



## What's New in Cisco cnBR 21.1

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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.

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## New Software Features in Cisco cnBR 21.1

Cisco cnBR 21.1 supports a range of improved menu options, flexible licensing capabilities, virtualized network management microservices, intuitive diagnostic utilities, maintenance tools, and operational improvements as well. The new changes are:

- **Smart Licensing:** Introduced from Cisco cnBR 21.1 onwards, Smart Licensing is a new, flexible way of licensing to buy, deploy, track, and renew Cisco software. With Smart Licensing, you can configure, activate, and register your device. Smart Licensing establishes a pool of software licenses or entitlements that are used across your entire enterprise in a flexible and automated manner.
- **Video QAM configuration:** From Cisco cnBR 21.1 release, you can configure RPD video QAM and OOB sources without using a cBR-8 or other core. The Cisco cnBR communicates with RPDs using GCP to configure video Downstream SC QAM channels and associated multicast forward static pseudowires.
- **Log Aggregation and Management:** From Cisco cnBR 21.1 onwards, the Cisco Operations Hub provides the Audit Dashboard, Debug Dashboard and a host of other utilities for log aggregation and management

activities. You can search, visualize, and create dashboards to have macro and micro views using the various visualization techniques and customizations.

- **View and Manage SG to cnBR node assignment:** From Cisco cnBR 21.1, you have better visibility and management on the Service Groups (SG) and the worker-node that they are running on. You can also migrate SGs to other worker nodes.

**Support user configurable OFDM guard bands:** From Cisco cnBR 21.1, you can override the default guard band configuration and configure the guard band of an OFDM channel. By default, Cisco cnBR uses the default guard band, which is based on the roll-off and spacing in the OFDM channel profile.

- **Support for configuring OFDM subcarriers using Frequency Offset:** You can now also configure the OFDM subcarrier ranges using the frequency offset (freqOffset) attribute in ofdmModProfs.
- **Support SG Modification use case without deleting and readding RPD:** Starting from Cisco cnBR 21.1, Cisco cnBR Manager allows you to edit RPDs serviced by a Cisco cnBR using the Configurator interface.
- **Multiserver - STATIC scale to 5 servers at a limited performance level:** From Cisco cnBR 21.1, node failure recovery is also supported with the deployment of expansion servers.
- **IPv6 WAN Protocols:** Cisco cnBR 21.1 supports WAN protocols over IPv6. The WAN protocols consist of IPv6 BGP Agent, IPv6 DHCP Relay Agent and Proxy, and IPv6 DMIC.