Release Notes for the Cisco Cloud Native BNG Control Plane, Version 2025.01.1

First Published: 2025-03-13

Cisco Cloud Native BNG Control Plane

Introduction

This Release Notes identifies changes and issues related to this software release.

Release Package Version Information

Software Packages	Version
bng.2025.01.1.SPA.tgz	2025.01.1
NED package	ncs-5.4.1.1-bng-nc-2025.01.1 ncs-6.1-bng-nc-2025.01.1
NSO	5.4.1.1 6.1

Descriptions for the various packages provided with this release are available in the Release Package Descriptions, on page 4 section.

Verified Compatibility

This version of the cnBNG Control Plane has been verified with the following software components/packages. Consult the individual components/packages release notes for details.

Products	Version
BNG UP (ASR 9K)	IOS XR Release 25.1.1*
SMI CEE	2025.01.1.14
SMI Cluster Deployer	2025.01.1.14
SMI Base ISO Image	22.04.0-20250107

*Subject to feature availability.

What's New in This Release

cnBNG 2025.01.1 is an emergency release for the cnBNG Control Plane, and it does not introduce any new software features.

For information on the features introduced in the previous version, cnBNG 2025.01.0, see Release Notes for the cnBNG Control Plane, Version 2025.01.0.

Installation and Upgrade Notes

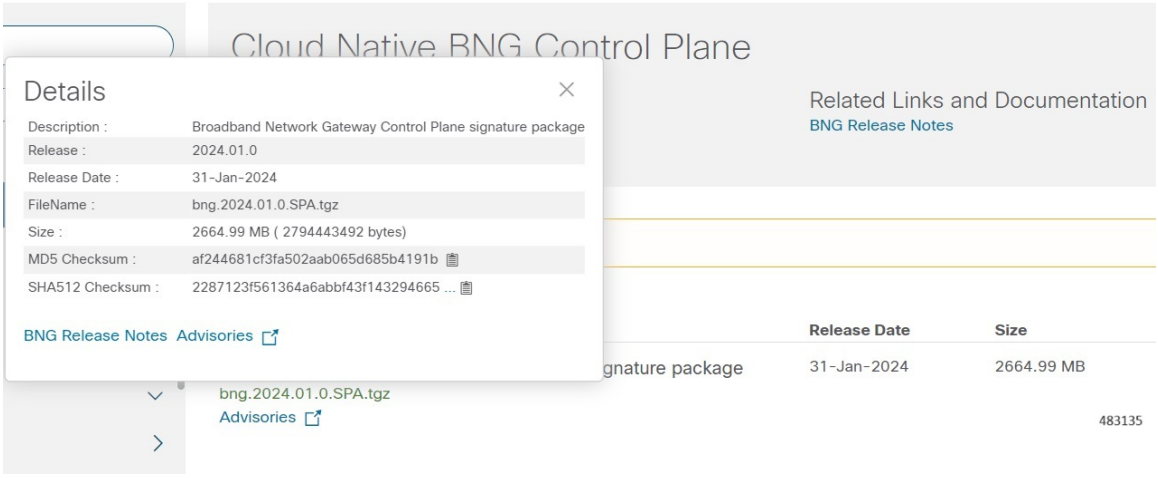
This Release Note does not contain general installation and upgrade instructions. Refer to the existing installation documentation for specific installation and upgrade considerations.

Software Integrity Verification

To verify the integrity of the software image you have from Cisco, you can validate the SHA512 checksum information against the checksum identified by Cisco for the software.

Image checksum information is available through **Cisco.com Software Download Details**. To find the checksum, hover the mouse pointer over the software image you have downloaded.

The following screenshot is an example of a cnBNG CP release posted in the Software Download page.



At the bottom you find the SHA512 checksum, if you do not see the whole checksum you can expand it by pressing the "..." at the end.

To validate the information, calculate a SHA512 checksum using the information in Table 1 and verify that it matches either the one provided on the software download page.

To calculate a SHA512 checksum on your local desktop, refer to the following table.

Table 1: Checksum Calculations per Operating System

Operating System	SHA512 checksum calculation command examples
Microsoft Windows	Open a command line window and type the following command: **`> certutil.exe -hashfile`** *`filename.extension`* **`SHA512`**

Operating System	SHA512 checksum calculation command examples
Apple MAC	Open a terminal window and type the following command: **$ shasum -a 512** *filename.extension*
Linux	Open a terminal window and type the following command: **$ sha512sum** *filename.extension* Or **$ shasum -a 512** *filename.extension*
NOTES: *filename* is the name of the file. *extension* is the file extension (for example, .zip or .tgz).	

If the SHA512 checksum matches, you can be sure that no one has tampered with the software image or the image has not been corrupted during download.

If the SHA512 checksum does not match, we advise you to not attempt upgrading any systems with the corrupted software image. Download the software again and verify the SHA512 checksum again. If there is a constant mismatch, please open a case with the Cisco Technical Assistance Center.

Certificate Validation

cnBNG CP software images are signed via x509 certificates. View the .README file packaged with the software for information and instructions on how to validate the certificates..

Open Bugs for this Release

The following table lists the open bugs in this specific software release.

Note This software release may contain open bugs first identified in other releases. Additional information for all open bugs for this release are available in the Cisco Bug Search Tool.

Bug ID	Headline
CSCwn62563	2025.01.1.i07 - Critical 213097 Ubuntu 20.04 LTS / 22.04 LTS

Resolved Bugs for this Release

The following table lists the resolved bugs in this specific software release.

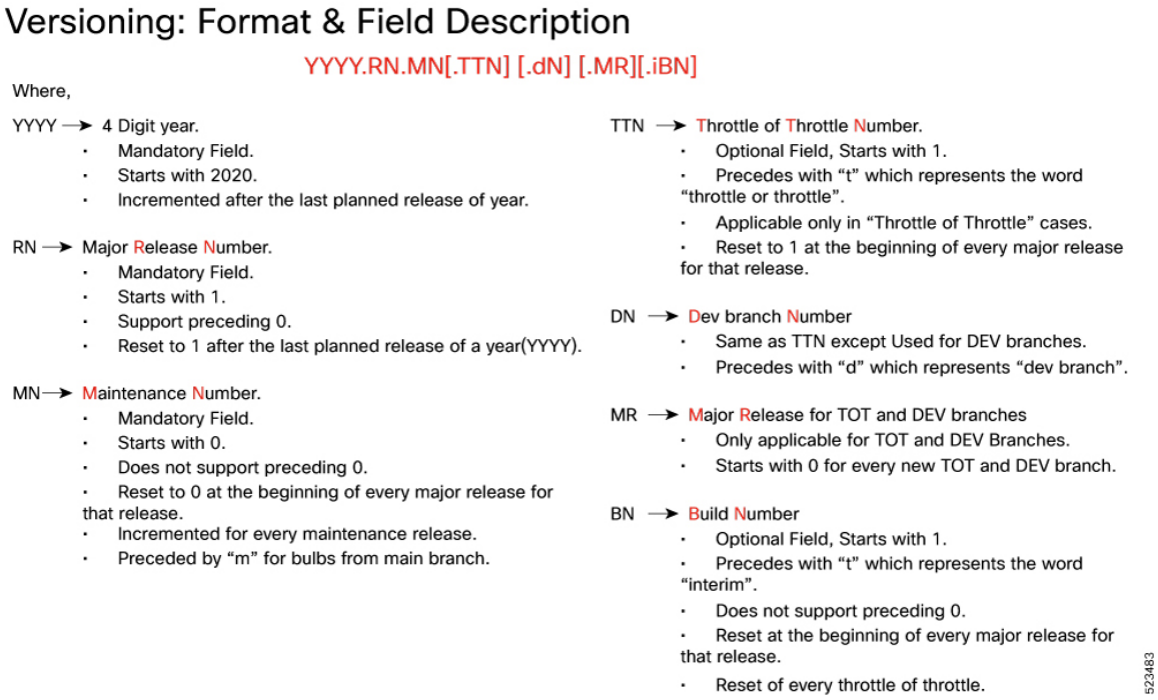
Note This software release may contain bug fixes first introduced in other releases. Additional information for all resolved bugs for this release are available in the Cisco Bug Search Tool.

Bug ID	Headline	Behavior Change
CSCwn71437	[SVI-L3-Routed-Jan'25] Nodemgr Crash during L3 call-model longevity with HA	No

Operator Notes

Cloud Native Product Version Numbering System

The show helm list command displays detailed information about the version of the cloud native product currently deployed.



The appropriate version number field increments after a version has been released. The new version numbering format is a contiguous sequential number that represents incremental changes between releases. This format facilitates identifying the changes between releases when using Bug Search Tool to research software releases.

Release Package Descriptions

The following table provides descriptions for the packages that are available with this release.

Software Packages	Description
bng.<version>.SPA.tgz	The cnBNG CP offline release signature package. This package contains the cnBNG CP deployment software as well as the release signature, certificate, and verification information.
ncs-<nso_version>-bng-nc-<version>.tar.gz	The NETCONF NED package. This package includes all the yang files that are used for NF configuration. Note that NSO is used for the NED file creation.
ncs-<nso_version>-cisco-bng-smi-deployer-<version>.tar.gz	This is the NSO Core-Function-Pack for Day 0/Day 1 installation of cnBNG CP.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, refer to https://www.cisco.com/c/en/us/support/index.html.

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