

Release Notes for the Ultra Cloud Core Policy Control Function, Version 2024.03.0

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Ultra Cloud Core Policy Control Fuction

Introduction

This Release Notes identifies changes and issues related to this software release.

Release Lifecycle Milestones

Release Lifecycle Milestone	Milestone	Date
First Customer Ship	FCS	31-Jul-2024
End of Life	EoL	31-Jul-2024
End of Software Maintenance	EoSM	29-Jan-2026
End of Vulnerability and Security Support	EoVSS	29-Jan-2026
Last Date of Support	LDoS	31-Jan-2027

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.

Release Package Version Information

Software Packages	Version
pcf.2024.03.0.SPA.tgz	2024.03.0
NED Package	ncs-6.1.11-cisco-pcf-nc-1.1.tar.gz
NSO Version	6.1.11.2

Descriptions for the various packages provided with this release are available in the Release Package Descriptions section.

Verified Compatibility

Products	Version
Ultra Cloud Core SMI	2024.03.1.12

Products	Version
Ultra Cloud Core CDL	1.11.8.1

Related Documentation

For the complete list of documentation available for this release, go to https://www.cisco.com/c/en/us/support/wireless/ultra-cloud-core-policy-control-function/series.html

Installation and Upgrade Notes

This Release Note does not contain general installation and upgrade instructions. Refer to the existing installation documentation for specific installation and upgrade considerations.

Software Integrity Verification

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.



At the bottom, you will find the SHA512 checksum. If you do not see the whole checksum, you can expand it by pressing "..." at the end.

To validate the information, calculate a SHA512 checksum using the information in Table 1 and verify that it matches either the one provided on the software download page.

To calculate a SHA512 checksum on your local desktop, refer to the following table.

Table 1: 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	

Operating System	SHA512 checksum calculation command examples
Linux	Open a terminal window and type the following command:
	\$ sha512sum filename.extension
	OR
	\$ shasum -a 512 filename.extension

NOTES:

filename is the name of the file.

extension is the file extension (for example, .zip or .tgz).

Certificate Validation

PCF 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.

Open Bugs for this Release

There are no open bugs in this release.

Resolved Bugs for this Release

The following table lists the known bugs that are resolved in this specific software release.



Note

This software release may contain bug fixes first introduced in other releases. Additional information for all resolved bugs for this release are available in the Cisco Bug Search Tool.

Bug ID	Headline	Behavior Change
CSCwj39532	PCF should send ldap query to USD based on Dummy_RAR response	No
CSCwj88340	EPS Fallback feature not negotiating as per 3gpp specification	No
CSCwk05980	PCF - N1N2 Message callback uri is picking up N7 remote-ip instead of AMF IP (n15)	No
CSCwk07344	Rating group not populating in the n7_notify when configured with 5g attributes in PB	1

Operator Notes

Cloud Native Product Version Numbering System

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

Versioning: Format & Field Description

YYYY.RN.MN[.TTN] [.dN] [.MR][.iBN] Where, YYYY → 4 Digit year. TTN -> Throttle of Throttle Number. Mandatory Field. · Optional Field, Starts with 1. Starts with 2020. Precedes with "t" which represents the word "throttle or throttle". Incremented after the last planned release of year. Applicable only in "Throttle of Throttle" cases. RN -> Major Release Number. Reset to 1 at the beginning of every major release for that release. Mandatory Field. Starts with 1. DN -> Dev branch Number Support preceding 0. · Same as TTN except Used for DEV branches. Reset to 1 after the last planned release of a year(YYYY). Precedes with "d" which represents "dev branch". MN→ Maintenance Number. MR \longrightarrow Major Release for TOT and DEV branches Mandatory Field. Only applicable for TOT and DEV Branches. Starts with 0. Starts with 0 for every new TOT and DEV branch. Does not support preceding 0. Reset to 0 at the beginning of every major release for BN → Build Number Incremented for every maintenance release. Optional Field, Starts with 1. Preceded by "m" for bulbs from main branch. Precedes with "t" which represents the word Does not support preceding 0. Reset at the beginning of every major release for

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.

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Release Package Descriptions

The following table provides descriptions for the packages that are available with this release.

Table 2: Release Package Information

Software Packages	Description
pcf. <version>.SPA.tgz</version>	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.
ncs- <nso_version>-pcf-nc-<version>.tar.gz</version></nso_version>	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.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, refer to https://www.cisco.com/c/en/us/support/index.html.