



# Release Notes for UCC 5G SMF and cnSGWc, Release 2026.03.4



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# Ultra Cloud Core - Session Management and Serving Gateway Function, Release 2026.03.4

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).

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 2026.03.4

| 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

There are no new software features introduced in this release.

## Changes in behavior

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

**Table 2.** Behavior changes for UCC SMF and cnSGWc, Release 2026.03.4

| Description                                                          | Behavior changes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HPLMN S-NSSAI propagation in roaming 4G-to-5G handovers [CSCww64995] | <p><b>Previous Behavior:</b> During a roaming 4G-to-5G handover where SMF acted as a vSMF, the S-NSSAI returned by the hSMF in the N16 PduSessionCreatedData was neither stored nor propagated. Consequently, the N11 SM Context Created response sent to the AMF contained an empty or incorrect sNssai, leading to inconsistent slice information for the session.</p> <p><b>New Behavior:</b> SMF now extracts the S-NSSAI from the N16 create response and stores it as the HPLMN S-NSSAI. This value is then used to populate the sNssai field in the N11 create response sent to the AMF during the handover. This ensures compliance with 3GPP TS 29.502. If no HPLMN S-NSSAI is received, the system falls back to the previous behavior of using the existing sNssai.</p> <p><b>Customer Impact:</b> This change ensures that the AMF receives accurate slice information for roaming 4G-to-5G handover sessions. This restores slice consistency across network functions and ensures smoother handover continuity without requiring any configuration changes.</p> |

## 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 SMF and cnSGWc, Release 2026.03.4

| Bug ID                     | Description                                                  |
|----------------------------|--------------------------------------------------------------|
| <a href="#">CSCww64995</a> | vSMF-hplmnssai not sent in the n1n2 message during 4G to 5G. |

## Open issues

There are no open issues 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 4.** Compatibility information for UCC SMF and cnSGWc, Release 2026.03.4

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

| Product            | Supported Release |
|--------------------|-------------------|
| Ultra Cloud cnSGWc | 2026.03.4         |

## Supported software packages

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

**Table 5.** Software packages for UCC SMF and cnSGWc, Release 2026.03.4

| Software Package                            | Description                                                                                                                                                                                        | Release   |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| ccg-2026.03.4.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. | 2026.03.4 |
| ncs-6.4.8.3-ccg-nc-1.1.2026.03.4.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-ccg-nc-1.1.2026.03.4.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.RN.MN[.TTN] [.dN] [.MR][.iBN]                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                  |
| YYYY → 4 Digit year. <ul style="list-style-type: none"> <li>• Mandatory Field.</li> <li>• Starts with 2020.</li> <li>• Incremented after the last planned release of year.</li> </ul>                                                                                                                                                                         | TTN → Throttle of Throttle Number. <ul style="list-style-type: none"> <li>• Optional Field, Starts with 1.</li> <li>• Precedes with "t" which represents the word "throttle or throttle".</li> <li>• Applicable only in "Throttle of Throttle" cases.</li> <li>• Reset to 1 at the beginning of every major release for that release.</li> </ul> |
| RN → Major Release Number. <ul style="list-style-type: none"> <li>• Mandatory Field.</li> <li>• Starts with 1.</li> <li>• Support preceding 0.</li> <li>• Reset to 1 after the last planned release of a year(YYYY).</li> </ul>                                                                                                                               | DN → Dev branch Number <ul style="list-style-type: none"> <li>• Same as TTN except Used for DEV branches.</li> <li>• Precedes with "d" which represents "dev branch".</li> </ul>                                                                                                                                                                 |
| MN → Maintenance Number. <ul style="list-style-type: none"> <li>• Mandatory Field.</li> <li>• Starts with 0.</li> <li>• Does not support preceding 0.</li> <li>• Reset to 0 at the beginning of every major release for that release.</li> <li>• Incremented for every maintenance release.</li> <li>• Preceded by "m" for bulbs from main branch.</li> </ul> | MR → Major Release for TOT and DEV branches <ul style="list-style-type: none"> <li>• Only applicable for TOT and DEV Branches.</li> <li>• Starts with 0 for every new TOT and DEV branch.</li> </ul>                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                               | BN → Build Number <ul style="list-style-type: none"> <li>• Optional Field, Starts with 1.</li> <li>• Precedes with "t" which represents the word "interim".</li> <li>• Does not support preceding 0.</li> <li>• Reset at the beginning of every major release for that release.</li> <li>• Reset of every throttle of throttle.</li> </ul>       |

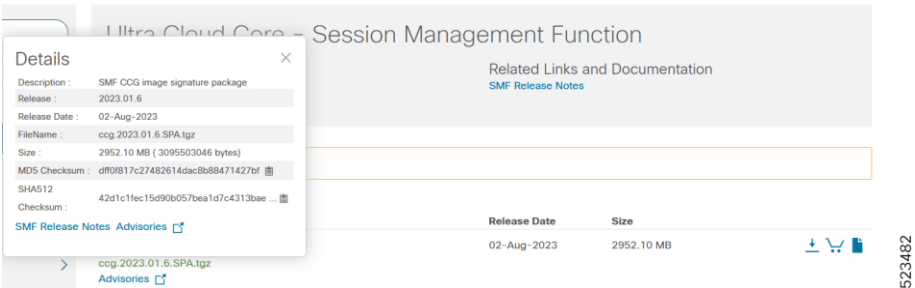
The appropriate version number field increments after a version has been released. The new version numbering format is a contiguous sequential number that represents incremental changes between releases. This format facilitates identifying the changes between releases when using Bug Search Tool to research 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



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 6. Checksum calculations per operating system

| Operating System  | SHA512 checksum calculation command examples                                                                                                           |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Microsoft Windows | Open a command line window and type the following command:<br><br>> certutil.exe -hashfile <filename.extension> SHA512                                 |
| Apple MAC         | Open a terminal window and type the following command:<br><br>\$ shasum -a 512 <filename.extension>                                                    |
| Linux             | Open a terminal window and type the following command:<br><br>\$ sha512sum <filename.extension><br><br>OR<br><br>\$ 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.

**Table 7.** Related resources and additional information

| Resource                                   | Link                                                    |
|--------------------------------------------|---------------------------------------------------------|
| SMF documentation                          | <a href="#">Session Management Function</a>             |
| cnSGWc documentation                       | <a href="#">Serving Gateway Function</a>                |
| SMI documentation                          | <a href="#">Subscriber Microservices Infrastructure</a> |
| UPF documentation                          | <a href="#">User Plane Function</a>                     |
| Service request and additional information | <a href="#">Cisco Support</a>                           |

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