



Release Notes for UCC 5G NRF, Release 2026.01.0

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Ultra Cloud Core – Network Repository Function, Release 2026.01.0

The Network Repository Function (NRF) serves as a centralized repository for all 5G network functions (NFs), enabling NF service registration, discovery, and management within the operator network. It allows NFs to identify and discover appropriate services, supports NF discovery requests, and provides information about available NF instances.

NRF facilitates key operations such as registration, heartbeat, update, deregistration, and subscription to notifications for NF profile changes. It also supports multiple base URLs for redundancy and provides statistics for monitoring NRF-related activities.

This functionality ensures efficient service discovery and management across network functions like AMF, UDM, PCF, SMF, and others, enhancing overall network operation and reliability.

This Release Note identifies changes and issues related to the software release of NRF.

For documentation related to NRF, contact your Cisco account representative.

New software features

The following NRF services are supported in this release:

- Nnrf_NFManagement
 - NFRegister
 - NFUpdate
 - NF Heart-Beat
 - NFDeregister
 - NFStatusSubscribe
 - NFStatusNotify
 - NFListRetrievl
- Nnrf_NFDiscovery Service
 - NFDiscove
 - NFDiscove with locality

Resolved issues

There are no resolved issues in this release.

Open issues

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

Note: This software release may contain open bugs first identified in other releases. To see additional information, click the bug ID to access the [Cisco Bug Search Tool](#).

Table 1. Open issues for Ultra Cloud Core – Network Repository Function, Release 2026.01.0

Bug ID	Description
CSCwt02822	Subscription/NFUpdated Failures with Result code 404 observed with smi-i08 and NRF TP build i72

Compatibility

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

Table 2. Compatibility information for UCC NRF, Release 2026.01.0

Product	Supported Release
Ultra Cloud Core SMI	2026.01.1.08
Ultra Cloud CDL	2.1.0

Supported software packages

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

Table 3. Software packages for UCC NRF, Release 2026.01.0

Software Package	Version
nrf.2026.01.0.SPA.tgz	2026.01.0

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

YYYY.RN.MN[.TTN] [.dN] [.MR][.iBN]

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.

TTN → 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 "t" 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.

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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 NRF software image

Ultra Cloud Core - Network Repository Function

Release 2099.01.m0.i9 BETA

Related Links and Documentation
- No related links or documentation -

File Information	Release Date	Size
NRF offline signature package nrf.2099.01.m0.i9.SPA.tgz	29-Oct-2025	2323.01 MB

Details

Description :	NRF offline signature package
Release :	2099.01.m0.i9
Release Date :	29-Oct-2025
FileName :	nrf.2099.01.m0.i9.SPA.tgz
Size :	2323.01 MB (2435848359 bytes)
MD5 Checksum :	bcbce05ad3a2c80715f867d5b8a5154b
SHA512 Checksum :	d94c78181567be41da43c1aa17a81733 ...

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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 4. SHA512 checksum calculation commands by 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>

<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

NRF 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

The following table provides key resources and links to the essential documentation and support information for the UCC NRF and Subscriber Microservices Infrastructure (SMI).

Table 5. Related resources and additional information

Resource	Link
SMI documentation	Subscriber Microservices Infrastructure
Service Request and Additional information	Cisco Support

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