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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 Series Converged Broadband Routers and Cisco Remote PHY Devices Version Compatibility

The versions of Cisco cBR-8 router and RPD must be compatible. If the versions are not compatible, the RPD remains in the **init(gcp)** state. The following list provides information on the compatible cBR-8 and RPD versions:

- Cisco IOS XE Gibraltar 16.12.1z2 works with Cisco 1x2 RPD 7.8.2 and 8.6.1
- Cisco IOS XE Gibraltar 16.12.1z1 works with Cisco 1x2 RPD 7.8.2 and 8.6.1

- Cisco IOS XE Gibraltar 16.12.1z works with Cisco 2x2 RPD 4.2, and Cisco 1x2 RPD 7.6.1, 8.4, 8.5, and 8.6
- Cisco IOS XE Gibraltar 16.12.1y works with Cisco 2x2 RPD 4.2, and Cisco 1x2 RPD 7.6, 7.7, 7.8.x, and 8.2
- Cisco IOS XE Gibraltar 16.12.1x works with Cisco 2x2 RPD 4.2, and Cisco 1x2 RPD 7.4.x, 7.5, and 7.6
- Cisco IOS XE Gibraltar 16.12.1w works with Cisco 1x2 RPD 7.3 and 7.4.x
- Cisco IOS XE Gibraltar 16.12.1 works with Cisco 1x2 RPD 7.1 and 7.2

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://mibs.cloudapps.cisco.com/ITDIT/MIBS/servlet/index>

New and Changed MIB Information in Cisco IOS-XE Gibraltar 16.12.1z

The following MIB table is added in the Cisco IOS XE Gibraltar 16.12.1z release.

- CCAP RPD to CM Map Status Table—DocsRphyCcapRpdToCmMapStatusEntry

The following MIB tables are updated in the Cisco IOS XE Gibraltar 16.12.1z release.

- DocsRphyRpdDevCoresConnectedEntry
- DocsRphyRpdDevCapabilitiesEntry
- DocsRphyRpdDevCapabilitiesEntry
- DocsRphyRpdDevDsUsRfPortAllocEntry
- DocsRphyRpdDevL2tpSessionInfoEntry
- DocsRphyCcapL2tpSessionInfoEntry
- DocsRphyRpdIfEnetSfpPlusStatusEntry
- DocsRphyRpdDevDiagStatusEntry
- DocsRphyRpdDevEventLogEntry
- DocsRphyRpdDevHostResStorEntry

The following MIB table is deprecated in the Cisco IOS XE Gibraltar 16.12.1z release.

- docsRphyRpdDevCoresConnectedAuxCoreGcpConnectionStatus

New and Changed MIB Information in Cisco IOS-XE Gibraltar 16.12.1y

The following MIB tables are added in the Cisco IOS XE Gibraltar 16.12.1y release.

- docsIf31CmtsCmUsOfdmaChannel*PartialSvc* within docsIf31CmtsCmUsOfdmaChannelStatusTable
- docsPnmCmtsUsOfdmaRxMerTable

New and Changed MIB Information in Cisco IOS-XE Gibraltar 16.12.1x

The following MIB tables are added in the Cisco IOS XE Gibraltar 16.12.1x release.

- docsRphyRpdIfEnetSfpPlusStatus
- docsRphyRpdDevCoresConnectedCoreFunction

New and Changed MIB Information in Cisco IOS-XE Gibraltar 16.12.1w

The following MIB tables are added in the Cisco IOS XE Gibraltar 16.12.1w release.



Note The following security MIB tables require RPD 7.3 or later:

- docsRphySecRpdIee8021xPaeSupplicantStatusTable
 - docsRphySecRpdCertTable
 - docsRphySecRpdTrustAnchorCertTable
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- docsRphySecRpdIee8021xPaeSupplicantStatusTable
 - docsRphySecRpdIee8021xPaeSupplicantStatusPortNumber
 - docsRphySecRpdIee8021xPaeSupplicantStatusAuthenticated
 - docsRphySecRpdIee8021xPaeSupplicantStatusFailed
 - docsRphySecRpdIee8021xPaeSupplicantStatusRetryCount
 - docsRphySecRpdCertTable
 - docsRphySecRpdCertDeviceCert
 - docsRphySecRpdCertSigningCaCert
 - docsRphySecRpdTrustAnchorCertTable
 - docsRphySecRpdTrustAnchorCertIndex
 - docsRphySecRpdTrustAnchorCertCaCert
 - CCAP Core Group Objects
 - docsRphySecCcapServerCertSubject

- docsRphySecCcapServerCertIssuer
- docsRphySecCcapServerCertSerialNumber
- docsRphySecCcapServerCertSource
- docsRphySecCcapServerCertCert
- docsRphySecCcapServerCertCertThumbprint

- docsRphyCcapL2tpSessionInfoTable
 - docsRphyCcapL2tpSessionInfoCoreId
 - docsRphyCcapL2tpSessionInfoConnCtrlID
 - docsRphyCcapL2tpSessionInfoUdpPort
 - docsRphyCcapL2tpSessionInfoDescr
 - docsRphyCcapL2tpSessionInfoSessionType
 - docsRphyCcapL2tpSessionInfoSessionSubType
 - docsRphyCcapL2tpSessionInfoMaxPayload
 - docsRphyCcapL2tpSessionInfoPathPayload
 - docsRphyCcapL2tpSessionInfoRpdIfMtu
 - docsRphyCcapL2tpSessionInfoCoreIfMtu
 - docsRphyCcapL2tpSessionInfoIncludeDOCSISMsgs
 - docsRphyCcapL2tpSessionInfoCreationTime
 - docsRphyCcapL2tpSessionInfoLastChange

- docsRphyRpdIpNetToPhysicalTable
 - docsRphyRpdIpNetToPhysicalPhysAddress
 - docsRphyRpdIpNetToPhysicalLastUpdated
 - docsRphyRpdIpNetToPhysicalType
 - docsRphyRpdIpNetToPhysicalState

- docsRphyRpdIfEnetTable
 - docsRphyRpdIfEnetDescr
 - docsRphyRpdIfEnetName
 - docsRphyRpdIfEnetAlias
 - docsRphyRpdIfEnetType
 - docsRphyRpdIfEnetMtu
 - docsRphyRpdIfEnetPhysAddress

- docsRphyRpdIfEnetAdminStatus
- docsRphyRpdIfEnetOperStatus
- docsRphyRpdIfEnetLastChange
- docsRphyRpdIfEnetLinkUpDownTrapEnabl
- docsRphyRpdIfEnetHighSpeed
- docsRphyRpdIfEnetPromiscuousMode
- docsRphyRpdIfEnetConnectorPresent
- docsRphyRpdIfEnetNetworkAuthStatus

- docsRphyRpdIfCoreToRpdMapTable
 - docsRphyRpdIfCoreToRpdMapRpdRfChanType
 - docsRphyRpdIfCoreToRpdMapRpdRfChanIndex

- docsRphyRpdIfRpdToCoreMapTable
 - docsRphyRpdIfRpdToCoreMapCoreIfIndex

- docsRphyCcapL2tpSessionStatsTable
 - docsRphyCcapL2tpSessionStatsOutOfSeqP
 - docsRphyCcapL2tpSessionStatsInPkts
 - docsRphyCcapL2tpSessionStatsInDiscard
 - docsRphyCcapL2tpSessionStatsOutPkts
 - docsRphyCcapL2tpSessionStatsOutErrors

- docsRphyCmtsCmRegStatusTable
 - docsRphyCmtsCmRegStatusRpdUniqueId

New and Changed MIB Information in Cisco IOS-XE Gibraltar 16.12.1

The following MIB tables are added in the Cisco IOS XE Gibraltar 16.12.1x release:

- DOCS-RPHY
- DOCS-RPHY-PTP
- DOCS-RPHY-STATS
- DOCS-RPHY-CTRL
- DOCS-RPHY-SEC

The following MIB tables are added in the Cisco IOS XE Gibraltar 16.12.1 release:

- docsRphyRpdDevExtSwImageSupportTable
 - docsRphyRpdDevExtSwImageSupportSwImageLastUpdate
 - docsRphyRpdDevExtSwImageSupportSwImageName
 - docsRphyRpdDevExtSwImageSupportSwImageDescr
 - docsRphyRpdDevExtSwImageSupportSwImageServerType
 - docsRphyRpdDevExtSwImageSupportSwImageServerAddress
- docsRphyRpdDevCandidateBackupCoresTable
 - docsRphyRpdDevCandidateBackupCoresBackupCoreIpAddrIndex
 - docsRphyRpdDevCandidateBackupCoresBackupCoreAddrType
 - docsRphyRpdDevCandidateBackupCoresBackupCoreAddr

The following MIBs are updated in the Cisco IOS XE Gibraltar 16.12.1 release:

- docsRphyRpdDevInfoPrincipalCoreStatus
- docsRphyRpdIfEnetConnectorPresent
- docsRphyRpdIfEnetNetworkAuthStatus
- docsRphyRpdDevCoresConnectedIndex
- docsRphyRpdDevCoresConnectedAuxCoreRpdState
- docsRphyRpdDevCoresConnectedResourceSetIndex
- docsRphyRpdDevCoresConnectedGcpBackupConnConfig
- docsRphyCtrlRpdCrashDataServerCtrlHttpFilenameKeyword

Best Practice Manual of Procedure for Cisco IOS XE Gibraltar 16.12.x Upgrade

See the Upgrading the Cisco cBR Converged Broadband Routers for Cisco IOS XE Gibraltar 16.12.x document at the [Install and Upgrade Guides](#) page.

Cisco cBR Series Converged Broadband Routers Documentation References

Go to the following link to access the technical documents:

<http://www.cisco.com/c/en/us/support/video/cbr-series-converged-broadband-routers/tsd-products-support-series-home.html>

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](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). The RSS feeds are a free service.

