



Release Notes for UCC 5G cnSGWc, Release 2026.03.0

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Ultra Cloud Core - Serving Gateway Function, Release 2026.03.0

This Release Notes identifies changes and issues related to the software release of Ultra Cloud Core (UCC) Serving Gateway Control Plane Function (cnSGWc).

The key highlight of this release include:

- ULB integration for GTPC and PFCP traffic: Enhances network reliability and scalability by leveraging the ULB to intelligently distribute control-plane traffic, ensuring consistent performance and optimal resource utilization.
- Enhanced troubleshooting via targeted subscriber diagnostics: Enables operators to isolate and analyze specific subscriber sessions on designated nodes, facilitating faster issue resolution and minimizing service impact during diagnostic testing.

For more information about Ultra Cloud Core - Serving Gateway Control Plane Function, see the [Related resources](#) section.

Release lifecycle milestones

The following table provides EoL milestones for Cisco UCC cnSGWc software:

Table 1. EoL milestone information for UCC cnSGWc, Release 2026.03.0

Milestone	Date
First Customer Ship (FCS)	23-July-2026
End of Life (EoL)	23-July-2026
End of Software Maintenance (EoSM)	22-Jan-2028
End of Vulnerability and Security Support (EoVSS)	31-Jan-2028
Last Date of Support (LDoS)	31-Jan-2029

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.

New software features

This section provides a brief description of the new software features introduced in this release.

Table 2. New software features for UCC cnSGWc, Release 2026.03.0

Product impact	Feature	Description
Software Reliability	ULB integration for PFCP traffic	This release introduces ULB-based ingress and egress routing for PFCP traffic, enabling scalable traffic distribution. The enhancement optimizes PFCP control-plane traffic handling and supports efficient scaling in cloud-native deployments.

Product impact	Feature	Description
Software Reliability	ULB integration for GTPC traffic	This release introduces ULB-based ingress and egress routing for GTPC traffic, enabling scalable traffic distribution and session-aware message steering. The enhancement optimizes control-plane traffic handling and supports efficient scaling in cloud-native deployments.
Software Reliability	SGW-U selection based on system diagnostics	This feature enables operators to set up a system-diagnostics configuration. It allows pinning the specific subscribers to a target UPF, identified by its node IP address. Command introduced: preferred-up node-id <i>upf_address</i>-This CLI command allows configure the preferred user plane node IP address

Changes in behavior

There are no behavior changes in this specific software release.

Resolved issues

This table lists the resolved issues in this specific software release.

Note: This software release may contain bug fixes first introduced in other releases. To see additional information, click the bug ID to access the [Cisco Bug Search Tool](#). To search for a documented Cisco product issue, type in the browser: <bug_number> site:cisco.com.

Table 3. Resolved issues for UCC cnSGWc, Release 2026.03.0

Bug ID	Description
CSCwt67446	cnSGW not reporting User location changes in CDR for an EBI of subscriber with Multiple default bearers (same QCI and same APN).

Open issues

This table lists the resolved issues in this specific software release.

Note: This software release may contain bug fixes first introduced in other releases. To see additional information, click the bug ID to access the [Cisco Bug Search Tool](#). To search for a documented Cisco product issue, type in the browser: <bug_number> site:cisco.com.

Table 4. Open issues for UCC cnSGWc, Release 2026.03.0

Bug ID	Description
CSCwu87850	gtpc s11 pod go routine constantly showing high during longevity run post SMI upgrade.

Compatibility

This section lists compatibility information of the Cisco UCC software products that are verified to work with this version of the UCC cnSGWc software.

Table 5. Compatibility information for UCC cnSGWc, Release 2026.03.0

Product	Supported Release
Ultra Cloud Core SMI	2026.03.1.08
Ultra Cloud CDL	2.3.0
Ultra Cloud Core UPF	2026.03.0
Ultra Cloud SMF	2026.03.0

Supported software packages

This section provides information about the release packages associated with UCC cnSGWc software.

Table 6. Software packages for UCC cnSGWc, Release 2026.03.0

Software Package	Description	Release
cgc-2026.03.0.SPA.tgz	The offline release signature package. This package contains the deployment software, NED package, as well as the release signature, certificate, and verification information.	2026.03.0
ncs-6.4.8.3-cgc-nc-1.1.2026.03.0.tar.gz	The NETCONF NED package. This package includes all the yang files that are used for NF configuration.	6.4.8.3
ncs-6.1.14-cgc-nc-1.1.2026.03.0.tar.SPA.tgz	Note that NSO is used for the NED file creation.	6.1.14

Cloud native product version numbering system

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

Figure 1. Cloud native product versioning format and description
Versioning: Format & Field Description

Where,
YYYY → 4 Digit year.

- Mandatory Field.
- Starts with 2020.
- Incremented after the last planned release of year.

RN → Major Release Number.

- Mandatory Field.
- Starts with 1.
- Support preceding 0.
- Reset to 1 after the last planned release of a year(YYYY).

MN → Maintenance Number.

- Mandatory Field.
- Starts with 0.
- Does not support preceding 0.
- Reset to 0 at the beginning of every major release for that release.
- Incremented for every maintenance release.
- Preceded by "m" for bulbs from main branch.

TTTT → Throttle of Throttle Number.

- Optional Field, Starts with 1.
- Precedes with "t" which represents the word "throttle or throttle".
- Applicable only in "Throttle of Throttle" cases.
- Reset to 1 at the beginning of every major release for that release.

DN → Dev branch Number

- Same as TTN except Used for DEV branches.
- Precedes with "d" which represents "dev branch".

MR → Major Release for TOT and DEV branches

- Only applicable for TOT and DEV Branches.
- Starts with 0 for every new TOT and DEV branch.

BN → Build Number

- Optional Field, Starts with 1.
- Precedes with "i" which represents the word "interim".
- Does not support preceding 0.
- Reset at the beginning of every major release for that release.
- Reset of every throttle of throttle.

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

Software integrity version

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.

Figure 2. Sample of converged core gateway software image

Details

- Description : SMF CCG image signature package
- Release : 2023.01.6
- Release Date : 02-Aug-2023
- FileName : ccg.2023.01.6.SPA.tgz
- Size : 2952.10 MB (3095503046 bytes)
- MD5 Checksum : dff0817c27482614dac8b88471427bf
- SHA512 Checksum : 42d1c1fec15d90b057bea1d7c4313bae ...

[SMF Release Notes](#) [Advisories](#)

Release Date	Size
02-Aug-2023	2952.10 MB

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 the following table and verify that it matches the one provided on the software download page.

To calculate a SHA512 checksum on your local desktop, see this table.

Table 7. Checksum calculations per operating system

Operating System	SHA512 checksum calculation command examples
Microsoft Windows	Open a command line window and type the following command:

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Operating System	SHA512 checksum calculation command examples
	> certutil.exe -hashfile <filename.extension> SHA512
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>
Note: <filename> is the name of the file. <extension> is the file type 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 not to 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

The software images are signed via x509 certificates. For information and instructions on how to validate the certificates, refer to the README file packaged with the software

Related resources

This table provides key resources and links to the support information and essential documentation for cnSGWc and other Ultra Cloud Core (UCC) products.

Table 8. Related resources and additional information

Resource	Link
cnSGWc documentation	Serving Gateway Function
SMF documentation	Session Management Function
SMI documentation	Subscriber Microservices Infrastructure
UPF documentation	User Plane Function
Service request and additional information	Cisco Support

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