Release Notes for the Ultra Cloud Core Policy Control Function Version 2020.02.2

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Introduction

This Release Notes identifies changes and issues related to this software release. This release is the next release after 2020.02.1.65.

Release Package Version Information

Software Packages	Version
pcf.2020.02.2.SPA.tgz	2020.02.2

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	2020.01.1
Ultra Cloud Core SMF	2020.02.3
Ultra Cloud Core UPF	2020.02.4

Enhancements and Behavior Changes

Support for Configuring the Interface-level Request Timeout

The PCF now allows you to configure the inbound and outbound request timeout values for the REST endpoints. With this enhancement, you can add or modify the timeout period at the interface level.

Previous Behavior: In the earlier releases, the response timeout period was configured with the default value. As a result, PCF timed out while waiting for responses from SMF such as N7_notify request, which took longer than the default timeout period.

New Behavior: In this release, new timeout configuration options are provided in the existing REST endpoint configuration CLI.

To configure REST endpoint, use the following configuration in the Policy Ops Center console:

config

rest-endpoint

interface [n7 | n15 | n25 | n28 | nnrf]

ip *interface_ip_address*

port *interface_port_number*

ips *ip_address*

port *port_number*

replicas *replica_count*

inbound-request-timeout-ms *inbound_timeout*

outbound-request-timeout-ms *outbound_timeout*

repository *repository_address*

tracing-service-name *tracing_service*

uri-scheme *uri_scheme*

end

NOTES:

- **inbound-request-timeout-ms** *inbound_timeout* – Configures the timeout period after which the inbound request expires. You can configure a single *inbound_timeout* value for all the configured interfaces or for a single interface.
- **outbound-request-timeout-ms** *outbound_timeout* – Configures the timeout period after which the outbound request expires. You can configure a single *outbound_timeout* value for all the configured interfaces or for a single interface.

Related Documentation

For a 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/tsd-products-support-series-home.html

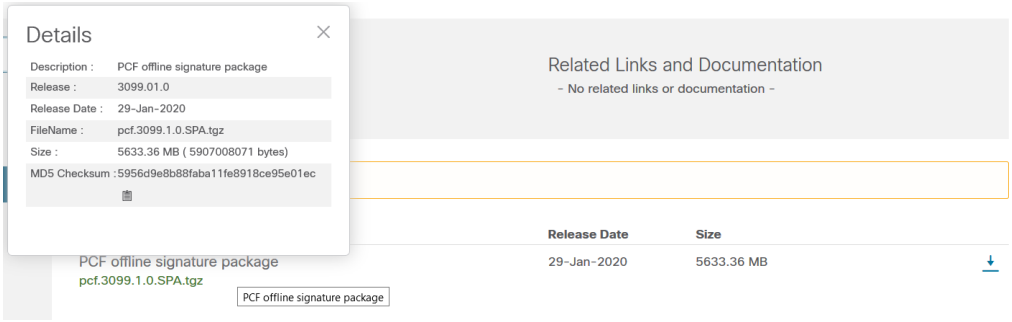
Installation and Upgrade Notes

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 either 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

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.

Open Bugs for this Release

There are no open bugs in this software release.

Resolved Bugs for this Release

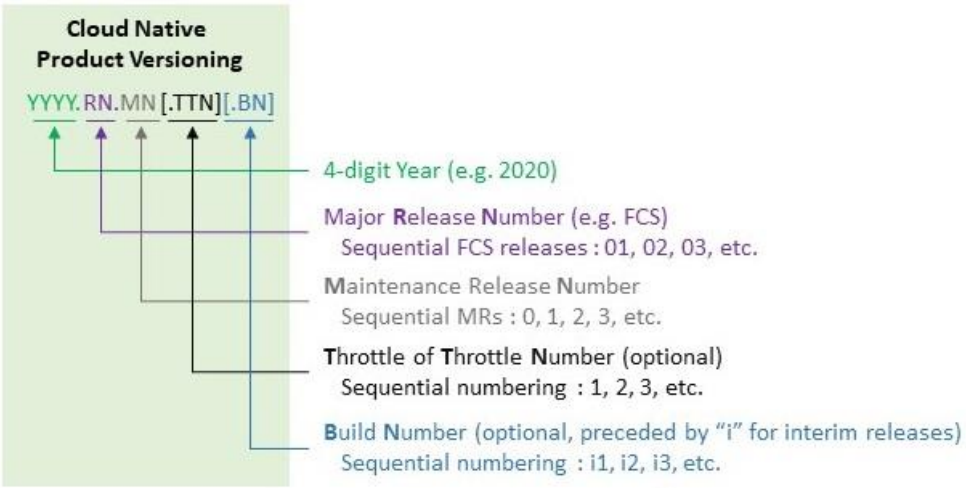
The following table lists the bugs that were resolved in this software release.

Bug ID	Headline
CSCvu40159	The SVN pods enter the evicted state on experiencing low resource and disk pressure.
CSCvu67160	Support for configuring interface-level timeout period for the outbound requests.

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.



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

Table 2 – Release Package Information

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

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.