Release Notes for Cisco Cloud Native Broadband Router Version 20.2

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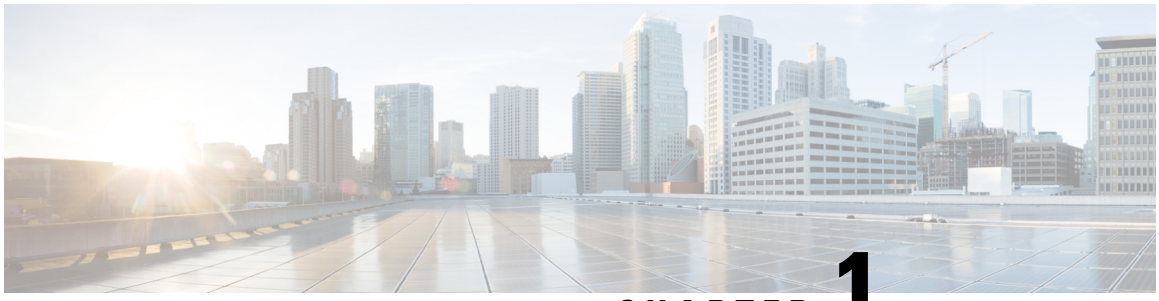

CHAPTER 1

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

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
     ccmts-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                       NAMESPACE
-------------------------------------------------------------------------------------
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                          NAMESPACE
-----------------------------------------------------------------------------------------
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**

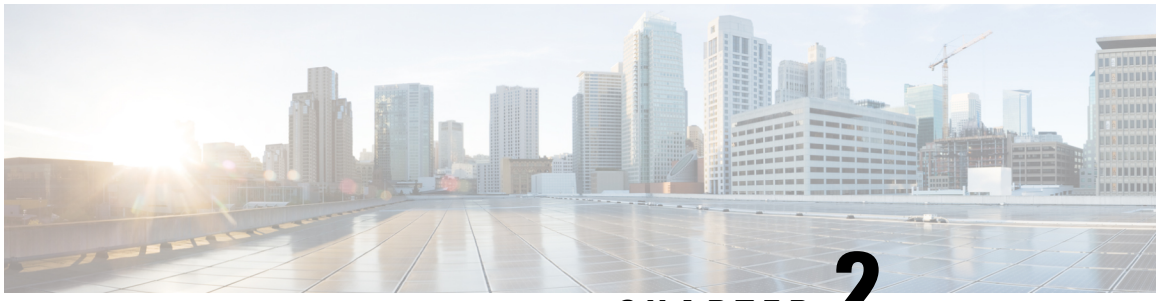
  Cisco cnBR extends support for external interfaces such as Internet Protocol Detail Record (IPDR), Simple Network Management Protocol (SNMP) and REST APIs. The IPDR, SNMP, and REST API interface are provided through the Operations Hub.

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.



CHAPTER 2

Caveat List

This chapter describes open severity 1 and 2 caveats and select severity 3 caveats:

- The *Open Caveats* sections list open caveats that apply to the current release and may apply to previous releases. A caveat that is open for a prior release and is still unresolved applies to all future releases until it is resolved.

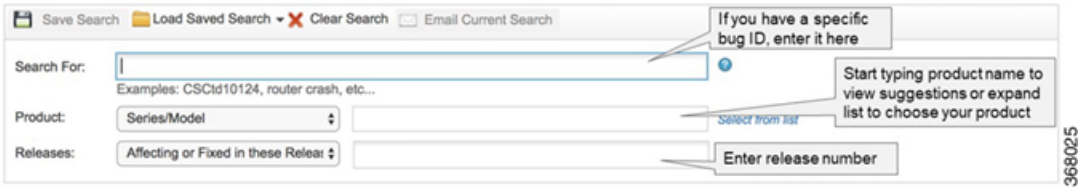
The bug IDs are sorted alphanumerically.

Note The Caveats section includes the bug ID and a short description of the bug. For details on the symptoms, conditions, and workaround for a specific caveat you must use the Bug Search Tool.

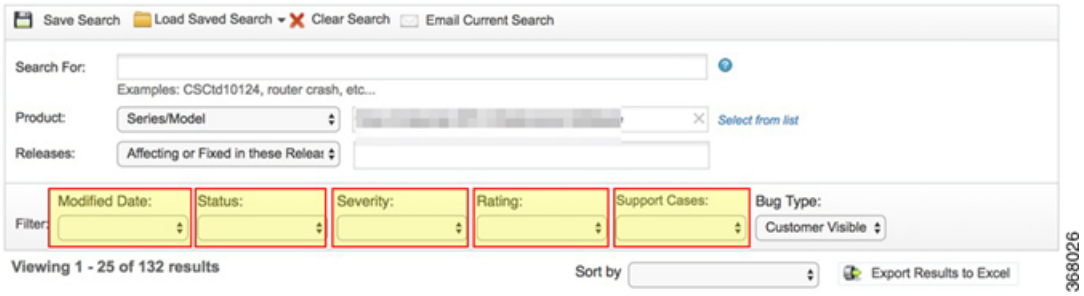
Cisco Bug Search

Use the Cisco Bug Search Tool to access open and resolved bugs for a release.

The tool allows you to search for a specific bug ID, or for all bugs specific to a product and a release.



You can filter the search results by last modified date, bug status (open, resolved), severity, rating, and support cases.



Open Caveats for Cisco cnBR 20.2

Caveat ID Number	Description
CSCvu35661	[PC1.5] voice traffic got interrupt due to GCP timeout
CSCvv00815	Day 1 cnBR Add fails with 504 Server Error: Gateway Time-out
CSCvu53260	DELETE SG API is not working in OpsHub
CSCvu98370	modems stats is not displayed correctly on OpsHub
CSCvu75471	Fail to rerun day1 script to apply cnBR config
CSCvu83104	After Power outage, the cnBR is having issues with PTP pods sync and RPDs with late maps or no maps
CSCvv01990	DLM does not work with IPv6 RPD
CSCvs98222	[3 way calling] 5 seconds gap from gates actually got deleted and caused the next call failed
CSCvu81755	Modems dropped and disappeared after UCS reboot
CSCvu99190	No map on several SGs after reboot UCS
CSCvv07878	Redirect link on dashboard doesn't work sometimes
CSCvv07848	"CPE Verbose" dashboard doesn't display data