding new and updated MIBs in the Cisco IOS XE Cupertino 17.12.1 release for Cisco cBR-8 series routers.

- **PNM BDT MIB Updates**: Starting with Cisco IOS XE Dublin 17.12.1, PNM BDT MIB (docsPnmBulkDataTransferCfg) can support both OFDMA RxMER and UTSC. (UTSC has three trigger modes: Freerun, other, and CM-MAC). The **docPnmBulkDestIpaddr** object (UTSC CM-MAC) is also supported.
- **Multiple Bulk Data Transfer Support**: You can now configure multiple BDTs. PNM BDT (DocsPnmBulkDataTransferCfgTable) MIB extends support from one TFTP server address to three.
- **Low Latency DOCSIS Histogram Support**: In this release, DOCS-QOS3-MIB is updated for configuring and polling histogram statistics. The new OIDs supported are docsQos3ServiceClassEntry, docsQos3SfLatencyHistCfgEntry, and docsQos3SfLatencyStatsEntry.

# Supported Transceiver Modules

For more information on the supported transceiver modules, see Transceiver Module Group (TMG) Compatibility Matrix.

# Best Practice Manual of Procedure for Cisco IOS XE Dublin 17.12.1 Upgrade

See the *Upgrading the Cisco cBR Converged Broadband Routers for Cisco IOS XE Dublin 17.12* document at the Install and Upgrade Guides page.

# Mapping CBR-DPIC-8X10G 10-Gigabit Ethernet Interface to downstream controllers

Starting from Cisco IOS XE Bengaluru 17.6.1a, when you configure the RPD with CBR-CCAP-LC-G2-R, note that the CBR-DPIC-8X10G 10-Gigabit Ethernet Interface to downstream controllers mapping has changed.

Following are the new mapping values:

| 10-Gigabit Ethernet Interface | Downstream Controller |
|---|---|
| **<slot>/1/0 ~ 1** | 0..7 |
| **<slot>/1/2 ~ 3** | 8..15 |
| **<slot>/1/4 ~ 5** | 16..23 |
| **<slot>/1/6 ~ 7** | 24..31 |

The mapping changes are also for valid downstream-video controllers.

**Note** The mapping changes does not apply to the CBR-DPIC-2x100G.

The previous mapping values are:

| 10-Gigabit Ethernet Interface | Downstream Controller |
|---|---|
| **<slot>/1/0 ~ 3** | 0..15 |
| **<slot>/1/4 ~ 7** | 16..31 |

Ensure that you have correctly configured the mapping to avoid error logs and error messages. Following is an example of a wrong manual configuration:

```
Router(config)#cab rpd test1
```

```
Router(config-rpd)#core-interface tenGigabitEthernet 8/1/0
Router(config-rpd-core)#rpd-ds 0 downstream-cable 8/0/9 profile 0
For RPD aaaa.bbbb.aaaa, DPIC TE interface Te8/1/0 and DS controller 9 mismatch, TE interface
 Te*/1/0 can only be associated with DS controller */*/0~7, configuration failed.
Router(config-rpd-core)#rpd-ds 0 downstream-video 8/0/9 profile 1
For RPD aaaa.bbbb.aaaa, DPIC TE interface Te8/1/0 and Video controller 9 mismatch, TE
interface Te*/1/0 can only be associated with Video controller */*/0~7, configuration failed.
Router(config-rpd-core)#
```

Following is an example of a bootup error message:

```
*Jun 10 15:53:29.108 CST: %CBR-3-TE_CONTROLLER_MISMATCH: For RPD aaaa.bbbb.aaaa, DPIC TE
interface Te8/1/0 and DS controller 9 mismatch, TE interface Te*/1/0 can only be associated
 with DS controller */*/0~7, configuration failed.

*Jun 10 15:53:29.110 CST: %CBR-3-TE_CONTROLLER_MISMATCH: For RPD aaaa.bbbb.aaaa, DPIC TE
interface Te8/1/0 and Video controller 9 mismatch, TE interface Te*/1/0 can only be associated
 with Video controller */*/0~7, configuration failed.
```

# Cisco cBR-8 Documentation References

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 IOS XE Cupertino 17.12.1 is generally available for field deployment. However, we recommend that you validate and qualify Cisco IOS XE Cupertino 17.12.1 in a limited field trial with your specific network configuration requirements. This process ensures a smoother, faster, and successful field deployment.

For information on Cisco cBR-8, go through the following links:

- Cisco cBR-8 Documentation for Cisco IOS XE
- Cisco cBR-8 DOCSIS Software Configuration Guide