Oracle® Communications Cloud Native Core Release Notice





Oracle Communications Cloud Native Core Release Notice, Release 2.3.2

F40111-14

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What's New In This Guide

This section introduces the documentation updates in Oracle Communications Cloud Native Core (CNC) network functions for Release 2.3.2.

Cosmetic Changes

Performed cosmetic changes.

New and Updated Sections for SCP Release 1.10.3

The following sections are updated for SCP Release 1.10.3:

- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list

New and Updated Sections for SCP Release 1.10.2

The following sections are updated for SCP Release 1.10.2:

- Service Communication Proxy (SCP): Feature enhancement for SCP 1.10.2 is added.
- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list

New and Updated Sections for CNC Policy Release 1.10.5

The following sections are updated for CNC Policy Release 1.10.5:

- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list

New and Updated Sections for CNC Policy Release 1.10.4

The following sections are updated for CNC Policy Release 1.10.4:

- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list

New and Updated Sections for CNC Policy Release 1.10.3

The following sections are updated for CNC Policy Release 1.10.3:

- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list

New and Updated Sections for BSF Release 1.7.2

The following sections are updated for BSF Release 1.7.2:

- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list



New and Updated Sections for SCP Release 1.10.1

The following sections are updated for SCP Release 1.10.1:

- Service Communication Proxy (SCP): Feature enhancement for SCP 1.10.1 is added.
- Media Pack: Added Media pack details

New and Updated Sections for CNC Console Release 1.5.2

The following sections are updated for CNC Console Release 1.5.2:

- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list
- Customer Known Bug List: Added customer known bugs list

New and Updated Sections for NRF Release 1.10.2

The following sections are updated for NRF Release 1.10.2:

- Network Repository Function (NRF): Feature enhancement for NRF 1.10.2 is added.
- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list

New and Updated Sections for BSF Release 1.7.1

The following sections are updated for BSF Release 1.7.1:

- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list
- Customer Known Bug List: Added customer known bugs list

New and Updated Sections for CNC UDR Release 1.10.1

The following sections are updated for CNC UDR Release 1.10.1:

- Unified Data Repository (UDR): Feature enhancement for UDR 1.10.1 is added.
- Media Pack: Added Media pack details
- Customer Known Bug List: Added customer known bugs list

New and Updated Sections for CNC Policy Release 1.10.2

The following sections are updated for CNC Policy Release 1.10.2:

- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list

New and Updated Sections for SCP Release 1.10.0

The following sections are updated for SCP Release 1.10.0:

- Service Communication Proxy (SCP): Feature enhancement for SCP 1.10.0 is added.
- Media Pack: Added Media pack details



- Resolved Bug List: Added resolved bugs list
- Customer Known Bug List: Added customer known bugs list

New and Updated Sections for CNC Policy Release 1.10.1

The following sections are updated for CNC Policy Release 1.10.1:

- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list

New and Updated Sections for CNC Console Release 1.5.1

The following sections are updated for CNC Console Release 1.5.1:

- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list
- Customer Known Bug List: Added customer known bugs list

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New and Updated Sections for BSF Release 1.7.0

The following sections are updated for BSF Release 1.7.0:

- Binding Support Function (BSF): Feature enhancement for BSF 1.7.0 is added.
- Media Pack: Added Media pack details
- · Resolved Bug List: Added resolved bugs list
- Customer Known Bug List: Added customer known bugs list

New and Updated Sections for CNCC Release 1.5.0

The following sections are updated for CNCC Release 1.5.0:

- Cloud Native Core Console: Feature enhancement for CNCC 1.5.0 is added.
- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list
- Customer Known Bug List: Added customer known bugs list

New and Updated Sections for CNC Policy Release 1.10.0

The following sections are updated for CNC Policy Release 1.10.0:

- Cloud Native Core Policy (CNC Policy): Added feature enhancement for CNC Policy 1.10.0
- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list
- Customer Known Bug List: Added customer known bugs list

New and Updated Sections for NRF Release 1.10.0

The following sections are updated for NRF Release 1.10.0:

 Network Repository Function (NRF): Feature enhancement for NRF 1.10.0 is added.



- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list
- Customer Known Bug List: Added customer known bugs list

New and Updated Sections for UDR Release 1.10.0

The following sections are updated for UDR Release 1.10.0:

- Unified Data Repository (UDR): Feature enhancement for UDR 1.10.0 is added.
- Media Pack: Added Media pack details
- Resolved Bug List: Added resolved bugs list
- Customer Known Bug List: Added customer known bugs list



1

Introduction

This Release Notice includes feature descriptions, and media and documentation pack contents. This document includes listings for both the resolved and known bugs for this release. Directions for accessing key Oracles sites and services are explained in MOS. Release Notices are included in the documentation pack made available with every software release.



Feature Descriptions

This chapter provides a summary of each feature released in Cloud Native features release 2.3.2.

Binding Support Function (BSF)

Binding Support Function (BSF) 1.7.0 has below enhancements:

- **Upgrade Enhancements**: The in-service upgrade feature in Binding Support Function allows operators to upgrade BSF by incrementally updating service instances with new ones with zero downtime. This feature also provides a way for operators to rollback to the previous release version, if required. For more information about the upgrade procedure, see *Cloud Native Core Binding Support Function Installation and Upgrade Guide*.
- **Support for Debug Tools**: Debug Tool provides third party troubleshooting tools for debugging the runtime issues for lab and production environment. For information on the usage of this tool, see *Cloud Native Core Binding Support Function Installation and Upgrade Guide*.
- Support for Session Retry and Alternate Route Service: In previous releases, BSF was being configured with primary and secondary NRF statically and limiting to a specific number. Starting with CNC BSF Release 1.7.0, session retry enables the alternate recovery mechanisms to mitigate impact of any unavailable resource. It provides flexible and configurable retry behavior for selected interfaces. To support this behavior, SRV Records have been added. This would add more options for NF FQDN to be configured and maintained dynamically at the DNS Server, which can be further selected by BSF, when there is an NF failure. For more information on configurable parameters for alternate route service (DNS-SRV), see Oracle Communications Cloud Native Core Binding Support Function Installation Guide.
- Consistent Logging Level Support: BSF now supports configuration of consistent log level for different BSF services through Cloud Native Core Console. For more information about configuring through CNC console, see Configuring Logging Level section in Oracle Communications Cloud Native Core Binding Support Function User's Guide.
- Support for Bulk Import/Export: BSF now supports bulk import and export of
 configuration data using CNC Console and REST APIs. For more information,
 refer to Oracle Communications Cloud Native Core Binding Support Function
 User's Guide for configuring bulk import/export using CNC Console and Oracle
 Communications Cloud Native Core Binding Support Function REST API
 Specification Guide for configuring bulk import/export using REST APIs.

Cloud Native Environment (CNE)

Cloud Native Environment (CNE) 1.7.x provides the following major features in this release:

- Metric Type Inclusion: Metric Type is included for each metric in DBTier User Guide.
- CNDBTier DR Procedures: DBTier Disaster Recovery Guide includes DR procedures for CNDBTier Environment as well.

Cloud Native Diameter Routing Agent (CnDRA)

There are no new features or updates implemented in CNC 2.3.2 release.

Cloud Native Core Console

Cloud-Native Core Console (CNCC) 1.5.0 has been updated with the following enhancements::

 CNCC IAM preinstall hook: This feature removes dependency on user to manually load sql file to create and populated tables.



Prehook is used for loading IAM sql file automatically.

- Enabled OSO Common Service cards:
 - Enabled OSO services cards under CNCC Common Services menu
 - Prometheus and Alertmanager cards can be enabled
 - SSO SAML integration is supported.



Only authentication is supported, authorization is not supported.

- Enabled CNE Common Service cards:
 - Enabled CNE services cards under CNCC Common Services menu
 - Prometheus, Alertmanager, Grafana, Kibana, and Jaeger cards can be enabled
 - SSO SAML integration is supported.



Only authentication is supported, authorization is not supported.

- Support for performance metrics for CNC Console Phase 2
 - Support for Web and SNMP Alerting Mechanism
- CNCC support for viewing SCP VS and SE
 - Routing Rules GUI screen is developed



- Support the latest version of NFs: CNCC is compatible with latest version of supported NFs.
 - SCP 1.10.0
 - NRF 1.10.0
 - UDR 1.10.0
 - Policy 1.10.0
 - BSF 1.7.0

CNC NF Data Collector

There are no new features or updates implemented in CNC 2.3.2 release.

Cloud Native Core Policy (CNC Policy)

Oracle Communications Cloud Native Core Policy (CNC Policy) 1.10.0 has below enhancements:

- PCF Interface Timer Handling Enhancements Phase1: Policy Solution now allows you to set request timeout values for UDR, CHF, SMF, AF, and BSF messages in applications/interfaces using timer profile. CNC Policy apply the specific timeout profile when sending request to external NFs, the external NFs includes UDR/CHF/NRF/BSF and CNC Policy updates the appropriate metrics in case of such request timeout. For information on managing timer profile, see Managing Timer Profile section in Oracle Communications Cloud Native Core Policy User's Guide.
- Intermediate Spending Limits using policy action: With this feature, operators
 can use Policy actions and condition blocks to request the status of policy
 counters available at the CHF, and enable intermediate spending limit request. For
 more information, see Public category section in Oracle Communications Cloud
 Native Core Policy Design Guide.
- Binding registration on BSF as a policy action in PCF: With this feature, a
 new parameter is introduced in Binding Configuration for Session Management
 service, which allows operators to configure binding operation mode as
 synchronous or asynchronous. In addition, policy action blocks have been added
 to set binding support mode for individual policies. For more information, see
 Oracle Communications Cloud Native Core Policy User's Guide and Oracle
 Communications Cloud Native Core Policy Design Guide.
- UDR Subscriber Delete Resource Support: With this feature, the PCF call flow
 has been updated to support terminating an active subscriber session by the
 deployed policy when the subscriber resources are deleted on UDR. For more
 information, see UDR Subscriber Delete Resource Support section in Oracle
 Communications Cloud Native Core Policy User's Guide.
- Support for sdfHandl IE: The feature supports the PCF capability to send sdfhandl parameter that is meant to specify the treatment of online PCC rules before SMF receives the response from CHF. To implement this feature, a new parameter, sdfhandl, has been added in Charging data model and then send it on some condition. For information on condition and blocks, see *Oracle Communications Cloud Native Core Policy Design Guide*. For information on the parameter, see *Oracle Communications Cloud Native Core Policy User's Guide*.



- Support for Debug Tool: Debug Tool provides third party troubleshooting tools for debugging the runtime issues for lab and production environment. For information on the usage of this tool, see Cloud Native Core Binding Support Function Installation and Upgrade Guide.
- AM Policy procedures Enhancement: With this enhancement, new parameters have been added to configure Access and Mobility Service. For more information, see Oracle Communications Cloud Native Core Policy User's Guide.
- REST API Support for Session Viewer configuration: With this enhancement, you can configure the Session viewer by using REST APIs also. For more details, see Oracle Communications Cloud Native Core Policy REST API Guide.
- WaitForChf VSA provisioning over N7: With this enhancement, using the Set custom attribute block, operators may configure and send 'VendorSpecific waitForChf 'attribute to SMF in PolicyDecision via CNC Policy. For more information on block, see Oracle Communications Cloud Native Core Policy Design Guide.

Inter-Working Function (IWF)

There are no new features or updates implemented in CNC 2.3.2 release.

Service Communication Proxy (SCP)

SCP ATS 1.10.2 has been updated with the following enhancement:

 ATS Stub resources are increased to 0.5 CPU and 0.5G Memory. For more information, refer to Oracle Communications Cloud Native Core Automated Test Suite (ATS) Guide.

SCP ATS 1.10.1 has been updated with the following enhancement:

 New summary report when re-run is enabled. The Pipeline status is updated as per re-run results. For more information, refer to Oracle Communications Cloud Native Core Automated Test Suite (ATS) Guide.

SCP 1.10.0 has been updated with the following enhancement:

- Integration with Routing Layer V2 to remove dependency from Istio/Envoy. Refer to SCP Installation Guide and SCP User's Guide for more information.
- Removing SCP's Dependency on CRDs: SCP Notification is enhanced to remove CRD and include it in DB. Refer to SCP Installation Guide for more information.
- Metrics Enhancements (NF Names in all applicable Metrics as applicable):
 Producer FQDN is added to metric dimensions. Refer to SCP User's Guide
 for more information. What's New in This Guide section of SCP User's Guide
 mentions all the updated list of metrics.
- CNCC support for viewing SCP Virtual Services and service entries. Refer to SCP User's Guide for more information.

Security Edge Proxy Protection (SEPP)

There are no new features or updates implemented in CNC 2.3.2 release.

Network Exposure Function (NEF)

There are no new features or updates implemented in CNC 2.3.2 release.

Network Repository Function (NRF)

OCNRF 1.10.2 has been updated with the following enhancements:

 Istio-Proxy container readiness check for all micro-services/hooks. For more information, refer to Oracle Communications Cloud Native Core NRF Installation and Upgrade Guide.

NRF ATS 1.10.2 has been updated with the following enhancements:

 New summary report when re-run is enabled.
 For more information, refer to Oracle Communications Cloud Native Core Automated Test Suite (ATS) Guide.

OCNRF 1.10.0 has been updated with the following enhancements:

- Support for configuring Validity Period Per NF Type for Discovery response: With this feature, OCNRF allows operator to configure different validity period for different NF Types. For more information, refer to Oracle Communications Cloud Native Core NRF User's Guide.
- Support for fetching NF Status and Subscription Status using non-Signaling APIs: Provides secure, non-SBI based APIs to retrieve status, profile and other key information that can be useful for an operator while debugging. For more information, refer to Oracle Communications Cloud Native Core NRF User's Guide.
- Support for R16 NF Set: Starting with this release:
 - NFs are allowed to register with NFSet in the NFProfile
 - NFs are allowed to subscribe based on NFSet condition
 - NFs are allowed to be discovered based on NFSet query parameter
 - NFs are allowed to request Access Token based on NFSet

For more information, refer to *Oracle Communications Cloud Native Core NRF Installation and Upgrade Guide*.

- Support for KId:
 - Adding K-Id header in Access Token response
 - Configuring up to 25 Key pairs using configuration REST APIs
 - Dynamically changing Key Pairs for signing Access Tokens

For more information, refer to Oracle Communications Cloud Native Core NRF Installation and Upgrade Guide.

 Support for SCP Registering with NRF as 3gPP Rel 16 NFType: OCNRF now allows SCP to register as a 3GPP 29510 Release 16.3.0 defined NF Type. It also allows Consumer NFs to subscribe, discover, and request Access Token for SCP as 3gpp defined NF Type.



Network Slice Selection Function (NSSF)

There are no new features or updates implemented in CNC 2.3.2 release.

Unified Data Management (UDM)

There are no new features or updates implemented in CNC 2.3.2 release.

Unified Data Repository (UDR)

UDR 1.10.1 has been updated with the following enhancements:

- Fixes for upgrade issues from 1.9.1 to 1.10.1: For more information, refer to
 Oracle Communications Cloud Native United Data Repository Installation and
 Upgrade Guide and Oracle Communications Cloud Native United Data Repository
 User's Guide.
- Istio-readiness check for all micro services/hooks: For more information, refer
 to Oracle Communications Cloud Native United Data Repository Installation and
 Upgrade Guide, Oracle Communications Cloud Native United Data Repository
 User's Guide and Oracle Communications Cloud Native Provisioning Gateway
 Guide.

UDR-SLF-ATS 1.10.1 has been updated with the following enhancements:

- Removed complete segment down scenarios for ProvGw
- Enhanced smart timers for pod up and pod down scenarios
- New summary report when re-run is enabled
- Fixes for issues reported by customer

For more information, refer to Oracle® Communications 5G Automated Testing Suite Guide.

UDR 1.10.0 has been updated with the following enhancements:

- SOAP/XML interface enhancements on ProvGw: For more information on SOAP/XML interface enhancements on Provisioning Gateway, refer Oracle Communications Cloud Native Provisioning Gateway Guide.
- Support for custom entities and fields on ProvGw: For more information on custom entities and field, refer Oracle Communications Cloud Native Provisioning Gateway Interface Specification Guide.
- Support for configurable API version in NFProfile: UDR supports configuration
 of suffix of apiFullVersion which is part of NFService of the NF profile. For more
 information, refer to Oracle Communications Cloud Native United Data Repository
 User's Guide.
- Supports alternate route service for NRF in NRF-client: Using Alternate Route Service, UDR NRF client supports multiple NRF endpoint configurations. It helps to determine the DNS SRV records of NRF FQDNs. For more information, refer to Oracle Communications Cloud Native United Data Repository User's Guide.



- Supports disabling Oauth2 signature validation: UDR allows you not to enable Oauth2 signature validation. For more information, refer to Oracle Communications Cloud Native United Data Repository User's Guide.
- Supports Server header in the error responses: With the inclusion of server headers in the outgoing error responses, the HTTP client of UDR can determine the originator of HTTP error response. For more information, refer to Oracle Communications Cloud Native United Data Repository User's Guide.
- Integrated with SCP for egress notification traffic: UDR is integrated with SCP for egress traffic. The Egress Gateway of UDR can be configured with SCP configurations (FQDNs, retry modes, alternate route etc) and UDR routes its egress traffic of notifications via SCP. For more information on configuration parameters, refer to Oracle Communications Cloud Native United Data Repository User's Guide.
- Supports monitoring of Bulk Import on CNC Console: A new screen, 'Bulk Import Status' has been added to CNC Console that helps to monitor bulk import transaction executed via bulk import tool. For more information, refer to Oracle Communications Cloud Native United Data Repository User's Guide.



3

Media and Documentation

Oracle Communications software is available for electronic download on the Oracle Software Delivery Cloud (OSDC). Documentation is delivered electronically on the My Oracle Support (MOS). Both the software Media Pack and Documentation Pack are listed in this chapter.

Media Pack

This section lists the media package for Cloud Native Core 2.3.2. For downloading the package, refer to MOS.



This list is accurate at the time of release but is subject to change. See the Oracle software delivery website for the latest information.

Table 3-1 Media Pack Contents for Cloud Native Core 2.3.2

Description	Versions	ATS Test Cases Included	Upgrade	Compliance
Oracle Communications Cloud Native Core Automated Testing Suite (ATS)	1.5.1	NA	Supports fresh installation only	Compatible with: CNE 1.6.0 and CNE 1.7.0
Oracle Communications Cloud Native Core Automated Testing Suite (ATS)	1.5.0	NA	Supports fresh installation only	Compatible with: CNE 1.6.0 and CNE 1.7.0
Oracle Communications Cloud Native Core Binding Support Function (BSF)	1.7.2	Yes Note: Not applicable to: Support for Debug Tool Consistent Logging Level Support	Supports fresh installation and upgrade from 1.6.0 to 1.7.2 and 1.7.0 to 1.7.2 is also supported.	Compatible with: NRF 1.10.0 UDR 1.10.0 CNC Policy 1.10.0 CNDBTier 1.7.0 OSO 1.6.1 and 1.7.0 ASM 1.5.10 CNE 1.7.0 and CNE 1.6.0

Table 3-1 (Cont.) Media Pack Contents for Cloud Native Core 2.3.2

Description	Versions	ATS Test Cases Included	Upgrade	Compliance
Oracle Communications Cloud Native Core Binding Support Function (BSF)	1.7.1	Yes Note: Not applicable to: Support for Debug Tool Consistent Logging Level Support	Supports fresh installation and upgrade from 1.6.0 to 1.7.1 and 1.7.0 to 1.7.1 is also supported.	Compatible with: NRF 1.10.0 UDR 1.10.0 CNC Policy 1.10.0 CNDBTier 1.7.0 OSO 1.6.1 and 1.7.0 ASM 1.5.10 CNE 1.7.0 and CNE 1.6.0
Oracle Communications Cloud Native Core Binding Support Function (BSF)	1.7.0	Yes Note: Not applicable to: Support for Debug Tool Consistent Logging Level Support	Supports fresh installation only	Compatible with: NRF 1.10.0 UDR 1.10.0 CNC Policy 1.10.0 CNDBTier 1.7.0 OSO 1.6.1 and 1.7.0 ASM 1.5.10 CNE 1.7.0 and CNE 1.6.0
Oracle Communications Cloud Native Core Console (CNCC)	1.5.2	NA	Supports fresh installation only	Compatible with: SCP 1.10.0 NRF 1.10.0 UDR 1.10.0 Policy 1.10.2 BSF 1.7.0 CNDBTier 1.8.0 OSO 1.6.2 ASM 1.5.7- am3 and ASM 1.4.6- am9 CNE 1.7.1, CNE 1.6.0, and CNE 1.5.0



Table 3-1 (Cont.) Media Pack Contents for Cloud Native Core 2.3.2

Description	Versions	ATS Test Cases Included	Upgrade	Compliance
Oracle Communications Cloud Native Core Console (CNCC)	1.5.1	NA	Supports fresh installation only	Compatible with:
Oracle Communications Cloud Native Core Console (CNCC)	1.5.0	NA	Supports fresh installation only	Compatible with:
Oracle Communications Cloud Native Core Cloud Native Environment (CNE)	1.7.0	NA	Upgrade supported from OCCNE 1.5.0 to OCCNE 1.6.0. For more information, refer the CNE Upgrade Guide.	NA



Table 3-1 (Cont.) Media Pack Contents for Cloud Native Core 2.3.2

Description	Versions	ATS Test Cases Included	Upgrade	Compliance
Oracle Communications Cloud Native Core Policy (CNC Policy)	1.10.5	Yes Note: Not applicable to: Support for Debug Tool Session Viewer REST API support for GET and DELETE	CNC Policy 1.10.5 supports fresh installation as well as an upgrade from 1.9.x to 1.10.5 and 1.10.x to 1.10.5 is also supported. For more information on installation/ upgrading, see Oracle Communications Cloud Native Core Policy Installation and Upgrade Guide	Compatible with: NRF 1.10.0 UDR 1.10.0 BSF 1.7.0 CNDBTier 1.7.0 OSO 1.6.1 and 1.7.0 ASM 1.5.10 CNE 1.7.0 and CNE 1.6.0
Oracle Communications Cloud Native Core Policy (CNC Policy)	1.10.4	Yes Note: Not applicable to: Support for Debug Tool Session Viewer REST API support for GET and DELETE	CNC Policy 1.10.4 supports fresh installation as well as an upgrade from 1.9.x to 1.10.4 and 1.10.x to 1.10.4 is also supported. For more information on installation/ upgrading, see Oracle Communications Cloud Native Core Policy Installation and Upgrade Guide	Compatible with: NRF 1.10.0 UDR 1.10.0 BSF 1.7.0 CNDBTier 1.7.0 OSO 1.6.1 and 1.7.0 ASM 1.5.10 CNE 1.7.0 and CNE 1.6.0
Oracle Communications Cloud Native Core Policy (CNC Policy)	1.10.3	Yes Note: Not applicable to: Support for Debug Tool Session Viewer REST API support for GET and DELETE	CNC Policy 1.10.3 supports fresh installation as well as an upgrade from 1.9.x to 1.10.3 and 1.10.x to 1.10.3 is also supported. For more information on installation/ upgrading, see Oracle Communications Cloud Native Core Policy Installation and Upgrade Guide	Compatible with: NRF 1.10.0 UDR 1.10.0 BSF 1.7.0 CNDBTier 1.7.0 OSO 1.6.1 and 1.7.0 ASM 1.5.10 CNE 1.7.0 and CNE 1.6.0



Table 3-1 (Cont.) Media Pack Contents for Cloud Native Core 2.3.2

Description	Versions	ATS Test Cases Included	Upgrade	Compliance
Oracle Communications Cloud Native Core Policy (CNC Policy)	1.10.2	Yes Note: Not applicable to: Support for Debug Tool Session Viewer REST API support for GET and DELETE	CNC Policy 1.10.2 supports fresh installation as well as an upgrade from 1.9.x to 1.10.2 and 1.10.x to 1.10.2 is also supported. For more information on installation/ upgrading, see Oracle Communications Cloud Native Core Policy Installation and Upgrade Guide	Compatible with: NRF 1.10.0 UDR 1.10.0 BSF 1.7.0 CNDBTier 1.7.0 OSO 1.6.1 and 1.7.0 ASM 1.5.10 CNE 1.7.0 and CNE 1.6.0
Oracle Communications Cloud Native Core Policy (CNC Policy)	1.10.1	Yes Note: Not applicable to: Support for Debug Tool Session Viewer REST API support for GET and DELETE	CNC Policy 1.10.1 supports fresh installation as well as upgrade from 1.9.x and 1.10.0 to 1.10.1. For more information on installation/ upgrading, see Oracle Communications Cloud Native Core Policy Installation and Upgrade Guide	Compatible with: NRF 1.10.0 UDR 1.10.0 BSF 1.7.0 CNDBTier 1.7.0 OSO 1.6.1 and 1.7.0 ASM 1.5.10 CNE 1.7.0 and CNE 1.6.0
Oracle Communications Cloud Native Core Policy (CNC Policy)	1.10.0	Yes Note: Not applicable to: Support for Debug Tool Session Viewer REST API support for GET and DELETE	CNC Policy 1.10.0 supports fresh installation as well as upgrade from 1.9.x to 1.10.0. For more information on installation/ upgrading, see Oracle Communications Cloud Native Core Policy Installation and Upgrade Guide	Compatible with: NRF 1.10.0 UDR 1.10.0 BSF 1.7.0 CNDBTier 1.7.0 OSO 1.6.1 and 1.7.0 ASM 1.5.10 CNE 1.7.0 and CNE 1.6.0



Table 3-1 (Cont.) Media Pack Contents for Cloud Native Core 2.3.2

		I	I	
Description	Versions	ATS Test Cases Included	Upgrade	Compliance
Oracle Communications Cloud Native Core Diameter Routing Agent (CnDRA)	1.6.0	NA	Supports fresh installation only	NA
Oracle Communications Cloud Native Core Inter-Working Function (IWF)	1.5.0	NA	Supports fresh installation only	Compatible with: BSF 1.5.0 NRF 1.7.0 UDR 1.7.0 Compliant with 3GPP version 15.5
Oracle Communications Cloud Native Core Network Exposure Function (NEF)	1.2.0	NA	Supports fresh installation only	NA
Oracle Communications Cloud Native Core Network Repository Function (NRF)	1.10.2	Yes	ocnr 1.10.0 supports fresh installation as well as upgrade from 1.9.x to 1.10.2 and 1.10.0 to 1.10.2. For more information on installation/ upgrading, see Oracle Communications Cloud Native Core NRF Installation and Upgrade Guide.	Compatible with: UDR 1.10.0 CNDBTier 1.8.0.0.1 (with and without ASM) OSO 1.6.2 ASM 1.5.7- am3 and ASM 1.4.6- am8 CNE 1.7.0 and CNE 1.6.0 Network functions which are compliant with 3GPP Release: 29.510 v15.5 (September 2019) and 29.510 v16.3 Support for NFSet paramet er Support for SCP as NfType



Table 3-1 (Cont.) Media Pack Contents for Cloud Native Core 2.3.2

Description	Versions	ATS Test Cases Included	Upgrade	Compliance
Oracle Communications Cloud Native Core Network Repository Function (NRF)	1.10.0	Yes	OCNRF 1.10.0 supports fresh installation as well as upgrade from 1.9.x to 1.10.0. For more information on installation/ upgrading, see Oracle Communications Cloud Native Core NRF Installation and Upgrade Guide.	Compatible with: UDR 1.10.0 CNDBTier 1.8.0.0.1 (with and without ASM) OSO 1.6.2 ASM 1.5.7- am3 and ASM 1.4.6- am8 CNE 1.7.0 and CNE 1.6.0 Network functions which are compliant with 3GPP Release: 29.510 v15.5 (September 2019) and 29.510 v16.3 Support for NFSet paramet er Support for SCP as NfType
Oracle Communications Cloud Native Core Service Communications Proxy (SCP)	1.10.3	Yes	Supports fresh installation only	Compatible with CNE 1.5.0, CNE 1.6.0, CNE 1.7.0, OSO 1.6, CnDBTier 1.8.0 and ASM 1.5.7-am3
Oracle Communications Cloud Native Core Service Communications Proxy (SCP)	1.10.2	Yes	Supports fresh installation only	Compatible with CNE 1.5.0, CNE 1.6.0, CNE 1.7.0, OSO 1.6, CnDBTier 1.8.0 and ASM 1.5.7-am3



Table 3-1 (Cont.) Media Pack Contents for Cloud Native Core 2.3.2

Description	Versions	ATS Test Cases Included	Upgrade	Compliance
Oracle Communications Cloud Native Core Service Communications Proxy (SCP)	1.10.1	Yes	Supports fresh installation only	Compatible with CNE 1.5.0, CNE 1.6.0, CNE 1.7.0, OSO 1.6, CnDBTier 1.8.0 and ASM 1.5.7- am3
Oracle Communications Cloud Native Core Service Communications Proxy (SCP)	1.10.0	Yes	Supports fresh installation only	Compatible with CNE 1.5.0, CNE 1.6.0, CNE 1.7.0, OSO 1.6, CnDBTier 1.8.0 and ASM 1.5.7- am3
Oracle Communications Cloud Native Core Network Slice Selection Function (NSSF)	1.4.0	NA	Supports fresh installation only	Compatible with any NRF, AMF that supports 3GPP Release 15.5 Specs
Oracle Communications Cloud Native Core Security Edge Protection Policy (SEPP)	1.4.1	Yes Note: Not applicable to Logging, Alerts, and Metrics support.	Supports fresh installation as well as upgrade from 1.4.0 to 1.4.1. For more information on installation or upgrading, see Oracle Communications Cloud Native Core Security Edge Protection Proxy (SEPP) Installation Guide.	NA
Oracle Communications Cloud Native Core Unified Data Repository (UDR)	1.10.1	Yes	UDR 1.10.1 supports fresh installation as well as upgrade from 1.9.1 to 1.10.1. For more information on installation/ upgrading, see Cloud Native United Data Repository Installation and Upgrade Guide.	Compatible with CNE 1.6.0 and CNE 1.7.0 NRF 1.10.0 CnDBTier 1.6.0.0.0 and 1.8.0.0.1 (with ASM) OSO 1.6.x ASM 1.5.7- am3



Table 3-1 (Cont.) Media Pack Contents for Cloud Native Core 2.3.2

Description	Versions	ATS Test Cases Included	Upgrade	Compliance
Oracle Communications Cloud Native Core Unified Data Repository (UDR)	1.10.0	Yes	UDR 1.10.0 supports fresh installation as well as upgrade from 1.9.0 to 1.10.0. For more information on installation/ upgrading, see Cloud Native United Data Repository Installation and Upgrade Guide.	
Oracle Communications Cloud Native Core Unified Data Management (UDM)	1.1.0	NA	Supports fresh installation only	NA

Documentation Pack

All documents are available for download from the MOS site.



4

Resolved and Known Bugs

This chapter lists the resolved and known bugs for Cloud Native Core release 2.3.2.

These lists are distributed to customers with a new software release at the time of General Availability (GA) and are updated for each maintenance release.

Severity Definitions

Service requests for supported Oracle programs may be submitted by you online through Oracle's web-based customer support systems or by telephone. The service request severity level is selected by you and Oracle and should be based on the severity definitions specified below.

Severity 1

Your production use of the supported programs is stopped or so severely impacted that you cannot reasonably continue work. You experience a complete loss of service. The operation is mission critical to the business and the situation is an emergency. A Severity 1 service request has one or more of the following characteristics:

- Data corrupted.
- A critical documented function is not available.
- System hangs indefinitely, causing unacceptable or indefinite delays for resources or response.
- System crashes, and crashes repeatedly after restart attempts.

Reasonable efforts will be made to respond to Severity 1 service requests within one hour. For response efforts associated with Oracle Communications Network Software Premier Support and Oracle Communications Network Software Support & Sustaining Support, please see the Oracle Communications Network Premier & Sustaining Support and Oracle Communications Network Software Support & Sustaining Support sections above.

Except as otherwise specified, Oracle provides 24 hour support for Severity 1 service requests for supported programs (OSS will work 24x7 until the issue is resolved) when you remain actively engaged with OSS working toward resolution of your Severity 1 service request. You must provide OSS with a contact during this 24x7 period, either on site or by phone, to assist with data gathering, testing, and applying fixes. You are requested to propose this severity classification with great care, so that valid Severity 1 situations obtain the necessary resource allocation from Oracle.

Severity 2

You experience a severe loss of service. Important features are unavailable with no acceptable workaround; however, operations can continue in a restricted fashion.



Severity 3

You experience a minor loss of service. The impact is an inconvenience, which may require a workaround to restore functionality.

Severity 4

You request information, an enhancement, or documentation clarification regarding your software but there is no impact on the operation of the software. You experience no loss of service. The result does not impede the operation of a system.

Resolved Bug List

The following Resolved Bugs tables list the bugs that are resolved in Cloud Native Release 2.3.2.

Table 4-1 BSF 1.7.2 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32558568	3	1.7.0	BSF 1.7.0 installation fails due to errors in nrf-discovery-pre-install

Table 4-2 BSF 1.7.1 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32505502	3	1.6.0	Connection TimeOut issue while ATS getting executed
32505504	3	1.6.0	ATS Step to have dynamic timer for Intermittent Slow or long POD restart time
32509004	3	1.6.0	Service discovery interval changed to 15 seconds
32509012	3	1.6.0	DiamConnector shall Reuse the existing connection object
32509016	3	1.6.0	BSF ATS - DWR shall not be counted as a message

Table 4-3 CNC Console 1.5.2 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32529680	Minor	1.5.0	The attributes of 'Create Node' block are duplicated on reopen of the saved policy



Table 4-4 CNC Console 1.5.1 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32365095	Minor	1.5.0	SCP Routing Rules (VS) GUI is not loading when API data size is big
32419530	Minor	1.5.0	cncc-iam-pre-install hook compute-resources error
32437693	Minor	1.5.0	Unable to enable ASM for pre- install hook
32437693	Minor	1.5.0	CNCC hook-delete-policy for helm test

Table 4-5 CNC Console 1.5.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32175056	Minor	1.4.0	CSAR Descriptor_Version Value should match software version
32191317	Minor	1.4.0	Resource annotations still require escaping double-quotes
32230851	Minor	1.4.0	OCUDR CNCC does not accept "-' in GET operation
32283165	Minor	1.4.0	CNCC IAM REST API Documentation

Table 4-6 CNC Policy 1.10.5 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32623104	2	1.10.0	When PCF receive chf notification with new policy counter id, pcf cann't trigger N7 notification to SMF
32622996	3	1.10.0	"Scheduler unavailable" error in Ingress Gateway
32623016	3	1.10.0	Diameter pod is abnormal when computer host is down when running performance test
32623047	3	1.10.0	Diameter gateway pod abnormal after computer host down
32623088	3	1.10.0	END_USER_PRIVATE (4) not supported printed in diameter pod after host reboot
32623111	3	1.10.0	Priority in BSF profile dosen't work in 1.10.0



Table 4-7 CNC Policy 1.10.4 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32597091	3	1.10.0	diam-gw- realm based routing to external should be removed
32597107	3	1.10.0	Priority in CHF profile dosen't work in 1.10.0
32597122	3	1.10.0	HA issue : SM trying to connect to unavailable DB and leading to call failures
32597134	3	1.10.0	Duplicate Auth-Application-Id AVP is coming in AAA from PCF

Table 4-8 CNC Policy 1.10.3 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32558184	3	1.10.1	PCF 1.10.0 installation fails due to errors in nrf-discovery-pre-install

Table 4-9 CNC Policy 1.10.2 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32505498	3	1.9.1	The attributes of 'Create Node' block are duplicated on reopen of the saved policy
32505500	3	1.9.1	Config client socket timeouts cause SM response
32505501	3	1.9.1	LDAP data is coming in common rather than custom
32505502	3	1.9.1	Connection TimeOut issue while ATS getting executed
32505504	3	1.9.1	ATS Step to have dynamic timer for Intermittent Slow or long POD restart time

Table 4-10 CNC Policy 1.10.1 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32463928	2	1.9.1	SM Service getting hanged with 10 K TPS
32463954	3	1.10.0	Audit Service getting hanged and thus not auditing the records
32463958	3	1.9.1	In multiple PCRF-Core pods setup, different PCRF-Core pod produced the duplicated key to persisten USERS info to cnDBtier



Table 4-10 (Cont.) CNC Policy 1.10.1 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32463971	3	1.9.1	"udrconnector.apiroot" environment variable is missing during helm upgrade from 1.9.1 to 1.10.0
32463986	3	1.9.1	VzW PCF: UDR connector and CHF connector oracle-cnc-service in DOWN state in Prometheus server
32463990	3	1.9.1	The attributes of 'Create Node' block are duplicated on reopen of the saved policy
32464011	3	1.10.0	New Feature TC "UDR_Subscriber_Del_Resource_S upport" Failing
32464015	3	1.9.1	VzW PCF (ME Lab): hook-delete- policy for helm test

Table 4-11 CNC Policy 1.10.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32377131	3	1.9.0	Policy 1.9.0- pre-install pods cannot create db connection with ASM istio-proxy (possible race condition)
32146961	3	1.9.0	PCF:1.9.0:PDS timeout happens for first call (ATS case is failing)
32377108	3	1.9.0	PCF appinfo core_services should not include disabled services

Table 4-12 NRF 1.10.2 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32518128	4	1.9.0	NRF's Egress-Gateway is not picking the configured Port from the Global section of Value.yaml.

Table 4-13 NRF 1.10.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32127692	3	1.1.0	NRF not accepting Discovery Query with SUPI, if the value is not having "imsi-" or "nai-" prefix



Table 4-13 (Cont.) NRF 1.10.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32127694	4	1.1.0	tacRangeList attribute in TaiRange is mandatory, if it is missed OCNRF not reporting bad request rather 500 response is returned
32365366	4	1.5.0	NRF should check if OAuth is enabled while generating access token for slf
32365375	4	1.1.0	Document Metric type for each metric of NRF in User Guide
32365391	3	1.7.0	Egress gateway container is sending HTTPS to sidecar container (deployment with Service Mesh)
32365408	4	1.9.0	Load is not present in NFprofile, Patch to update load attribute leading to 500 internal error instead it shall be 409

Table 4-14 SCP 1.10.3 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32792888	2	1.10.2	SCP worker is encoding already encoded query parameters to egress requests URI
32792904	3	1.10.2	Tuning of SCP-worker GC memory parameters

Table 4-15 SCP 1.10.2 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32653951	2	1.9.1	AuditMaster thread is getting killed during DB exception
32653962	3	1.10.0	SCP worker is crashing in handling inter-SCP case with location uri with relative URI
32653968	3	1.10.0	Log message to be included with exception stacktrace
32653111	3	1.10.0	Update InterSCP Audit testcase to avoid race condition between notification and audit
32653117	3	1.10.0	Update Default SCP response timeout and Increase stub resources in ATS



Table 4-15 (Cont.) SCP 1.10.2 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32653129	3	1.10.0	Enhance ATS to retry on stub connection Errors
32680387	3	1.10.1	SCP worker throws recursive call error in log with more response time for incoming messages

Table 4-16 SCP 1.10.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32463899	3	1.9.0	Audit worker thread getting killed
32468332	3	1.9.0	Rerun of scenarios not executing prerequisite and cleanup scenarios
32468451	3	1.9.0	Stub Creation wait time is made configurable
32468463	3	1.9.0	Stub to use Cluster IP instead of node port
32468473	3	1.9.0	Ability to configure SCP signaling port in ATS
32468490	3	1.9.0	Fixed Issues with Regression cases
32468510	3	1.9.0	Update PV Name in helm charts for SCP ATS
32468635	4	1.8.0	Correct "CNC Console Interface" to remove Help from top ribbon.
32468662	4	1.8.0	Update Documentation with SCP Metric categories
32468677	4	1.8.0	Remove PodSecurityPolicy kind from IG under SCP deployment section
32468711	4	1.8.0	Update the vnfd.yaml file for SCP to not put NF name - in the product_name value

Table 4-17 UDR 1.10.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32121237	3	1.9.0	On demand migration issue for PATCH operation on UDR Rel. 1.8.4
32122140	3	1.9.0	Subscriber Entity field issues on ProvGw from SOAP/XML



Customer Known Bug List

Customer Known Bugs tables list the known bugs and associated Customer Impact Statements. This information is provided for information purposes only.

Table 4-18 BSF 1.7.1 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
32509747	3	1.6.0	BSF ATS: BSF ATS shall not restart Diameter GW to establish the connection towards the peer (PCF simulator)	No impact. This is ATS only change, but deletion of the pod is a costly operation and shall be avoided, if not necessary.

Table 4-19 BSF 1.7.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
32377395	3	1.7.0	occnp_diam_conn_backe nd measurement is incremented for {appType="pcf",} for bsf	Metrics name will not be correct and will create confusion
32377432	3	1.7.0	Session viewer doesn't display bindings if SNSSAI is not used	User needs to provide SNSSAI information

Table 4-20 CNC Console 1.5.2 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
31355530	4	1.1.0	CNCC IAM - Unable to remove assigned User Role	User will be able to add roles but user will not be able to remove the assigned roles.
32151129	4	1.4.0	Policy bulk import screen progress bar is not getting updated	User will be able to perform Policy bulk import, but the progress bar will not get updated.
32291223	4	1.5.0	CNE Common Services type should be ClusterIP when accessed via CNCC	User will be able to access CNE common services directly using LoadBalancer IP.
32291243	4	1.5.0	OCCNE 1.7.0 Kibana API prefix is not working	User will not be able to access Kibana via Cloud Native Core Console.



Table 4-20 (Cont.) CNC Console 1.5.2 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
32291262	4	1.5.0	Disable Grafana login screen	Upon Cloud Native Core Console SAML SSO login, user will need to enter grafana password again while accessing Grafana via Cloud Native Core Console.

Table 4-21 CNC Console 1.5.1 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
31355530	4	1.1.0	CNCC IAM - Unable to remove assigned User Role	User will be able to add roles but user will not be able to remove the assigned roles.
32151129	4	1.4.0	Policy bulk import screen progress bar is not getting updated	User will be able to perform Policy bulk import, but the progress bar will not get updated.
32291223	4	1.5.0	CNE Common Services type should be ClusterIP when accessed via CNCC	User will be able to access CNE common services directly using LoadBalancer IP.
32291243	4	1.5.0	OCCNE 1.7.0 Kibana API prefix is not working	User will not be able to access Kibana via Cloud Native Core Console.
32291262	4	1.5.0	Disable Grafana login screen	Upon Cloud Native Core Console SAML SSO login, user will need to enter grafana password again while accessing Grafana via Cloud Native Core Console.



Table 4-22 CNC Console 1.5.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
31355530	4	1.1.0	CNCC IAM - Unable to remove assigned User Role	User will be able to add roles but user will not be able to remove the assigned roles.
32151129	4	1.4.0	Policy bulk import screen progress bar is not getting updated	User will be able to perform Policy bulk import, but the progress bar will not get updated.
32291223	4	1.5.0	CNE Common Services type should be ClusterIP when accessed via CNCC	User will be able to access CNE common services directly using LoadBalancer IP.
32291243	4	1.5.0	OCCNE 1.7.0 Kibana API prefix is not working	User will not be able to access Kibana via Cloud Native Core Console.
32291262	4	1.5.0	Disable Grafana login screen	Upon Cloud Native Core Console SAML SSO login, user will need to enter grafana password again while accessing Grafana via Cloud Native Core Console.
32365095	4	1.5.0	SCP Routing Rules (VS) GUI is not loading when API data size is big	SCP Routing Rules (VS) GUI will not load when API data size is big.

Table 4-23 CNC Policy 1.10.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
32377199	3	1.8.0	PCF high latency after sm pods restarted (warmup) issue	After a pod will come up the first call will show latency because of the initialization.
32377213	3	1.8.0	Diameter connector to sm-service timer is hard coded to 2 sec	During the system initialization the first call from Diameter Connector towards SM Service will fail.



Table 4-23 (Cont.) CNC Policy 1.10.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
32377219	3	1.9.1	Occasional earlyEOF exceptions from jetty for connections towards PRE	Only visible in high performance run, policy will not be evaluated for that call.
32377228	3	1.9.0	Converged Mode: User- service is throwing topic state, data source and Profile not found errors at higher TPS	Only visible in high performance run, and when mocde is converged, call will fail.
32377241	3	1.10.0	PCIDs are not updated after PUT request when Retry profile is configured	Intermediate spending limit will not work if Retry profiles are configured.
32377250	3	1.10.0	PCRF-Core should request to delete subscriber info from Policy-ds when subscriber detach	Policy Data source will end up having stale subscriber information.
32377268	3	1.10.0	Update response has PRA installed during create	On update, extra PRA information is going towards AMF.
32388565	3	1.10.0	SM Service Memory Growth during ATS run	SM Service pod will restart once 1 GB of memory is reached (this is the minimum configuration that we propose for lab).
32388574	3	1.10.0	Audit Service getting hanged and thus not auditing the records	ATS test cases fail.
32388591	3	1.10.0	"udrconnector.apiroot" environment variable missing during helm upgrade from 1.9.1 to 1.10.0	Communication for GET message between policyds and udr-connector fails.
32388592	3	1.10.0	SM Service getting hanged with 10 K TPS	
32388606	3	1.10.0	Egress GW Internal Server Error while sending Notify Request (N7 Notification)	
32388607	3	1.10.0	PCF Session Binding Issue in SM Service (Null Pointer Exeception)	



Table 4-24 NRF 1.10.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
32365433	4	1.10.0	Invalid SupiRange is accepted during NFs Registering with NRF	Invalid SUPI Ranges will be accepted in NFProfile
32365721	4	1.10.0	Removal of load attribute is setting load attribute in NF Profile to 0. Instead it shall be removed from NF Profile.	Invalid Profile will be reported to subscribers.
32365728	3	1.10.0	OCNRF's Host scheme can't be changed to HTTPs	Customer cannot use HTTPs scheme in Location header/Via header or in getListRetrival request.
32365453	4	1.10.0	Invalid Identity Range is accepted during NFs Registering with NRF	Invalid Identity Ranges will be accepted in NFProfile

Table 4-25 SCP 1.10.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
30731782	Minor	1.2	Limit of VS size is limited to 1 Mb by etcd/k8s.	Impacts only if there are 100s of NFs with many service instances/NF.
				For now customer impact is minimal to no.
				Workaround : None.
				Note : This limitation is not present in SCP 1.10 onwards.
30731844	Minor	1.3	Processing time of NRF notifications increases if more profiles (>10) with more many service instances (more than 10/profile) are registered. increase observed is 2-3 seconds more than previous registered in case of new registration. Updates also increases with more number of registered profiles.	There may be delay in rule creation if profiles are large in numbers. Workaround: None.



Table 4-25 (Cont.) SCP 1.10.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
30731829	Minor	1.4	SCPC-Pilot is taking high CPU while applying updates if number of equivalent profiles/ ServiceInstances are exceeding 100	There may be delay in rule creation if profiles are large in numbers which can cause some call failures. Workaround: None.
				Note : This limitation is not present in SCP 1.10 onwards.

UDR 1.10.1 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact/WA
30774742	4	1.3.0	UDR is not validating the conditional attributes for UDM APIs.	No impact. UDM(consumer of UDM APIs) does not send conditional attributes to UDR
32377407	4	1.10.0	UDM SDM subscription PATCH giving Invalid data content instead of Schema validation failure	NA
32377325	4	1.10.0	subscription request fails with the error `Data field does not exist¿ for Custom APIs	NA
31877256	4	1.8.0	ProvGw: GET response sometimes does not have segment1 related data for subscriber does not exist case	No impact. It is intermittent issue.
32377421	3	1.10.0	nudr-config PUT request for DR- SERVICE fails with the error Internal Server Error	Occurs only when on-demand migration is enabled.
30774750	4	1.3.0	Notify Service delays notifications to PCF during traffic run	Notifications rate is limited in initial release.
30774755	3	1.4.0	Headers for few resources are not implemented as per spec 29505-v15.4.0	No impact.



Bug Number	Severity	Found in Release	Title	Customer Impact/WA
32377341	4	1.10.0	Fetch UDM authentication subscription on UDR returns Internal Server Error	Occurs only with cnDBTier. Possible bug on MySQL Cluster
32377299	4	1.10.0	Duplicate key entries in the database for PUR requests	Occurs only when auto-enrolment is enabled.
32377439	4	1.10.0	De-Registration fails when egressgateway goes down before nrf-client during UDR deletion	No impact

UDR 1.10.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
30774755	3	1.4.0	Headers for few resources are not implemented as per spec 29505-v15.4.0	No Impact
32377439	4	1.10.0	De-Registration fails when egressgateway goes down before nrf- client during UDR deletion	No Impact
32377421	3	1.10.0	nudr-config PUT request for DR-SERVICE fails with the error Internal Server Error	Occurs only when on-demand migration is enabled.
30774742	4	1.3.0	UDR is not validating the conditional attributes for UDM APIs.	No impact. UDM(consumer of UDM APIs) does not send conditional attributes to UDR
30774750	4	1.3.0	Notify Service delays notifications to PCF during traffic run	Notifications rate is limited in initial release.
31877256	4	1.8.0	ProvGw: GET response sometimes does not have segment1 related data for subscriber does not exist case	No impact. It is intermittent issue.
32377325	4	1.10.0	Subscription request fails with the error `Data field does not exist; for Custom APIs	NA



Bug Number	Severity	Found in Release	Title	Customer Impact
32377341	4	1.10.0	Fetch UDM authentication subscription on UDR returns Internal Server Error	Occurs only with cnDBTier. Possible bug on MySQL Cluster
32377407	4	1.10.0	UDM SDM subscription PATCH giving Invalid data content instead of Schema validation failure	NA

