Release Notes for the Ultra Cloud Serving Gateway Control Plane Function Version 2021.02.1

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Introduction

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

Release Package Version Information

Software Packages	Version
ccg.2021.02.1.SPA.tgz	2021.02.1.i309

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

NOTE: The ccg.*<version>*.SPA.tgz software package is common to both the cnSGWc and SMF 5G Network Functions (NF). The deployment and configuration procedure determines the NF deployment.

Verified Compatibility

Products	Version
Ultra Cloud Core SMI	2020.02.2.33
Ultra Cloud Core SMF	2021.02.1.i309

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-serving-gateway-function/products-installation-and-configuration-guides-list.html

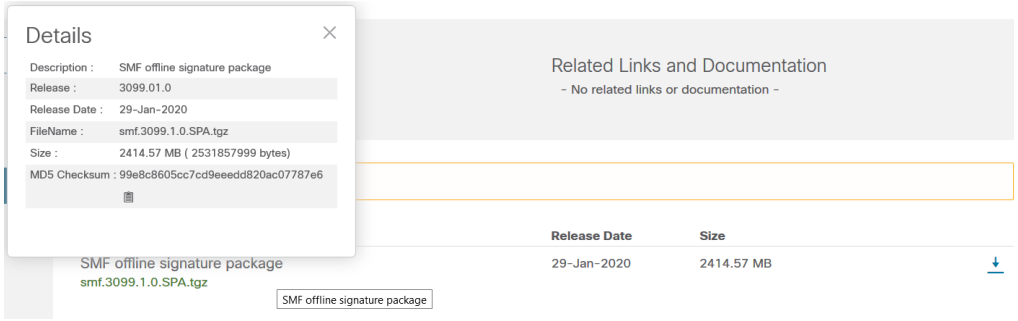
Installation and Upgrade Notes

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.



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 Table 1 and verify that it matches the one provided on the software download page.

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

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>

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 (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

The 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 were found in this software release, and which remain open.

NOTE: This software release may contain open bugs first identified in other releases. Additional information for all open bugs for this release are available in the Cisco Bug Search Tool.

Bug ID	Headline
CSCvy53622	[cnSGW] Intermittent issue - eMPS dscp marking happening incorrect
CSCvy58517	cnSGW-sequence number value is not updating properly at the time of multi-bearer deactivation
CSCvy59735	[cn-sgw-infra]- Crash when MBRequest is received less number of bearer context - BGIPC improvement
CSCvy67254	udp-proxy pod restart seen during 4M call model scale test (CDL-503)
CSCvy87234	DBCFI recevied from PGW with cause CNF at msg/bearer level not deleting bearer at cnSGW
CSCvy87237	DBCmd with multiple EBI with few non-existing ebi is rejected at cnSGW
CSCvy87695	[SVI-CNSGW] panic observed at SxSession GenericMsg DeleteBearerProcedure
CSCvy90380	sgw-service pod restarts observed on the SMF with build - ccg.2021.02.1.i280
CSCvy95372	[cn-SGW]: Extra Bearer in MBC processed incorrectly

Resolved Bugs for this Release

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

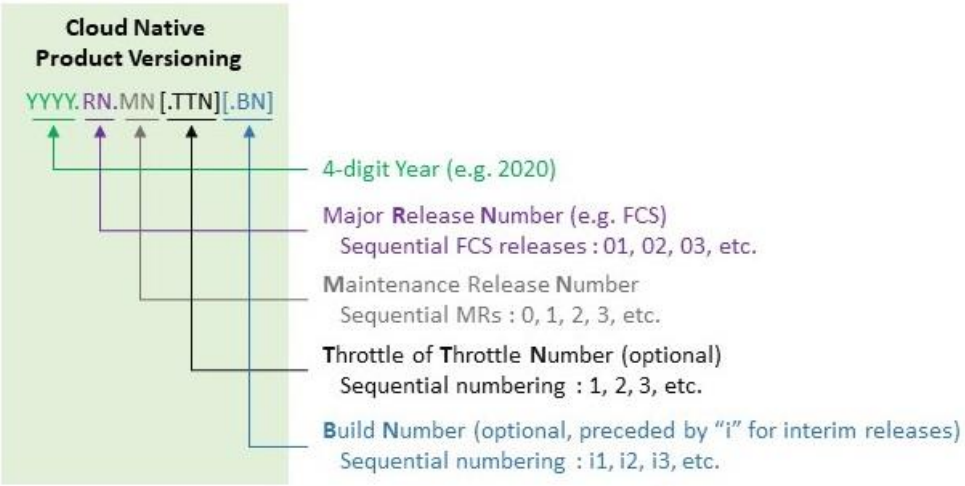
NOTE: This software release may contain bug fixes first introduced in other releases. Additional information for all resolved bugs for this release are available in the Cisco Bug Search Tool.

Bug ID	Headline	Behavior Change
CSCvx98303	[cnSGW] : LCI/OCI sent from UP in SxEstabResp is not processed by protocol-pod	No
CSCvy40559	Non Unique key in show sub all CLI must have imsi, imei and msisdn	Yes
CSCVy45518	sgw-service pod crashes seen when scaling call-model to 1M subs	No

Bug ID	Headline	Behavior Change
CSCvy49770	cnSGW- ProtoToPFCPLibSessionModReq-encodeSessionModReqUsingGolangEncoder-ie.EncodeCreateURRRIE	No
CSCvy69577	[cnSGW] overload-exclude profile to support exclusion based on only APN-NI & APN-NI+OI both	Yes
CSCvy81103	MBR-CBR-UBR collision	No
CSCvy81108	Some samples are not aligned with the time axis in dashlets when selected period is 1w or longer	No
CSCvy81356	Panic seen on gtpc-ep pod	No
CSCvy84553	Panic when cause is missing in delete bearer command failure indication msg	No
CSCvy85889	DDN Ack waiting and HO CSReq (OI=1), Handover CSReq not processing	No
CSCvy90971	cnSGW- should not send 5GSIWKI flag to SMF	No

Cloud Native Product Version Numbering System

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



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 packages that are available with this release.

Table 2 - Release Package Information

Software Packages	Description
ccg.<version>.SPA.tgz	The offline release signature package. This package contains the deployment software as well as the release signature, certificate, and verification information.

NOTE: The ccg.*<version>*.SPA.tgz software package is common to both the cnSGWc and SMF 5G Network Functions (NF). The deployment and configuration procedure determines the NF deployment.

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.