



Introduction



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This Release Notes contain information about downloading and installing Cisco Cloud Native Broadband Router (Cisco cnBR) version 20.2 and its maintenance releases. The document also provides information on determining the software version, device version compatibility, and open caveats for Cisco cnBR and its maintenance releases.

This chapter includes the following sections:

- [Determining the Software Version for Cisco cnBR 20.2, on page 1](#)
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Determining the Software Version for Cisco cnBR 20.2

You can determine the version of the Cisco cnBR components by viewing the associated charts:

- For Cisco cnBR

On https://cli.ccmts-infra-ops-center.<cnbr_ip>.nip.io/, issue the **show helm charts** command:

```
cmts# show helm charts
CHART          INSTANCE  STATUS  VERSION                                     REVISION
RELEASE                                     NAMESPACE
-----
cloud-infra-app -      DEPLOYED  0.1.0-master-0098-200629074950-6b54d3c  2
ccmts-infra-cloud-infra-app  ccmts-infra
```

```

cmts-app          -          DEPLOYED      0.1.0-master-01684-20200717.113024      1
  cmts-infra-cmts-app          ccmts-infra

```

- For Operations Hub

On <https://cli.opshub-data-ops-center.<opshub-ip>.nip.io/>, issue the **show helm charts** command:

```

opshub# show helm charts
CHART          INSTANCE  STATUS  VERSION          REVISION
RELEASE
-----
opshub-infra-app  -          DEPLOYED  0.1.0-master-0072-200716064131-448e7a9  1
  opshub-data-opshub-infra-app  opshub-data
opshub-app        -          DEPLOYED  0.1.0-master-00981-20200717.173450      1
  opshub-data-opshub-app        opshub-data

```

- For Common Execution Environment (CEE)

On https://cli.cee-data-ops-center.<cluster_ip>.nip.io/, issue the **show helm charts** command:

```

cee# show helm charts
CHART          INSTANCE  STATUS  VERSION          REVISION
RELEASE
-----
pv-manager      -          DEPLOYED  0.2.0-0-2-0010-200407004030-ffd6df1  1
  cee-data-pv-manager          cee-data
product-documentation  -          DEPLOYED  0.6.0-0-6-0034-200406235603-2d912b4  1
  cee-data-product-documentation  cee-data
smi-show-tac     -          DEPLOYED  0.2.0-0-2-0110-200511205022-12baf04  1
  cee-data-smi-show-tac        cee-data
smi-logs-forwarder  -          DEPLOYED  0.2.0-0-2-0115-200407004151-c4ae4d7  1
  cee-data-smi-logs-forwarder  cee-data
storage-provisioner  -          DEPLOYED  0.2.0-0-2-0088-200407003923-5557522  1
  cee-data-storage-provisioner  cee-data
cnat-monitoring   -          DEPLOYED  0.6.0-0-6-0022-200527190135-9f27c37  2
  cee-data-cnat-monitoring     cee-data

```

Cisco cnBR Router Documentation References

For information on Cisco cnBR, go through the following:

- *Cisco Cloud Native Broadband Router User's Guide, Release 20.2*
- *Cisco Cloud Native Broadband Router Operations Hub REST API Guide*

Cisco cnBR and Cisco Remote PHY Devices Version Compatibility

The versions of Cisco cnBR and RPD must be compatible. The following list provides information on the compatible Cisco cnBR and Cisco RPD versions:

- For Cisco cnBR, the supported RPD version is 8.3.

Browser Support

For the Cisco cnBR, the Operations Hub functionality is supported for the following browser versions:

- Mozilla Firefox 78.0 and later
- Google Chrome 83 and later or Google Chrome 84 and later

New and Changed Information

The following section lists the new software and hardware features supported on the Cisco cnBR in this release:

New Software Features in Cisco cnBR

Cisco cnBR 20.2 supports a range of virtualized network management microservices, diagnostic utilities, maintenance tools, operational functions, and extends integration support for external interfaces as well. The services are:

- **Network Services**

Cisco cnBR provides a host of network services, such as DHCP, PTP, BGP, L2VPN, and IPv6.

- **DOCSIS**

Cisco cnBR supports a host of DOCSIS-related features. The DOCSIS-related features are Upstream Resiliency, Downstream Resiliency, OFDM, DLM, and Spectrum Monitoring. The Cisco cnBR is compatible with D2.0, D3.0, and D3.1 Cable Modems (downstream-only for D3.1).

- **Voice**

The Cisco cnBR supports PacketCable v1.5 voice-related functionality.

- **Traffic Management**

Cisco cnBR supports traffic management utilities such as the DS QoS, Punt Rate, and ToS Overwrite.

- **Security**

You can enable security in Cisco cnBR by using the Packet Filtering and Source Verify features.

- **Monitoring**

The Cisco cnBR Metrics utility provides you with detailed analytical data.

- **Maintenance**

The Cisco cnBR provides easy utilities to help with your backups, system restore, offline upgrade, and other regular maintenance activities. Cisco cnBR supports Drain Worker Node, Offline Image Upgrade, and Export and Import Configuration.

- **Diagnostics**

You can avail of intensive data by using the diagnostic tools that are supported in Cisco cnBR. KPI & Alert Management and Cable Modem Diagnosis Tool are supported with this release.

- **Operations**

The Cisco cnBR provides support for several RPD operations such as RPD Cutover, SSD, Add, Delete, and Replace, along with this release.

- **External Interfaces**

Cisco cnBR extends support for external interfaces such as Internet Protocol Detail Record (IPDR), Simple Network Management Protocol (SNMP) and REST APIs. The IPDR, SNMP, and REST API interface are provided through the Operations Hub.

For detailed information on the supported services, their configuration, and usage, go through the *Cisco Cloud Native Broadband Router User's Guide, Release 20.2*.

Third-Party Tools Integration

Cisco cnBR provides integration with the following third-party tools:

- **Viavi XPERTrak**: For upstream spectrum capture.
- **Incognito MAP**: For channel and service (MAC Domain) utilization reports using the IPDR interface.