Cloud Native BNG Control Plane Release Change Reference, Release 2022.02

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About this Guide

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This Release Change Reference (RCR) describes new and modified feature and behavior change information for the applicable Cloud Native Broadband Network Gateway (cnBNG) Control Plane (CP) release.

• Conventions Used, on page v

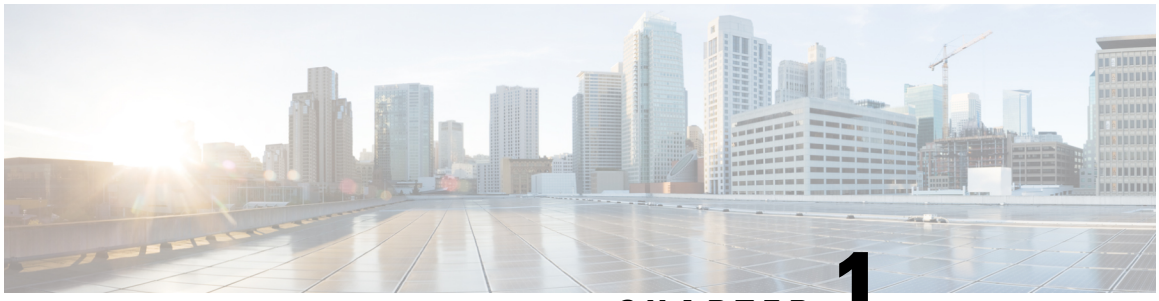
Conventions Used

The following tables describe the conventions used throughout this documentation.

Notice Type	Description
Information Note	Provides information about important features or instructions.
Caution	Alerts you of potential damage to a program, device, or system.
Warning	Alerts you of potential personal injury or fatality. May also alert you of potential electrical hazards.

Typeface Conventions	Description
Text represented as a `screen display`	This typeface represents displays that appear on your terminal screen, for example: `Login:`

Typeface Conventions	Description
Text represented as **commands**	This typeface represents commands that you enter, for example: **show ip access-list** This document always gives the full form of a command in lowercase letters. Commands are not case sensitive.
Text represented as a **command** *variable*	This typeface represents a variable that is part of a command, for example: **show card** *slot_number* *slot_number* is a variable representing the desired chassis slot number.
Text represented as menu or sub-menu names	This typeface represents menus and sub-menus that you access within a software application, for example: Click the **File** menu, then click **New**



CHAPTER 1

Cloud Native BNG Release Change Reference

- Features and Changes Quick Reference, on page 1
- Feature Defaults Quick Reference, on page 1
- Alarm Support, on page 2
- cnBNG All-in-One Deployment in a BareMetal Server, on page 2
- Leased IP Hold Time, on page 3
- Static IP Mapping Database, on page 4

Features and Changes Quick Reference

The following table provides the list of Cloud Native BNG (cnBNG) Control Plane (CP) features and changes in this release.

Features / Behavior Changes	Release Introduced / Modified
Alarm Support, on page 2	2022.02.0
cnBNG All-in-One Deployment in a BareMetal Server, on page 2	2022.02.0
Leased IP Hold Time, on page 3	2022.02.0
Static IP Mapping Database, on page 4	2022.02.0

Feature Defaults Quick Reference

The following table indicates what features are enabled or disabled by default.

Feature	Default
Alarm Support	Disabled – Configuration Required
cnBNG CNF Deployment on AIO BareMetal Server	Not Applicable
Leased IP Hold Time	Disabled – Configuration Required
Static IP Mapping Database	Disabled – Configuration Required

Alarm Support

Feature Summary and Revision History

Summary Data

Table 1: Summary Data

Applicable Product(s) or Functional Area	cnBNG
Applicable Platform(s)	SMI
Feature Default Setting	Disabled - Configuration Required
Related Documentation	Not Applicable

Revision History

Table 2: Revision History

Revision Details	Release
First introduced.	2022.02.0

Feature Description

When an anomaly is detected, the system generates a notification called an alarm or alert. The system triggers an alarm or alert when the statistics crosses the specified threshold. The Cloud Native BNG Control Plane uses the Common Execution Environment (CEE) infrastructure to generate alarms and SNMP traps.

For more information, see the Cloud Native BNG Control Plane Configuration Guide > Alarm Support chapter.

cnBNG All-in-One Deployment in a BareMetal Server

Feature Summary and Revision History

Summary Data

Table 3: Summary Data

Applicable Product(s) or Functional Area	cnBNG
Applicable Platform(s)	SMI
Feature Default Setting	Not Applicable

Related Changes in this Release	Not Applicable
Related Documentation	Not Applicable

Revision History

Table 4: Revision History

Revision Details	Release
First introduced.	2022.02.0

Feature Description

This release supports the cnBNG CNF Deployment on AIO BareMetal Server. This deployment enables onboarding a cnBNG Cloud Native Function (CNF) on the Cloud Native Deployment Platform (CNDP), which is on the BareMetal all-in-one (AIO) Kubernetes (K8s) cluster.

For more information, see the Cloud Native BNG Control Plane Configuration Guide > cnBNG Installation and Configuration chapter.

Leased IP Hold Time

Feature Summary and Revision History

Summary Data

Table 5: Summary Data

Applicable Product(s) or Functional Area	cnBNG
Applicable Platform(s)	SMI
Feature Default Setting	Disabled - Configuration Required
Related Documentation	Not Applicable

Revision History

Table 6: Revision History

Revision Details	Release
First introduced.	2022.02.0

Feature Description

The Leased IP Hold Time feature provides the flexibility to configure the cnBNG DHCP server to apply a hold time to the leased IP. After release from the client or lease expiry, the IP is not available for reuse for other clients until the hold time elapses.

For more information, see the Cloud Native BNG Control Plane Configuration Guide > DHCP and IPoE Subscriber Management chapter.

Static IP Mapping Database

Feature Summary and Revision History

Summary Data

Table 7: Summary Data

Applicable Product(s) or Functional Area	cnBNG
Applicable Platform(s)	SMI
Feature Default Setting	Disabled - Configuration Required
Related Documentation	Not Applicable

Revision History

Table 8: Revision History

Revision Details	Release
First introduced.	2022.02.0

Feature Description

The centralized IPAM component of the cnBNG CP enables mapping of static IPs for priority or VIP subscribers. The Static IP Mapping Database feature supports this requirement. It enables mapping of the MAC address of the subscriber to the static IP address. The static IP mapping database is maintained in the cnBNG CP, which ensures that the particular VIP subscriber receives the mapped static IP address every time the subscriber connects.

For more information, see the Cloud Native BNG Control Plane Configuration Guide > IP Address Management chapter.