



Release Notes for UCC 5G PCF, Release 2025.04.1

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Ultra Cloud Core - Policy Control Function, Release 2025.04.1

This Release Notes identifies changes and issues related to the release of Ultra Cloud Core Policy Control Function (PCF).

Release lifecycle milestones

This table provides EoL milestones for Cisco UCC PCF software:

Table 1. EoL milestone information for Ultra Cloud Core - Policy Control Function

Milestone	Date
First Customer Ship (FCS)	31-Oct-2025
End of Life (EoL)	31-Oct-2025
End of Software Maintenance (EoSM)	01-May-2027
End of Vulnerability and Security Support (EoVSS)	01-May-2027
Last Date of Support (LDoS)	30-Apr-2028

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

There are no behavior changes introduced in this 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 2. Resolved issues for Ultra Cloud Core - Policy Control Function, Release 2025.04.1

Bug ID	Description
CSCwr39806	N7 update failure from SMF with unsuccessful QoS value due to missing ARP parameters.
CSCwr88736	Error while package reload with PCF NED for 6.4.8.1/6.1.14

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 PCF software.

Table 3. Compatibility information for Ultra Cloud Core – Policy Control Function, Release 2025.04.1

Product	Supported Release
Ultra Cloud Core SMI	2025.04.1.16
Ultra Cloud CDL	1.12.3

Supported software packages

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

Table 4. Software packages for Ultra Cloud Core – Policy Control Function, Release 2025.04.1

Software package	Description	Release
pcf.2025.04.1.SPA.tgz	The PCF offline release signature package. This package contains the PCF deployment software, NED package, as well as the release signature, certificate, and verification information.	2025.04.1
ncs-6.4.8.1-cisco-pcf-nc-1.1.2025.04.0.tar.gz	The NETCONF NED package. This package includes all the yang files that are used for NF configuration.	6.4.8.1
ncs-6.1.14-cisco-pcf-nc-1.1.2025.04.0.tar.gz	The NETCONF NED package. This package includes all the yang files that are used for NF configuration.	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

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 "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 PCF Software Image

Details

Description : PCF offline signature package

Release : 2023.03.0

Release Date : 25-Jul-2023

FileName : pcf.2023.03.0.SPA.tgz

Size : 3904.95 MB (4094632015 bytes)

MDS Checksum : 2779f419ae07781f5f371854b378e54d

SHA512 Checksum : 698f646f8931d00c1a88506c087fc079 ...

PCF Release Notes Advisories

Policy Control Function

Related Links and Documentation

PCF Release Notes

Release Date	Size
25-Jul-2023	3904.95 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 5. Checksum Calculations per Operating System

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

PCF 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 PCF and SMI.

Table 6. Related resources and additional information

Resource	Link
PCF documentation	Policy Control Function
SMI documentation	Subscriber Microservices Infrastructure
Service request and additional information	Cisco Support

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