

# Release Notes for the Ultra Cloud Core Session Management Function, Version 2024.01.1

First Published: 2024-02-27

# **5G Converged Core Session Management Function**

#### 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	30-Apr-24
End of Life	EoL	30-Apr-24
End of Software Maintenance	EoSM	29-Oct-25
End of Vulnerability and Security Support	EoVSS	31-Oct-25
Last Date of Support	LDoS	31-Oct-26

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

### **Release Package Version Information**

Software Packages	Version
ccg-2024.01.1.SPA.tgz	2024.01.1
NED package	ncs-5.6.8-ccg-nc-2024.01.1 ncs-6.1-ccg-nc-2024.01.1
NSO	5.6.8 6.1.3

Descriptions for the various packages provided with this release are available in the Release Package Descriptions, on page 5 section.

#### **Verified Compatibility**

Products	Version
Ultra Cloud Core SMI	2024.01.1
Ultra Cloud CDL	1.11.6
Ultra Cloud Core UPF	2024.01.0
Ultra Cloud cnSGWc	2024.01.1

For information on the Ultra Cloud Core products, refer to the documents for this release available at:

- https://www.cisco.com/c/en/us/support/wireless/ultra-cloud-core-subscriber-microservices-infrastructure/ products-installation-and-configuration-guides-list.html
- https://www.cisco.com/c/en/us/support/wireless/ultra-cloud-core-user-plane-function/ products-installation-and-configuration-guides-list.html
- https://www.cisco.com/c/en/us/support/wireless/ultra-cloud-core-serving-gateway-function/products-installation-and-configuration-guides-list.html

## What's New in this Release

#### **New in Documentation**

This version of Release Notes includes a new section titled **What's New in this Release** comprising all new features, enhancements, and behavior changes applicable for the release.

This section will be available in all the 5G release notes and will supersede content in the Release Change Reference (RCR) document. Effective release 2024.01, the RCR document will be deprecated.

#### **Features and Enhancements**

This section covers a brief description of the features and enhancements introduced in this release. It also includes links to detailed documentation, where available.

Feature	Description
Enable IPv6 Connectivity for SMF with Legacy Interfaces	SMF with legacy interfaces allows IPv6 address configuration to enable communication with the GTP, N4, Gx, and Gy interfaces. With this support, both IPv4 and IPv6 addresses can be used for peer connections. One peer connection can use either IPv4 or IPv6 address.
	To enable IPv6 connectivity, SMF uses the existing endpoint { bgpspeaker   diameter   dns-proxy   geo   gtp   gtpprime   li   nodemgr   pfcp   protocol   radius   radius-dns   sbi   service   sgw-service } and dual-stack-transport { false   true } CLI commands.  Default Setting: Disabled – Configuration Required

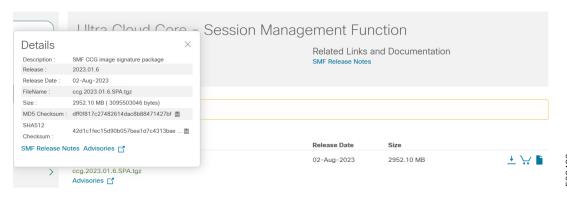
## **Installation and Upgrade Notes**

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: Checksum Calculations per Operating System 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 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:
	> certutil.exe -hashfile filename.extension SHA512
Apple MAC	Open a terminal window and type the following command:
	\$ shasum -a 512 filename.extension

Operatin	g System	SHA512 checksum calculation command examples
Linux		Open a terminal window and type the following command:
		\$ sha512sum filename.extension
		OR
		\$ shasum -a 512 filename.extension
Note	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**

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**

There are no open bugs in this software release.

## **Resolved Bugs for this Release**

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



Note

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

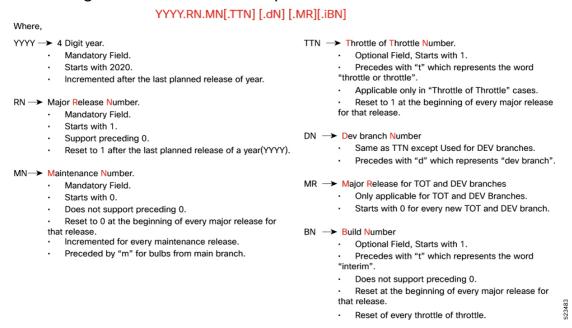
Bug ID	Headline	Behavior Change
CSCwi96372	IOT smf-service crash while running mon sub (version No ccg.2024.01.0)	No

## **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



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.

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, NED package, as well as the release signature, certificate, and verification information.
ncs- <nso_version>-ccg-nc-<version>.tar.gz</version></nso_version>	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.

## **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>.