



Cloud Native BNG Control Plane Release Change Reference, Release 2022.04

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



CHAPTER 1

Cloud Native BNG Control Plane Release Change Reference

- [Features and Behavior Change Quick Reference, on page 1](#)
- [Feature Defaults Quick Reference, on page 1](#)
- [DHCP IP Lease Reservation, on page 2](#)
- [UP Geo Redundancy , on page 2](#)

Features and Behavior Change 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
DHCP IP Lease Reservation	2022.04.0
UP Geo Redundancy	2022.04.0

Feature Defaults Quick Reference

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

Feature	Default
DHCP IP Lease Reservation	Disabled – Configuration Required
UP Geo Redundancy	Disabled – Configuration Required

DHCP IP Lease Reservation

Feature Summary

Table 1: Feature Summary

Applicable Product(s) or Functional Area	cnBNG
Applicable Platform(s)	SMI
Feature Default Setting	Disabled - Configuration Required
Related Documentation	<i>Cloud Native BNG Control Plane Configuration Guide</i>

Revision History

Table 2: Revision History

Revision Details	Release
First introduced	2022.04.0

Feature Description

DHCP IP Lease Reservation feature enables the DHCP to allocate an IP address dynamically when the subscriber logs into the network the first time. Then, the assigned IP address can be reserved permanently for the subscriber, which means, the same IP address is assigned every time the subscriber logs in.

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

UP Geo Redundancy

Feature Summary

Table 3: Feature Summary

Applicable Product(s) or Functional Area	cnBNG
Applicable Platform(s)	SMI
Feature Default Setting	Disabled – Configuration Required
Related Changes in this Release	First Release

Related Documentation	<i>Cloud Native BNG Control Plane Configuration Guide</i>
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Revision History

Table 4: Revision History

Revision Details	Release
First introduced	2022.04.0

Feature Description



Note This feature is Network Services Orchestrator (NSO) integrated.

To provide redundancy for the subscriber sessions, cnBNG supports Geographical Redundancy across multiple User Planes (UPs), without having any L1 or L2 connectivity between them. The UPs may be located in multiple geographical locations, and they have L3 connectivity over a shared core network through IP or MPLS routing.

Geo redundancy for subscribers is delivered by transferring the relevant session state from primary UP to subordinate UP which can then help in failover (FO) or planned switchover (SO) of sessions from one UP to another. Subscriber Redundancy Group (SRG) which is a set of access-interface (or a single access-interface) is introduced in cnBNG, and all subscribers in an SRG would FO or SO as a group.

Geo redundancy feature is currently supported for IPoE DHCP-triggered (IPv4, IPv6 and dual-stack) sessions.

For more information, see the [Cloud Native BNG Control Plane Configuration Guide > UP Geo Redundancy](#) chapter.

Feature Description