



Introduction



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This Release Notes contain information about downloading and installing Cisco Cloud Native Broadband Router (Cisco cnBR) version 20.3 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:

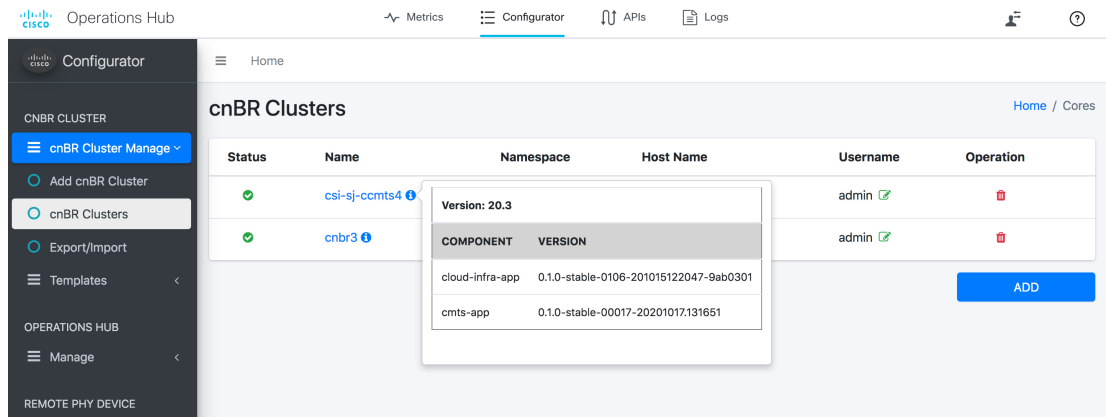
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Determining the Software Version for Cisco cnBR 20.3

From Cisco cnBR 20.3 onwards, you can choose to view the versions in Operations Hub.

On the Operations Hub, click **Configurator** > **cnBR Cluster Manager** > **cnBR Clusters**.

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.



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On the Operations Hub Home page, click ? icon to launch Operations Hub version dialog. Information regarding the Operations Hub version is displayed.



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Cisco cnBR Router Documentation References

For information on Cisco cnBR, go through the following:

- *Cisco Cloud Native Broadband Router User's Guide, Release 20.3*
- *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 and later
- Google Chrome 83 and later
- Microsoft Edge 44 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 20.3 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:

- **Cable Modem Troubleshooting**

The Operations Hub allows you to collect troubleshooting information for cable modems on-demand. You can also retrieve troubleshooting information that the Operations Hub automatically collects when it detects L3 ping failure.

URL: https://www.cisco.com/c/en/us/td/docs/cable/cmts/cnbr/user-guide/b-cnbr-user-guide-20-3/diagnosis.html#Cisco_Concept.dita_3415d841-59b2-4c58-ae01-d213ef96533c

- **Cisco cnBR Link Redundancy**

Link-redundancy protects the connection between a Cisco cnBR and a Service Provider (SP) router. When you connect a Cisco cnBR to an SP router (or uplink switch) using a 40G interface, a single link failure causes the whole service to fail. With this feature, you can enable another 40G interface to provide link-redundancy.

URL: https://www.cisco.com/c/en/us/td/docs/cable/cmts/cnbr/user-guide/b-cnbr-user-guide-20-3/setup.html#Cisco_Concept.dita_2e344829-7cee-478a-8337-c7fdf065eb9b

- **DOCSIS Set-Top Gateway**

DOCSIS Set-top Gateway (DSG) allows the configuration and transport of *out-of-band (OOB) messaging*. OOB messaging takes place between a Set-top Controller (or application servers) and the customer premise equipment (CPE).

URL: https://www.cisco.com/c/en/us/td/docs/cable/cmts/cnbr/user-guide/b-cnbr-user-guide-20-3/service-config.html#Cisco_Concept.dita_5325d303-a87c-49b2-b42b-221e6fd587a9

- **Fully Qualified Domain Name Support**

From Cisco cnBR 20.3 onwards, you can deploy Cisco cnBR and Operations Hub cluster using user defined fully qualified domain name (FQDN).

URL:

https://www.cisco.com/c/en/us/td/docs/cable/cmts/cnbr/user-guide/b-cnbr-user-guide-20-3/setup.html#Cisco_Concept.dita_07d83f54-4db3-3058-e29a7a

- **Second NIC Configuration on Operations Hub for Cable Modem Data**

From Cisco cnBR 20.3 onwards, you can configure second NIC on Operations Hub cluster that connects to CIN network, allowing Operations Hub to poll Cable Modem data such as SNR and TX/RX power.

URL: https://www.cisco.com/c/en/us/td/docs/cable/cmts/cnbr/user-guide/b-cnbr-user-guide-20-3/setup.html#Cisco_Concept.dita_82595982-983c-4da6-8bfa-3cc401a162c6

- **Multi-server Support**

From Cisco cnBR 20.3 onwards, you can install a cnBR cluster that includes 2 expansion servers, that is a 5-server cluster.

URL: https://www.cisco.com/c/en/us/td/docs/cable/cmts/cnbr/user-guide/b-cnbr-user-guide-20-3/overview.html#concept_alb_fv1_mnb

- **RPD SSD**

From Cisco cnBR 20.3 onwards, you can choose to upgrade the RPD SSD image using either the Express mode or Non-Express mode. For more information, see **RPD Secure Software Download** in *Cisco Cloud Native Broadband Router User's Guide, Release 20.3*.

URL: https://www.cisco.com/c/en/us/td/docs/cable/cmts/cnbr/user-guide/b-cnbr-user-guide-20-3/maintenance.html#Cisco_Concept.dita_8a497002-20f6-4807-8cc2-459f54531824

For detailed information on the supported services, their configuration, and usage, go through the *Cisco Cloud Native Broadband Router User's Guide, Release 20.3*.

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