

# Release Notes for the 5G Converged Core Session Management Function Version 2023.01.1

First Published: January 25, 2023 Last Updated: February 14, 2023

#### Introduction

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

#### Release Lifecycle Milestones

Release Lifecycle Milestone	Milestone	Date
First Customer Ship	FCS	31-Jan-2023
End of Life	EoL	31-Jan-2023
End of Software Maintenance	EoSM	31-Jul-2024
End of Vulnerability and Security Support	EoVSS	31-Jul-2024
Last Date of Support	LDoS	31-Jul-2025

These milestones and the intervals between them are defined in the <u>Cisco Ultra Cloud Core (UCC) Software Release Lifecycle Product</u> Bulletin available on cisco.com.

#### **Release Package Version Information**

Software Packages	Version
ccg.2023.01.1.SPA.tgz	2023.01.1

**NOTE:** The *ccg.*<*version*>.*SPA.tgz* software package is common to both the cnSGW and SMF 5G Network Functions (NF). The deployment and configuration procedure determines the NF deployment.

Descriptions for the software packages provided with this release are available in the Release Package Descriptions section.

#### **Verified Compatibility**

Products	Version
Ultra Cloud Core SMI	2023.01.1.18
Ultra Cloud CDL	1.10.2
Ultra Cloud Core UPF	2023.01.0
Ultra Cloud cnSGWc	2023.01.0

# **Related Documentation**

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

 $\underline{https://www.cisco.com/c/en/us/support/wireless/ultra-cloud-core-session-management-function/tsd-products-support-series-home.html$ 

# Installation and Upgrade Notes

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

**NOTE:** In this software release, you must deploy SMF in merged mode only. For more information on this mode, see the *UCC SMF Configuration and Administration Guide* and *UCC cnSGWc Configuration and Administration Guide*.

#### **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 <u>Table 1</u> 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

<extension> is the file extension (e.g. .zip or .tgz).

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</extension></filename>
Apple MAC	Open a terminal window and type the following command
	\$ shasum -a 512 <filename>.<extension></extension></filename>
Linux	Open a terminal window and type the following command
	\$ sha512sum <filename>.<extension></extension></filename>
	Or
	\$ shasum -a 512 <filename>.<extension></extension></filename>
NOTES:	<u></u>

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

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

corrupted during download.

SMF 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 are open 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 <u>Cisco Bug Search Tool</u>.

Bug ID	Headline	Behavior Change
<u>CSCwe17070</u>	Takes multiple attempts set geo maintenance mode true or false on SMF.	No

# Resolved Bugs for this Release

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

#### **Operator Notes**

**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 <u>Cisco Bug Search Tool</u>.

Bug ID	Headline	Behavior Change
CSCwe35356	SMF 5G LI X2: failureCause and initiator field BER encoding error.	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.

#### Versioning: Format & Field Description

YYYY.RN.MN[.TTN] [.dN] [.MR][.iBN] YYYY → 4 Digit year. TTN → Throttle of Throttle Number. Mandatory Field Optional Field, Starts with 1.
Precedes with "t" which represents the word Starts with 2020 "throttle of throttle".

Applicable only in "Throttle of Throttle" cases Incremented after the last planned release of year. RN → Major Release Number. Reset to 1 at the beginning of every major release Mandatory Field Starts with 1. DN → DEV branch Number. Support preceding 0. Reset to 1 after the last planned release of a year(YYYY) Same as TTN, except Used for DEV branches Precedes with "d" which represents "dev branch". MN -> Maintenance Number. MR -> Major Release for TOT and DEV branches Mandatory Field Only applicable for TOT and DEV Branches.
Starts with 0 for every new TOT and DEV branch

Total Control of the second se Does not support preceding 0. Reset to 0 at the beginning of every major release for that BN → Build Number Optional Field, Starts with 1 Optional Field, Starts with 1.
 Precedes with "i" which represents the word Incremented for every maintenance release. Preceded by 'm' for builds from main branch "interim". Does not support preceding 0. Reset at the beginning of every major release for

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.

Reset for every throttle of throttle.

## **Release Package Descriptions**

Table 2 provides descriptions for the software packages that are available with this release.

**Table 2 - Release Package Information** 

Software Packages	Description
ccg. <version>.SPA.tgz</version>	The SMF offline release signature package. This package contains the SMF deployment software as well as the release signature, certificate, and verification information.

**NOTE:** The *ccg.*<*version*>.*SPA.tgz* software package is common to both the cnSGW and SMF 5G Network Functions (NF). The deployment and configuration procedure determines the NF deployment.

Obtaining Documentation and Submitting a Service Request

# 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 <a href="https://www.cisco.com/c/en/us/support/index.html">https://www.cisco.com/c/en/us/support/index.html</a>.

Obtaining Documentation and Submitting a Service Request

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