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Release Notes for the Ultra Cloud Core Redundancy Configuration Manager Version 2023.02.0

First Published: April 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	28-Apr-2023
End of Life	EoL	28-Apr-2023
End of Software Maintenance	EoSM	31-Oct-2024
End of Vulnerability and Security Support	EoVSS	31-Oct-2024
Last Date of Support	LDoS	31-Oct-2025

These milestones and the intervals between them are defined in the <u>Cisco Ultra Cloud Core (UCC) Software Release Lifecycle Product</u> <u>Bulletin</u> available on cisco.com.

Release Package Version Information

Software Packages	Version
rcm.2023.02.0.SPA.tgz	2023.02.0
NED package	ncs-5.6.1-rcm-nc-2023.02.0
NSO	5.6.1

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

Verified Compatibility

Products	Version
Ultra Cloud Core SMI	2023.02.1.07

Cisco Systems, Inc. www.cisco.com

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Related Documentation

Products	Version
Ultra Cloud CDL	1.11.1
Ultra Cloud Core UPF	2023.02.0

Related Documentation

For a complete list of documentation available for this release, go to: <u>https://www.cisco.com/c/en/us/support/wireless/ultra-cloud-core-user-plane-function/series.html</u>

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.

Details Description :	$$\mathbf{V}$$ UPF VPC-SI binary software image signature package			and Documentation	
Release :	3099.01.0				
Release Date :	29-Jan-2020				
FileName :	upf.3099.01.0.SPA.tgz				
Size :	169.69 MB (177935223 bytes)				
MD5 Checksum :	644adad53e397f7657f493e576bcd338 📋				
			Release Date	Size	
UPF VPC-SI bi upf.3099.01.0.S	inary software image signature package PA.tgz		29-Jan-2020	169.69 MB	<u>+</u>
	UPF VPC-SI	binary software in	nage signature package		
UPF trusted VF upf_T.3099.01.0	PC-SI binary software image signature pa 0.SPA.tgz	ackage	29-Jan-2020	164.05 MB	<u>+</u>

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>		

Table 1 – Checksum Calculations per Operating System

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Operating System	SHA512 checksum calculation command examples
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>
NOTES:	
<filename> is the na</filename>	me of the file.
<extension>is the f</extension>	ile extension (e.gzip 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.

MD5 Checksum Details

Software Packages	MD5 Checksum
rcm.2023.02.0.SPA.tgz	758b97f0ec6522c6efe88ee3aa44446a

Certificate Validation

UPF 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.

Open Bugs for this Release

There are no open bugs in this specific software release.

Resolved Bugs for this Release

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

Bug ID	Headline
<u>CSCwe50901</u>	configmgr crash observed

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Operator Notes

Cloud Native Product Version Numbering System

Operator Notes

Cloud Native Product Version Numbering System

Versioning: Format & Field Description

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

Where YYYY → 4 Digit year.

TTN → Throttle of Throttle Number.

- 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 builds from main branch.

- "throttle of throttle"
- · Applicable only in "Throttle of Throttle" cases.

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 "" which represents the word
- "interim".
- Does not support preceding 0.
- · Reset at the beginning of every major release for
- that release · Reset for every throttle of throttle.

Release Package Descriptions

Table 2 provides descriptions for the packages that are available with this release.

Table 2 - Release	e Package	Information
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Software Packages	Description
companion-vpc- <staros_version>.zip.SPA.tar.gz</staros_version>	Contains files pertaining to VPC, including SNMP MIBs, RADIUS dictionaries, ORBEM clients, etc. These files pertain to both trusted and non-trusted build variants. The VPC companion package also includes the release signature file, a verification script, the x.509 certificate, and a README file containing information on how to use the script to validate the certificate.
qvpc-si- <staros_version>.bin.SPA.tar.gz</staros_version>	The UPF release signature package. This package contains the VPC-SI deployment software for the UPF as well as the release signature, certificate, and verification information. Files within this package are nested under a top-level folder pertaining to the corresponding StarOS build.

· Optional Field, Starts with 1.

Precedes with "t" which represents the word

- · Reset to 1 at the beginning of every major release for that release.

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Obtaining Documentation and Submitting a Service Request

Software Packages	Description
qvpc-si- <staros_version>.qcow2.zip.SPA.tar.gz</staros_version>	The UPF release signature package. This package contains the VPC-SI deployment software for the UPF as well as the release signature, certificate, and verification information.
	Files within this package are nested under a top-level folder pertaining to the corresponding StarOS build.
qvpc-si_T- <staros_version>.bin.SPA.tar.gz</staros_version>	The trusted UPF release signature package. This package contains the VPC-SI deployment software for the UPF as well as the release, signature, certificate, and verification information.
	Files within this package are nested under a top-level folder pertaining to the corresponding StarOS build.
qvpc-si_T- <staros_version>.qcow2.zip.SPA.tar.gz</staros_version>	The trusted UPF release signature package. This package contains the VPC-SI deployment software for the UPF as well as the release, signature, certificate, and verification information.
	Files within this package are nested under a top-level folder pertaining to the corresponding StarOS build.
ncs- <nso_version>-rcm-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 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.

Obtaining Documentation and Submitting a Service Request

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