



Release Notes for the Cisco Cloud Native BNG Control Plane, Version 2021.04.0

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Introduction

This Release Notes identifies changes and issues related to this software release. This release is the next release after 2021.04.0.

Release Package Version Information

Software Packages	Version
2021.04.0.105.tgz	2021.04.0

Descriptions for the various packages provided with this release are in the [Release Package Descriptions](#) section.

Verified Compatibility

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

Products	Version
BNG UP (ASR 9K)	IOS XR Release 7.3.1, 7.4.1, and 7.4.2*
SMI CEE	2020.02.6.04
SMI Cluster Deployer	2020.02.6.04
SMI Base ISO Image	20210817

*Subject to feature availability

Feature and Behavior Changes

For a complete list of feature and behavior changes associated with this software release, refer to the *Cloud Native BNG Control Plane Release Change Reference*.

Related Documentation

For a complete list of documentation available for this release, go to:

<https://www.cisco.com/c/en/us/support/routers/cloud-native-bng-control-plane/model.html>

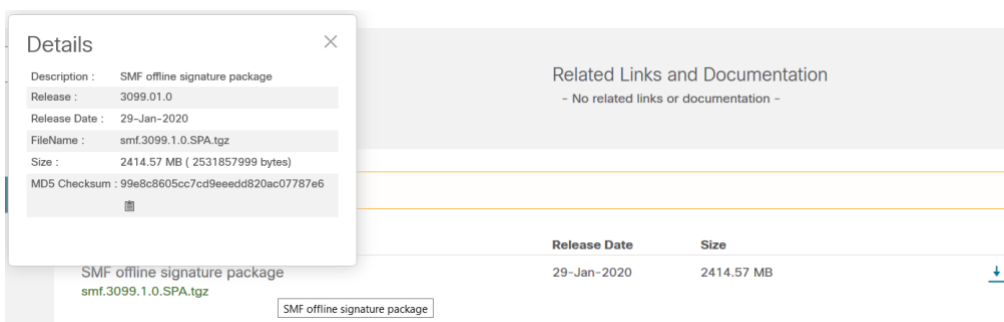
Installation and Upgrade Notes

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.



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 the one provided on the software download page.

To calculate a SHA512 checksum on your local desktop please see the table below.

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 <code>> certutil.exe -hashfile <filename>.<extension> SHA512</code>
Apple MAC	Open a terminal window and type the following command <code>\$ shasum -a 512 <filename>.<extension></code>
Linux	Open a terminal window and type the following command <code>\$ sha512sum <filename>.<extension></code> Or <code>\$ shasum -a 512 <filename>.<extension></code>
NOTES: <filename> is the name of the file. <extension> is the file extension (e.g. .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. Please 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 known bugs that were found in this software release, and which remain open.

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
CSCwa06677	[cnBNG-SVI] sm pods crashed after service VM was rebooted during longevity run

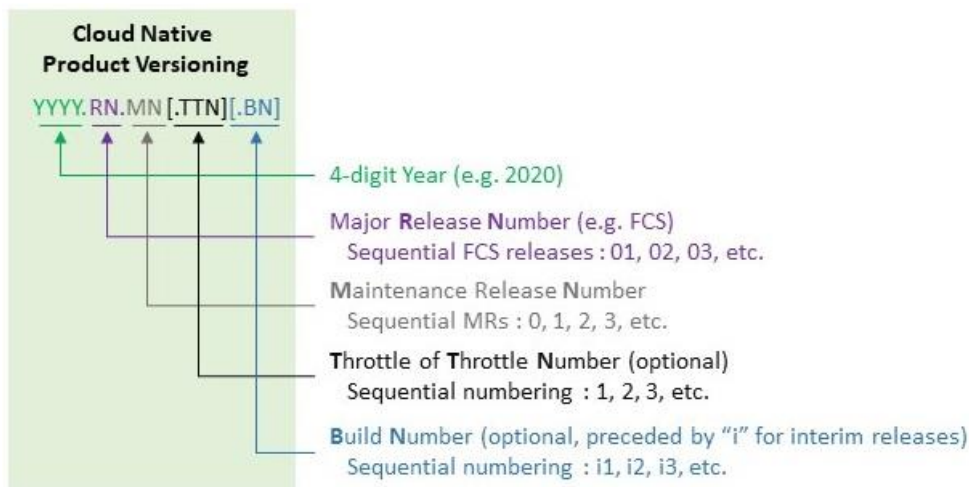
Resolved Bugs for This Release

None in this release.

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

[Table 2](#) provides descriptions for the packages that are available with this release.

Table 2 - Release Package Information

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.

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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