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Release Notes for the Ultra Cloud Core Policy Control Function Version 2023.03.0

First Published: July 26, 2023

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-2023
End of Life	EoL	31-Jul-2023
End of Software Maintenance	EoSM	28-Jan-2025
End of Vulnerability and Security Support	EoVSS	28-Jan-2025
Last Date of Support	LDoS	31-Jan-2026

Release Package Version Information

Software Packages	Version
pcf.2023.03.0.SPA.tgz	2023.03.0
NED Package	ncs-6.1-pcf-nc-2023.03.0
NSO Version	6.1

Descriptions for the software packages provided with this release are available in the <u>Release Package Descriptions</u> section.

Verified Compatibility

Products	Version
Ultra Cloud Core SMI	2023.03.1
Ultra Cloud Core CDL	1.11.4

For information on the Ultra Cloud Core SMI release, refer to the corresponding SMI Release Notes available at:

Cisco Systems, Inc. www.cisco.com

https://www.cisco.com/c/en/us/support/wireless/ultra-cloud-core-subscriber-microservices-infrastructure/series.html

Installation and Upgrade Notes

This Release Notes 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.

Details	×	Deleted Links	and Documentation	
Description -	SMF office seguriture package 3098.01.0			
	29-Jan-2020	< No related trice	or documentation -	
Fieldere:	wrif 3090,7,0,3PA/ga			
Nov 1	2414-07 MB (2531857998 bytes)			
MD5 Checkman	· Pheliciki/Scifesheeteliitae/ITT#1			
		Release Date	Size	
SM	offine signature package 3098-1.0.SPA.tgz	29-Jan-2020	2414.57 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 <u>Table 1</u> and verify that it matches either the one provided on the software download page.

To calculate a SHA512 checksum on your local desktop please see the table below.

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</extension></filename></pre>	
Apple MAC	Open a terminal window and type the following command	
	\$ shasum -a 512 <filename>.<extension></extension></filename>	
Linux	Open a terminal window and type the following command	
	\$ sha512sum <filename>.<extension></extension></filename>	
	Or	
	\$ shasum -a 512 <filename>.<extension></extension></filename>	

Table 1 – Checksum Calculations per Operating System

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Open Bugs for this Release

NOTES:

<filename> is the name of the file.

<extension> is the file extension (e.g. .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. For information and instructions on how to validate the certificates, refer to the .README file packaged with the software.

Open Bugs for this Release

The following table lists the known bugs that remain open in this specific software release.

Bug ID	Headline
<u>CSCwe87529</u>	mTLS Issue - Certificate Unknown

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 <u>Cisco Bug Search Tool</u>.

Bug ID	Headline	Behavior Change
CSCwf14094	Feature negotiation issues on N7	No
<u>CSCwf30717</u>	MCPTT Feature negotiation and priority allocation not working as expected	No

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.

Obtaining Documentation and Submitting a Service Request

Versioning: Format & Field Description

Where,	ANNA REPAIRED.
YYYY → 4 Digit year. Mandatory Field Starts with 2020. Incremented after the last planned release of year. RN → Major Release Number.	 TTN → Throttle of Throttle Number. Captional Fields, Starts with 1. Proceedes with "# which represents the word "throttle of throttle". Applicative only in "Throttle of Throttle" causes. Reset to 1 at the beginning of every major intease.
 Mandatory Field 	for that release.
Starts with 1 Support preceding 0 Reset to 1 after the last planned release of a year(YYYY)	DN → DEV branch Number. Same as TTN, except Used for DEV branches Precedes with "d" which represents "dev branch".
MN → Maintenance Number.	MR -> Major Release for TOT and DEV branches
Mechanizary Finish Starts with D, Dates not support preceding D,	Only applicable for TOT and DEV Branches. Starts with 0 for every new TOT and DEV branch .
 Reset to 0 at the beginning of every major necess for that release. 	BN → Build Number
 Inclusion Inclusion Preceded by 'm' for builds from main triancti. 	 Optional Field, Starts with T, Precedes with "#" which represents the word "intoxin". Does not support preceding 0, Reset at the biogrammy of every major measure for that release. Reset for every throthe of throthe.

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.

Release Package Descriptions

Table 2 lists provide descriptions for the software packages that are available with this release.

Table 2 -	Release	Package	Information
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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.

Related Documentation

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

Related Documentation

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