Release Notes for UCC 5G SMF and cnSGWc, Release 2026.04.1

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Ultra Cloud Core - Session Management and Serving Gateway Function, Release 2026.04.1

This Release Notes identifies changes and issues related to the software release of 5G Converged Core Session Management Function (SMF) and Serving Gateway Control Plane Function (cnSGWc).

The key highlight of this release includes:

- Offline Rating Group reporting and trigger suppression in CDR-I: This feature allows the service provider to report offline rating groups, gain early visibility into the charging function, and suppress unwanted triggers.

For more information about Ultra Cloud Core – Session Management Function and Serving Gateway Control Plane Function (cnSGWc), see the Related resources section.

Release lifecycle milestones

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

Table 1. EoL milestone information for UCC SMF and cnSGWc, Release 2026.04.1

Milestone	Date
First Customer Ship (FCS)	5-Nov-2026
End of Life (EoL)	5-Nov-2026
End of Software Maintenance (EoSM)	5-May-2028
End of Vulnerability and Security Support (EoVSS)	5-May-2028
Last Date of Support (LDoS)	31-May-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 SMF and cnSGWc, Release 2026.04.1

Product impact	Feature	Description
Software Reliability	Offline Rating Group reporting and trigger suppression in CDR-I	SMF supports offline Rating Group reporting for dynamic charging rules in CDR-I when the custom-cfd2 dictionary is configured. It suppresses charging triggers in CDR-I and supports reporting applicable Rating Groups as RG only MUU entries upon offline CHF failover. This functionality applies only to dynamic charging rules and CDR-I. CDR-U, CDR-T, and static or predefined charging rules are unaffected.

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Changes in behavior

This section provides a brief description of the behavior changes introduced in this release.

Table 3. Behavior changes for UCC SMF and cnSGWc, Release 2026.04.1

Description	Behavior changes
Support for the complete QCI range in Charging Actions for predefined rules [CSCwx78154]	**Previous Behaviour**: Charging Actions configured with QCI values greater than 127 could not be processed correctly. This could prevent the associated Charging Actions and rulebase configurations from taking effect, resulting in sessions using the default rulebase. **New Behaviour**: SMF now support QCI values from 0 to 255 in Charging Actions referenced by predefined rules. Charging Actions with QCI values greater than 127 are now processed successfully, allowing the associated predefined rules and rulebases to take effect. **Customer Impact**: Customers can configure and use the complete QCI range (0–255) in Charging Actions associated with predefined rules without encountering configuration processing failures or unintended fallback to the default rulebase.

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 4. Resolved issues for UCC SMF and cnSGWc, Release 2026.04.1

Bug ID	Description
CSCwx78154	SMF sends incorrect rulebase in PFCP message.

Open issues

There are no open bugs in this specific software release.

Compatibility

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

Table 5. Compatibility information for UCC SMF and cnSGWc, Release 2026.04.1

Product	Supported Release
Ultra Cloud Core SMI	2026.04.1.10
Ultra Cloud CDL	2026.04.1
Ultra Cloud Core UPF	2026.04.0
Ultra Cloud cnSGWc	2026.04.1

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Supported software packages

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

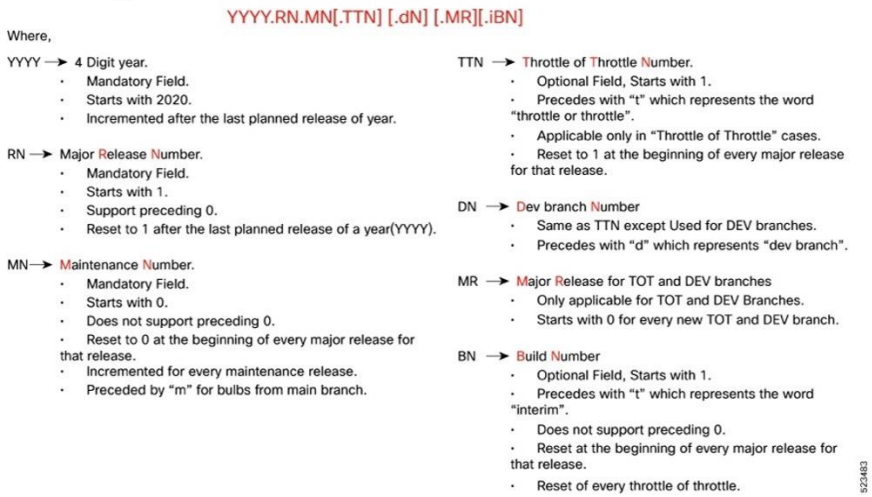
Table 6. Software packages for UCC SMF and cnSGWc, Release 2026.04.1

Software Package	Description	Release
ccg-2026.04.1.SPA.tgz	The SMF and cnSGWc offline release signature package. This package contains the SMF deployment software, NED package, as well as the release signature, certificate, and verification information.	2026.04.1
ncs-6.4.15-ccg-nc-1.1.2026.04.1.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.	6.4.15
ncs-6.1.14-ccg-nc-1.1.2026.04.1.tar.gz		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**



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.

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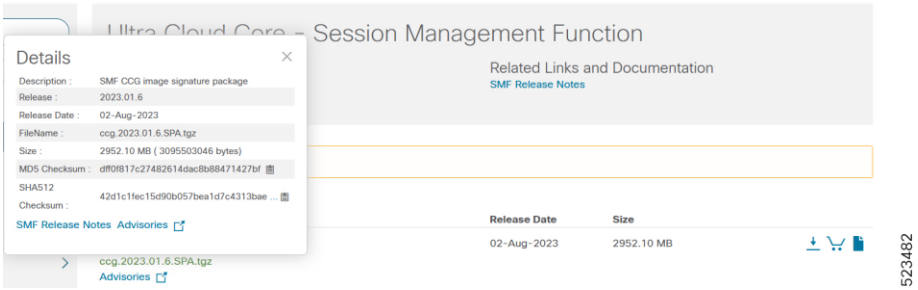
Figure 2. **Sample of converged core gateway software image**



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: `> 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

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.

Related resources

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

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Table 8. Related resources and additional information

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

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