Release Notes for Cisco Cloud Native Broadband Router Version 20.4

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Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
http://www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

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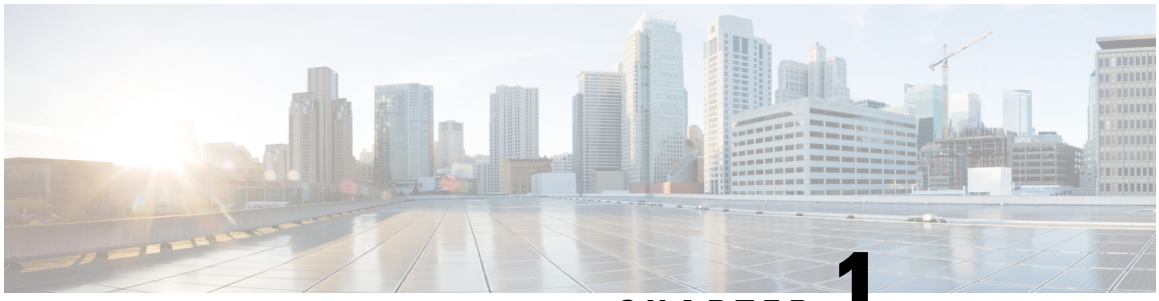

CHAPTER 1

What's New in Cisco cnBR 20.4

Note Explore the Content Hub, the all new portal that offers an enhanced product documentation experience.

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- Create customized PDFs for ready reference.
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Cisco is continuously enhancing the product with every release and this section covers a brief description of key features and enhancements that were added. It also includes links to detailed documentation, where available.

• New Software Features in Cisco cnBR 20.4, on page 1

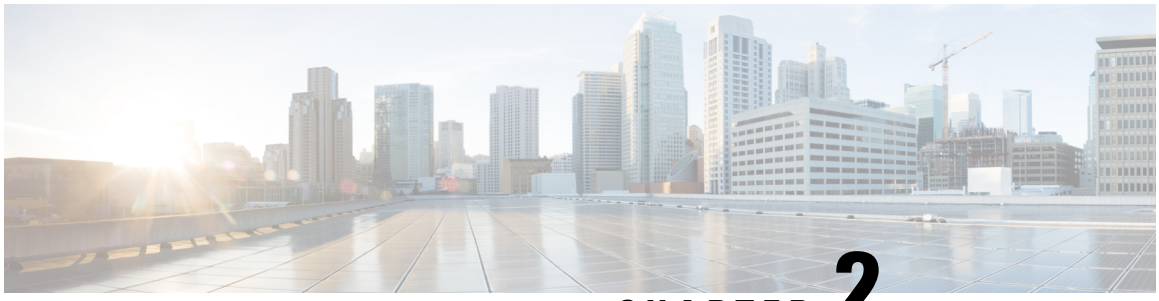
New Software Features in Cisco cnBR 20.4

Cisco cnBR 20.4 supports a range of intuitive menu options, virtualized network management microservices, diagnostic utilities, maintenance tools, and operational improvements as well. The new changes are:

- **Updated GUI**: The Cisco cnBR 20.4 provides an updated GUI. The updates are:
  - **Updated Interface and Applications:** The Cisco cnBR 20.4 introduces an updated Cisco Operations Hub Web User Interface and the Cisco cnBR Manager application.
  - **Cisco cnBR Manager**: The cnBR 20.3 Configurator tool has been replaced with the Cisco cnBR Manager application.
  - **Cisco Operations Hub Main Menu**: The Main Menu serves as the primary mechanism for navigating between the various components of Cisco Operations Hub and the Cisco cnBR Manager. The Main Menu icon, represented by three stacked rectangles, is located in the top-left corner of the Cisco Operations Hub WebUI.
  - **Cisco Operations Hub Help Menu:** The Help Menu enables you to quickly reach the Cisco cnBR Documentation Library page, API Documentation, Customer Support, and also provides information

on the Cisco Operations Hub version. The Help Menu, represented by the life preserver icon, is located in the top-right of the Cisco Operations Hub Web UI.

- **Updated Grafana Dashboard**: From Cisco cnBR 20.4 onwards, Cisco Operations Hub supports Grafana 7.2.1.
- **IPv6 CIN Support**: From Cisco cnBR 20.4 onwards, Converged Interconnect Network (CIN) is supported over IPv6. CIN enables you to build a robust, flexible, and scalable network to interconnect the CCAP-Core and RPDs in a solution topology. You can provision RPD with IPv6 to communicate with cnBR ccap-core through IPv6.
- **Cisco cnBR SP Router Redundancy**: Enables the Cisco cnBR to set up redundant connections to different SP routers. This redundancy ensures that a single link or SP router failure does not disrupt traffic flow for the CIN and WAN networks.
- **KPI Alert Management**: From Cisco cnBR 20.4 onwards, now provides improved alerts in Subscriber, RF Plant, and Infra KPI alert categories.
- **Policy-based Load Balancing**: Cisco cnBR now enables each service group (SG) to manage traffic-based on the weight that is assigned to the SG.



CHAPTER 2

Caveats

- Open Caveats for Cisco cnBR 20.4, on page 3
- Resolved Caveats for Cisco cnBR 20.4, on page 4
- Cisco Bug Search, on page 4

Open Caveats for Cisco cnBR 20.4

Caveat ID Number	Description
CSCvw15180	[PC1.5] Found stale gates and dynamic service flows after DP crash, after stopping the calls.
CSCvw75718	PTP announce-interval and sync-interval graphs are not showing units.
CSCvu83104	After power outage, the Cisco cnBR is having issues with PTP pods sync and RPDs with late maps or no maps.
CSCvw75778	BPI+ `net_access_disable` state is incorrect.
CSCvw71067	Operations Hub UI should warn user when login fails due to PW expired.
CSCvw13916	RPHYMGR REST API not responsive for 1 min after certain infra VM reload.
CSCvw27051	Incorrect DS traffic rate displayed in Cisco Operations Hub after DP crashes/restarts.
CSCvw09638	Cisco cnBR summary dashboard: Navigation from Service Group Table Pops up **Leave site** dialog.
CSCvw67194	D3.1 modems become offline due to OFDM unable to get DB table (after infra node shutdown and CM reset.
CSCvw75675	Pod `cmts-rt-ranging` crashed during restart and recovers by itself.
CSCvw15185	`Timescaledb` fails to start after UCS server shutdown/restart.
CSCvw75271	No DHCP offer on modems after reboot UCS due to DP unable to ping `dhcprelay`.
CSCvw71036	RPD state incorrect for RPDs requiring default password change.
CSCvw71065	Cisco Operations Hub Dashboard does not load when one UCS is down.

Caveat ID Number	Description
CSCvw27020	DS Traffic graph displayed wrongly in the Cisco Operations Hub, after delete and add RPD via Rest API.
CSCvw03898	D3.1 modem flaps after delete OFDM pod.
CSCvw75682	SGs not moved to other nodes after shutdown DOCSIS node due to RM fails to set node commission.
CSCvw75780	SNMP traps sent from the Cisco Operations Hub does not have virtual IP as source address.
CSCvw83313	No UGS US throughput if EMTA has PHS enabled.

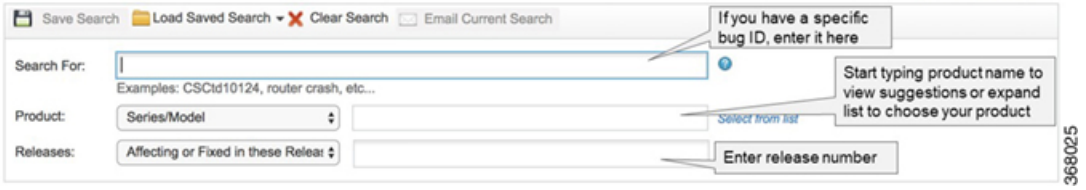
Resolved Caveats for Cisco cnBR 20.4

Caveat ID Number	Description
CSCvw16917	cnBR Error Logs not available on OpsHub Dashboard
CSCvw16909	Grafana Metrics > Modem List Dashboards showing no content when breadcrumb is used for back navigati
CSCvw16907	cmts_topology record is not generated while running IPDR collector
CSCvw16880	No Data in DS Channel Rate Dashboard Tables
CSCvw16908	Not Returning Data for few panels while doing login to Operations Hub as api-viewer
CSCvw17987	Active telemetry in cnbr flooded with telemetry data drop messages
CSCvw11040	kafka keeps crash after nodes powered off/powered on
CSCvw11367	pq: password authentication failed for user "grafanauser" after delete then re-add cnBR to OpsHub
CSCvw18567	Telemetry pod stops sending data to OpsHub after reboot cnBR infra node or UCS
CSCvw15187	autodeploy: day1 fails to apply 40 SGs due to NewConnectionError exceptions
CSCvw20081	Scheduler failed to add the SG after UCS reboot
CSCvw83315	CMs dropped during ranging restart

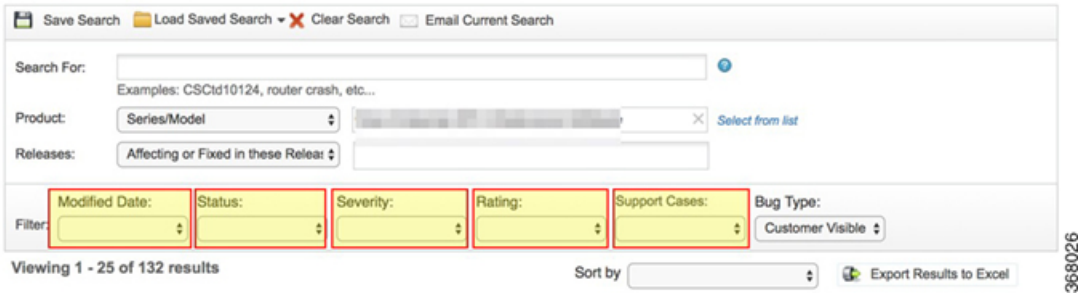
Cisco Bug Search

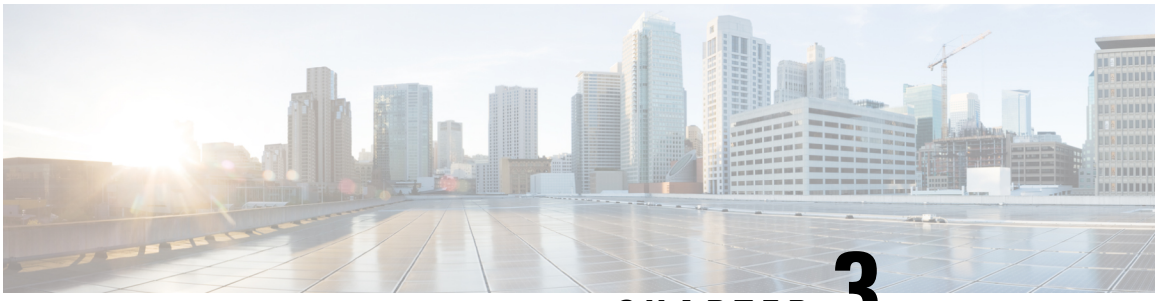
Use the Cisco Bug Search Tool to access open and resolved bugs for a release.

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.





CHAPTER 3

Supported Packages and System Requirements

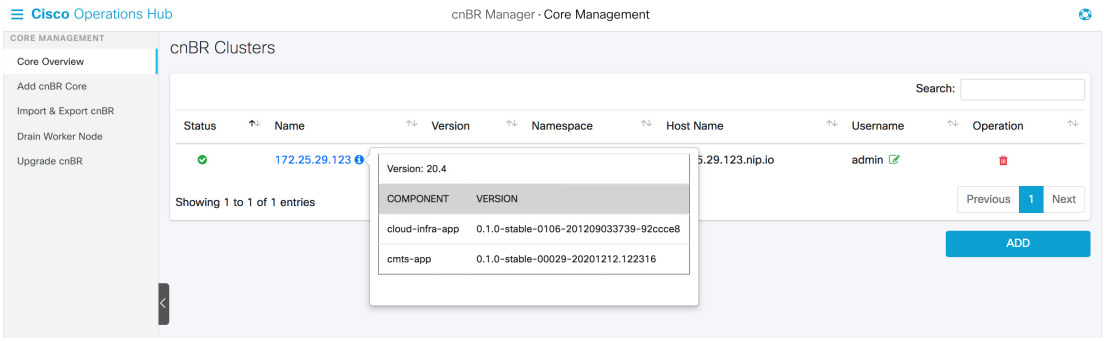
- Determining the Software Version for Cisco cnBR 20.4, on page 7

Determining the Software Version for Cisco cnBR 20.4

You can view the version of the Cisco cnBR components by using the following methods:

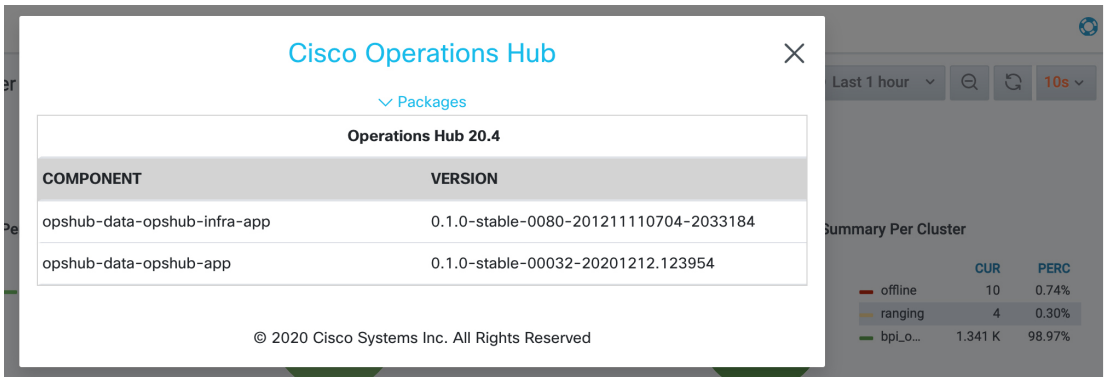
- To view the version of the Cisco cnBR cluster component, do the following:

  1. On the Cisco Operations Hub menu, click **cnBR Manager** > **Core Management** > **Core Overview**. The cnBR Clusters pane dispalys all the available cnBR clusters.
  2. On the Cisco cnBR clusters that are listed, click the **i** icon next to the cluster name. Information regarding the cnBR cluster component and the version are displayed.

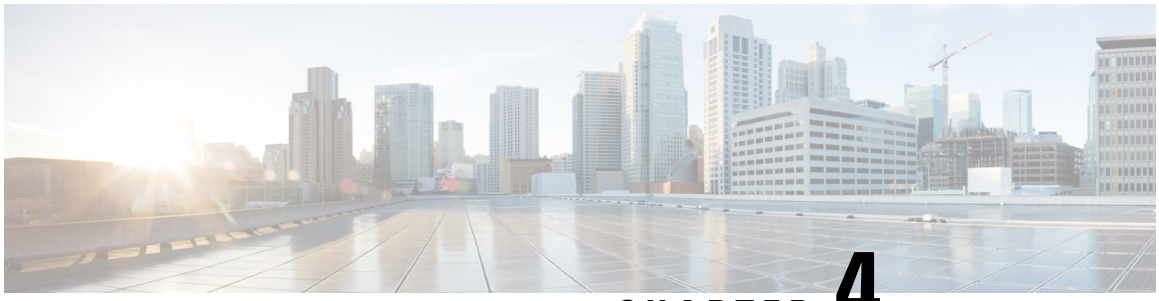


- To view the version of the Cisco cnBR Cisco Operations Hub, do the following:

  1. Click the **Help Menu**. This is represented by the lifebuoy icon on the top-right of the Cisco Operations Hub.
  2. Click **About**. Information on the Cisco Operations Hub version is displayed.


Cisco Operations Hub
Packages
Operations Hub 20.4
COMPONENT
VERSION
opshub-data-opshub-infra-app
0.1.0-stable-0080-201211110704-2033184
opshub-data-opshub-app
0.1.0-stable-00032-20201212.123954
© 2020 Cisco Systems Inc. All Rights Reserved
Last 1 hour
10s
Summary Per Cluster
CUR
PERC
offline
10
0.74%
ranging
4
0.30%
bpi_o...
1.341 K
98.97%

521377



CHAPTER 4

Other Important Information

- Cisco cnBR and Cisco Remote PHY Devices Version Compatibility, on page 9
- Browser Support, on page 9
- Third-Party Tools Integration, on page 9
- Cisco cnBR Router Documentation References, on page 10
- Contact Cisco Support, on page 10

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 20.4, the supported RPD version is 8.3. You can download it from this page.

Browser Support

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

- Mozilla Firefox 78 and later
- Google Chrome 83 and later
- Microsoft Edge 44 and later

Third-Party Tools Integration

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

- **Viavi XPERTrak**: For upstream spectrum capture.

  Validated Versions:

  - Viavi XPERTrak: 3.1, Build:91

- Viavi RCI: 1.5.13

Following steps are required in Viavi XPERTrak for successful modeling of cnBR in XPERTrak:

1. Locate cmts_class_factory.csv file in /cfg folder XPERTrak installation directory.
2. Add the following lines to the end of file cmts_class_factory.csv.

```
3.0,Cisco,Cloud +CMTS,true,Cisco_31_Cmts,CiscoCBR8,ciscoRciNodeInfo
3.1,Cisco,Cloud +CMTS,true,Cisco_31_Cmts,CiscoCBR8,ciscoRciNodeInfo
```

3. Restart XPERTrak.
4. Re-sync the CMTS.

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

  Validated Versions:

  - MAP: 6.5.1

Cisco cnBR Router Documentation References

For information on Cisco cnBR, go through the following:

- Cisco Cloud Native Broadband Router User's Guide, Release 20.4
- Cisco Cloud Native Broadband Router Operations Hub REST API Guide, Release 20.4

Contact Cisco Support

You can choose to open a ticket for any Cisco cnBR that you might encounter.

Complete the folloowng steps to contact Cisco Support:

1. On the Cisco cnBR Cisco Operations Hub, click the **Help Menu** icon > **Contact Support**.
2. Follow the Support Case Manager wizard to open a new case for your problem.