



## Other Important Information

- [Feature Support, on page 1](#)
- [Cisco cBR-8 Software Compatibility, on page 1](#)
- [MIBs, on page 2](#)
- [Supported Transceiver Modules, on page 3](#)
- [Best Practice Manual of Procedure for Cisco IOS XE Bengaluru 17.6.1a Upgrade, on page 3](#)
- [Mapping CBR-DPIC-8X10G 10-Gigabit Ethernet Interface to downstream controllers , on page 3](#)
- [Cisco cBR-8 Documentation References, on page 4](#)

## 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](mailto: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 Bengaluru 17.6.1z1	Cisco 1x2 / Compact Shelf RPD Software 10.4	SmartPHY v22.2

Cisco cBR-8 Software Version	Compatible Cisco RPD Software Version	Compatible SmartPHY Software Version
Cisco IOS XE Bengaluru 17.6.1z	Cisco 1x2 / Compact Shelf RPD Software 10.4	SmartPHY v22.2
Cisco IOS XE Bengaluru 17.6.1x	Cisco 1x2 / Compact Shelf RPD Software 10.3	SmartPHY v22.1
Cisco IOS XE Bengaluru 17.6.1w	Cisco 1x2 / Compact Shelf RPD Software 10.2	SmartPHY v21.3
Cisco IOS XE Bengaluru 17.6.1a	Cisco 1x2 / Compact Shelf RPD Software 10.1	SmartPHY v22.1

## 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>

### New and Changed MIB Information in Cisco IOS-XE Bengaluru 17.6.1z

There are no new or updated MIBs in the Cisco IOS XE Bengaluru 17.6.1z release for Cisco cBR-8 series routers.

### New and Changed MIB Information in Cisco IOS-XE Bengaluru 17.6.1x

DOCS-IF31-MIB was updated to version 2020-11-05 in the Cisco IOS XE Bengaluru 17.6.1x release.

The following new OIDs in DOCS-IF31-MIB are supported:

- docsIf31CmtsUsOfdmaDataIucStatsIucAverageMer
- docsIf31CmtsUsOfdmaDataIucStatsAssignedCmCt
- docsIf31CmtsDsOfdmProfileStatsAssignedCmCt

The following OIDs in DOCS-IF31-MIB are supported for RPHY mode:

- docsIf31CmtsUsOfdmaDataIucStatsTotalCodewords
- docsIf31CmtsUsOfdmaDataIucStatsUnreliableCodewords
- docsIf31CmtsUsOfdmaDataIucStatsCorrectedCodewords

The following new OIDs in DOCS-RPHY-STATS-MIB are supported:

- docsRphyStatsRpdUsOfdmaLowIucPerfStatsNumPredecodePass
- docsRphyStatsRpdUsOfdmaLowIucPerfStatsNumPostdecodePass

- docsRphyStatsRpdUsOfdmaLowIucPerfStatsNumPostdecodeFail
- docsRphyStatsRpdUsOfdmaHighIucPerfStatsAverageMer
- docsRphyStatsRpdUsOfdmaHighIucPerfStatsNumPredecodePass
- docsRphyStatsRpdUsOfdmaHighIucPerfStatsNumPostdecodePass
- docsRphyStatsRpdUsOfdmaHighIucPerfStatsNumPostdecodeFail

## New and Changed MIB Information in Cisco IOS-XE Bengaluru 17.6.1w

There are no new or updated MIBs in the Cisco IOS XE Bengaluru 17.6.1w release for Cisco cBR-8 series routers.

## New and Changed MIB Information in Cisco IOS-XE Bengaluru 17.6.1a

There are no new or updated MIBs in the Cisco IOS XE Bengaluru 17.6.1a release for Cisco cBR-8 series routers.

## 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 Bengaluru 17.6.1a Upgrade

See the *Upgrading the Cisco cBR Converged Broadband Routers for Cisco IOS XE Bengaluru 17.6.1a* 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

10-Gigabit Ethernet Interface	Downstream Controller
<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](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](http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html).



---

**Note** Cisco IOS XE Bengaluru 17.6.1z is generally available for field deployment. However, we recommend that you validate and qualify Cisco IOS XE Bengaluru 17.6.1z 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 Bengaluru 17.6.1](#)
- [Cisco cBR-8 DOCSIS Software Configuration Guide for Cisco IOS XE Bengaluru 17.6.1](#)

