Oracle® Communications

Cloud Native Core Release Notice

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My Oracle Support

My Oracle Support (https://support.oracle.com) is your initial point of contact for all product support and training needs. A representative at Customer Access Support can assist you with My Oracle Support registration.

Call the Customer Access Support main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at http://www.oracle.com/us/support/contact/index.html. When calling, make the selections in the sequence shown below on the Support telephone menu:

1. Select **2** for New Service Request.
2. Select **3** for Hardware, Networking and Solaris Operating System Support.
3. Select one of the following options:
    - For Technical issues such as creating a new Service Request (SR), select **1**.
    - For Non-technical issues such as registration or assistance with My Oracle Support, select **2**.

You are connected to a live agent who can assist you with My Oracle Support registration and opening a support ticket.

My Oracle Support is available 24 hours a day, 7 days a week, 365 days a year.

What's New In This Guide

This section introduces the documentation updates in Oracle Communications Cloud Native Core (CNC) network elements for Release 2.2.1.

New and Updated Features in Service Communication Proxy (SCP) 1.7.5.1

The following sections are updated for SCP Release 1.7.5.1:

- Service Communication Proxy (SCP): Feature enhancement for SCP 1.7.5.1 release is added.
- Media Pack: Media pack details for SCP 1.7.5.1 release is added.
- Resolved Bug List: Bugs resolved in SCP 1.7.5.1 release are added.

New and Updated Features in Service Communication Proxy (SCP) 1.7.5

The following sections are updated for SCP Release 1.7.5:

- Service Communication Proxy (SCP): Feature enhancement for SCP 1.7.5 release is added.
- Media Pack: Media pack details for SCP 1.7.5 release is added.
- Resolved Bug List: Bugs resolved in SCP 1.7.5 release are added.
- Customer Known Bug List: Known bugs are updated for SCP 1.7.5 release.

New and Updated Features in Service Communication Proxy (SCP) 1.7.4.1

The following sections are updated for SCP Release 1.7.4.1:

- Media Pack: Media pack details for SCP 1.7.4.1 release is added.
- Resolved Bug List: Bugs resolved in SCP 1.7.4.1 release are added.

New and Updated Features in Service Communication Proxy (SCP) 1.7.4

The following sections are updated for SCP Release 1.7.4:

- Media Pack: Media pack details for SCP 1.7.4 release is added.
- Resolved Bug List: Bugs resolved in SCP 1.7.4 release are added.

New and Updated Features in Service Communication Proxy (SCP) 1.7.3

The following section is updated for SCP Release 1.7.3:

- Resolved Bug List: 31862946 Bug is added.

New and Updated Features in Cloud Native Core Policy (CNC Policy) 1.7.3

The following sections are updated for CNC Policy Release 1.7.3:

- Cloud Native Core Policy (CNC Policy): Feature enhancement for CNC Policy 1.7.3 is added.
- Media Pack: Media pack details for CNC Policy 1.7.3 is added.
- Resolved Bug List: Bugs resolved in CNC Policy 1.7.3 are added.

New and Updated Features in Service Communication Proxy (SCP) 1.7.3

The following sections are updated for SCP Release 1.7.3:

- Service Communication Proxy (SCP): Feature enhancement for SCP 1.7.3 release is added.
- Media Pack: Media pack details for SCP 1.7.3 release is added.
- Resolved Bug List: Bugs resolved in SCP 1.7.3 release are added.

New and Updated Features in Unified Data Repository (UDR) 1.7.1

The following sections are updated for UDR Release 1.7.1:

- Unified Data Repository (UDR): Feature enhancement for UDR 1.7.1 release is added.
- Media Pack: Media pack details for UDR 1.7.1 release is added.

New and Updated Features in Cloud Native Core Console (CNCC) 1.2.1

The following sections are updated for CNCC Release 1.2.1:

- Cloud Native Core Console (CNCC): Feature enhancement for CNCC 1.2.1 release is added.
- Media Pack: Media pack details for CNCC 1.2.1 release is added.
- Resolved Bug List: Bugs resolved in CNCC 1.2.1 release are added.
- Customer Known Bug List: Known bugs are updated for CNCC 1.2.1 release.

New and Updated Features in Service Communication Proxy (SCP) 1.7.2

The following sections are updated for SCP Release 1.7.2:

- Service Communication Proxy (SCP): Feature enhancement for SCP 1.7.2 release is added.
- Media Pack: Media pack details for SCP 1.7.2 release is added.
- Resolved Bug List: Bugs resolved in SCP 1.7.2 release are added.
- Customer Known Bug List: Known bugs are updated for SCP 1.7.2 release.

New and Updated Features in Network Repository Function (NRF) 1.7.2

The following sections are updated for NRF Release 1.7.2:

- Network Repository Function (NRF): Feature enhancement for NRF 1.7.2 release is added.
- Media Pack: Media pack details for NRF 1.7.2 release is added.
- Resolved Bug List: Bugs resolved in NRF 1.7.2 release are added.
- Customer Known Bug List: Known bugs are updated for NRF 1.7.2 release.

New and Updated Features in Cloud Native Core Policy (CNC Policy) 1.7.2

The following sections are updated for CNC Policy Release 1.7.2:

- Media Pack: Media pack details for CNC Policy 1.7.2 release is added.
- Resolved Bug List: Bugs resolved in CNC Policy 1.7.2 release are added.

New and Updated Features in Service Communication Proxy (SCP) 1.7.1 release

The following sections are updated for SCP Release 1.7.1:

- Media Pack: Media pack details for SCP 1.7.1 release is added.
- Resolved Bug List: Bugs fixed in SCP 1.7.1 release are updated.

New and Updated Features in CNC 2.2.1 release

The following sections are updated for CNC 2.2.1 release:

- Feature Descriptions: The feature specific enhancements implemented in each Network Functions (NFs) are explained in this section.
- Media Pack: Media pack details for CNC 2.2.1 release are mentioned.
- Resolved Bug List: Bugs fixed in CNC 2.2.1 release are updated.
- Customer Known Bug List: The known bugs in CNC 2.2.1 release are updated.

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.

2
Feature Descriptions

This chapter provides a summary of each feature released in Cloud Native features release 2.2.1.

Automated Testing Suite (ATS)

ATS 1.2.0 has been updated with the following enhancements:

- Provides NF Specific login support - Only NF specific pipelines are visible.
- Provides RBAC authorization.
- Allows to deploy ATS using either Helm2 or Helm3 helm versions.
- Enables all the NF teams with the basic environment, framework and a GUI (Jenkins) to execute all the functional test cases.

Cloud Native Environment (CNE)

Cloud Native Environment (CNE) 1.5.0 provides the following major features in this release:

- Enhanced Platform Alerts: Additional platform alerts were added to detect conditions where common services are working at reduced capacity or have failed.
- DB Tier Overlay: A DB Tier Overlay was created to allow customers to install only the DB Tier, for cases where OC-CNE is not used. The DB Tier Overlay will install the DB Tier on KubeVirt VMs in the customer's CNE, so KubeVirt is required.
- Fixed IP Support for vCNE: Customers have the option of selecting specific IP addresses to be used by the Bastion Host, Kubernetes primary and secondary nodes, and DB Tier nodes.
- DB Tier Dual Channel HA Replication: Two replication channels are automatically established between mate sites. While only one channel will be active at a time, (as was the case in previous releases), a failure of the Active replication channel will be detected automatically, and the Standby channel promoted to Active, to keep cross-site replication in service. Manual repair of failed channels is required.

Cloud Native Core Console (CNCC)

Cloud Native Core Console (CNCC) 1.2.1 has been updated with the following enhancements:

- Supports Aspen Service Mesh (ASM) integration
- Supports OSO integration

Cloud Native Core Console (CNCC) 1.2.0 has been updated with the following enhancements:

- Single Sign-On Support using SAML 2.0

- Support for additional UDR Screens:
  - Global Configurations
  - Service Configurations
    - Data repository service
    - Notify service
    - NRF client service
- Helm V3 Support and Custom Annotation and label support

Cloud Native Core Policy (CNC Policy)

CNC Policy 1.7.3 has been updated with the following enhancement:

- Support integration with Aspen Service Mesh 1.4

CNC Policy 1.7.1 has been updated with the following enhancements:

- Converged Policy Framework for PCF and cnPCRF
- Two-phase deployment of policies
- Support for CNE 1.5 platform
- Import/Export enhancements for policies
- Subscriber Activity Logging enhancements
- PI-C Policy Actions and Conditions enhancements
- Converged Policy Geo-redundancy Support
- CN-PCRF API/PPI Support
- Stale Session Handling Enhancements
- Spending Limit Pending Counter Enhancements
- Inter-working support with DRA for policy initiated requests

CNC NF Data Collector

CNC NF Data Collector collects Network Functions' deployment data when NFs are deployed. Also, it collects logs, metrics, traces, and alerts when any functionality issue occurs after the NF deployment is complete. You can run CNC NF Data Collector to generate the required tarballs and examine the log files present in the tarballs for debugging purposes. Using this data, you can determine an NF issue by accessing logs, metrics, traces, and alerts of the NF.

CNC NF Data Collector consists of the following modules:

- Network Function Deployment Data Collector
- Network Function Logs, Metrics, Traces, Alerts Data Collector

Cloud Native Diameter Routing Agent (CnDRA)

There are no new features/updates implemented in CNC 2.2.1 release.

Binding Support Function (BSF)

Binding Support Function (BSF) 1.5.0 has below enhancements:

- BSF related Configuration Management API/PPI enhancements
- OAuth2 Support as producer NF in BSF
- Integration with the latest NRF Client to comply with all new NRF client features
- Autoscaling with liveness and readiness probe support

Inter-Working Function (IWF)

IWF 1.5.0 has been updated with the following enhancements:

- Supports observability (Metrics, KPIs, Alerts, logging, SNMP MIBs) with CNE.
- Supports API gateway Integration

Network Exposure Function (NEF)

There are no new features/updates implemented in CNC 2.2.1 release.

Network Repository Function (NRF)

OCNRF 1.7.2 has been updated with the following enhancement:

- Support for Aspen Service Mesh Integration

OCNRF 1.7.0 has been updated with the following enhancement:

- OCNRF two Site Geo-Redundancy Support
- Support for non-Geo-Redundant NRF Upgrade (OCNRF 1.7.0 will be fresh installation)
- Support for adding Custom Labels and Annotation to Kubernetes Resources
- Support for adding Prefix/Suffix to Container Names
- Compatible with network functions which are compliant with Release 29.510 v15.5 (Sept 2019) version

Network Slice Selection Function (NSSF)

NSSF version 1.4.0 has been updated with the following enhancements:

- Support for HTTP OPTIONS method for NS-Availability
- Compliant to 29.531 version 15.5 with following assumption:
  - OCNSSF is currently not supporting Roaming and 5G to NON-5G handovers.

Service Communication Proxy (SCP)

SCP 1.7.5.1 is updated with the following changes:

- Ingress gateway helm charts are updated to stop generation of netty metrics
- SCPIngressGatewayPodMemoryUsage alert is added in SCP Alerts and Mib files to include memory usage alert for Ingress gateway

SCP 1.7.5 is updated with the following changes:

- New metrics are added to calculate NF wide rate:
  - ocscp_metric_nf_total_http_tx_req
  - ocscp_metric_nf_total_http_rx_req
  - ocscp_metric_nf_total_http_rx_res
  - ocscp_metric_nf_total_http_tx_res
  - ocscp_metric_nf_total_http_rx_res_xx
  - ocscp_metric_nf_total_http_tx_res_xx
- Alerts/Alarms are updated as follows:
  - Expressions updated with correct labels:
    - SCPSoothsayerNotificationPodMemoryUsage
    - SCPWorkerPodMemoryUsage
    - SCPPilotPodMemoryUsage
    - NFInstanceConnectionDown
  - Expression modified to use different function:
    - SCPInstanceDown

Refer to SCP User's Guide for more information.

SCP 1.7.3 has been updated with the following enhancement:

- Aspen Service Mesh 1.4.6-am9 (ASM) Integration with OSO

SCP 1.7.2 has been updated with the following enhancements:

- Cluster role binding is provided as optional feature
- Use of Helm hooks for creating DB tables
- Added new metrics and logs to enable debugging error scenarios

SCP 1.7.0 has been updated with the following enhancements:

- Ingress Gateway support (optional) to increase per connection throughput
- Mediation Enhancement for supporting 3GPP version level inter-operability
- Support for mediation alerts and metrics
- Enhance OCSCP helm chart labels and annotations as per new guideline

Security Edge Proxy Protection (SEPP)

There are no new features/updates implemented in CNC 2.2.1 release.

Unified Data Management (UDM)

There are no new features/updates implemented in CNC 2.2.1 release.

Unified Data Repository (UDR)

UDR 1.7.1 has been updated with the following enhancements:

- Supports Aspen Service Mesh (ASM) integration

UDR 1.7.0 has been updated with the following enhancements:

- Supports features enablement for UDR services
- Supports SLFGroupName provisioning for SLF data
- Integrated with CNC-Console for UDR configuration along with Provisioning
- Integrated with Egress API gateway for egress traffic of UDR
- Supports customizable labels and annotations for Helm charts
- Supports Helm test for validating NF deployment
- Supports Diameter Sh support for subscriber profile
- Provisioning Gateway integrated with Egress API gateway
- Provisioning Gateway supports SLF provisioning using SLFGroupName

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 Oracle Help Center (OHC). 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 2.2.1. For downloading the package, refer to MOS.

> **Note:**
>
> 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 2.2.1

Part Number	Description	Versions	Upgrade	Compliance
NA	Oracle Communications Cloud Native Core Automated Testing Suite (ATS)	1.2.0	Fresh Installation	Compatible with NRF 1.7.0, NSSF 1.4.0, UDR 1.7.0, SCP 1.7.0, CNC Policy 1.7.1
NA	Oracle Communications Cloud Native Core Binding Support Function (BSF)	1.5.0	Fresh Installation	Compatible with NRF 1.7.0, UDR 1.7.0.
NA	Oracle Communications Cloud Native Core Console (CNCC)	1.2.1	Fresh Installation	Compatible with CNC Policy 1.7.2, NRF 1.7.2, SCP 1.7.2, UDR 1.7.1
NA	Oracle Communications Cloud Native Core Console (CNCC)	1.2.0	Fresh Installation	Compatible with CNC Policy 1.7.1, NRF 1.7.0, SCP 1.7.0, UDR 1.7.0
NA	Oracle Communications Cloud Native Core Cloud Native Environment (CNE)	1.5.0	Upgrade supported from 1.4.0 to 1.5.0. For more information refer to CNE Upgrade Guide.	NA

Table 3-1 (Cont.) Media Pack Contents for Cloud Native Core 2.2.1

Part Number	Description	Versions	Upgrade	Compliance
NA	Oracle Communications Cloud Native Core Policy (CNC Policy)	1.7.3	**Note**: 1.7.3 is a PATCH release. This will support a fresh installation as well as upgrade is also supported from 1.7.x to 1.7.3. For more information on installation/ upgrading, refer to *CNC Policy Installation Guide*.	Compatible with BSF 1.5.0, NRF 1.7.0, UDR 1.7.0.
NA	Oracle Communications Cloud Native Core Diameter Routing Agent (CnDRA)	1.6.0	Fresh Installation	NA
NA	Oracle Communications Cloud Native Core Inter-Working Function (IWF)	1.5.0	Fresh Installation	Compatible with BSF 1.5.0, NRF 1.7.0, UDR 1.7.0. Compliant with 3GPP version 15.5
NA	Oracle Communications Cloud Native Core Network Exposure Function (NEF)	1.2.0	Fresh Installation	NA
NA	Oracle Communications Cloud Native Core Network Repository Function (NRF)	1.7.2	Fresh Installation	Compatible with NFs which are Release 29.510 v15.5 (September 2019) version
NA	Oracle Communications Cloud Native Core Network Repository Function (NRF)	1.7.0	Fresh Installation	Compatible with NFs which are Release 29.510 v15.5 (September 2019) version
NA	Oracle Communications Cloud Native Core Network Slice Selection Function (NSSF)	1.4.0	Fresh Installation	Compatible with any NRF, AMF that supports 3GPP Release 15.5 Specs
NA	Oracle Communications Cloud Native Core Service Communication Proxy (SCP)	1.7.5.1	Fresh Installation	Compatible with CNE 1.4 and CNE 1.5
NA	Oracle Communications Cloud Native Core Service Communication Proxy (SCP)	1.7.5	Fresh Installation	Compatible with CNE 1.4 and CNE 1.5

Table 3-1 (Cont.) Media Pack Contents for Cloud Native Core 2.2.1

Part Number	Description	Versions	Upgrade	Compliance
NA	Oracle Communications Cloud Native Core Service Communication Proxy (SCP)	1.7.4.1	Fresh Installation	Compatible with CNE 1.4 and CNE 1.5
NA	Oracle Communications Cloud Native Core Service Communication Proxy (SCP)	1.7.4	Fresh Installation	Compatible with CNE 1.4 and CNE 1.5
NA	Oracle Communications Cloud Native Core Service Communication Proxy (SCP)	1.7.3	Fresh Installation	Compatible with CNE 1.4 and CNE 1.5
NA	Oracle Communications Cloud Native Core Service Communication Proxy (SCP)	1.7.2	Fresh Installation	Compatible with CNE 1.4 and CNE 1.5
NA	Oracle Communications Cloud Native Core Service Communication Proxy (SCP)	1.7.1	Fresh Installation	Compatible with CNE 1.4 and CNE 1.5
NA	Oracle Communications Cloud Native Core Service Communication Proxy (SCP)	1.7.0	Fresh Installation	Compatible with CNE 1.4 and CNE 1.5
NA	Oracle Communications Cloud Native Core Security Edge Protection Policy (SEPP)	1.3.0	Fresh Installation	NA
NA	Oracle Communications Cloud Native Core Unified Data Repository (UDR)	1.7.1	Fresh Installation	Compatible with NRF 1.7.2, CNC Policy 1.7.1 **Note**: Upgrade not supported for SLF from 1.7.0 to 1.7.1
NA	Oracle Communications Cloud Native Core Unified Data Repository (UDR)	1.7.0	Fresh Installation	Compatible with NRF 1.7.0, CNC Policy 1.7.1
NA	Oracle Communications Cloud Native Core Unified Data Management (UDM)	1.1.0	Fresh Installation	NA

Documentation Pack

All documents are available for download from the Oracle Help Center (OHC) site.

4
Resolved and Known Bugs

This chapter lists the resolved and known bugs for Cloud Native Core release 2.2.1.

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 2.2.1.

Table 4-1 CNE 1.5.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
30838215	Major	1.3.2	Bare Metal Installation - Db-1 Management interface not re-configured by ansible script post pipeline
30761850	Major	1.3.2	DB-Tier did not recover from post weekend Lab Shutdown
30832402	Major	1.3.2	Cisco 93180 (TOR) does not recover vrrp or port channels if DB1 fails simultaneous to loss of both TOR switches
30936847	Minor	1.3.2	admusr password on K8s nodes expires after 90 days

Table 4-2 CNC Console 1.2.1 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31756363	Minor	1.2.0	CNCC 1.2: SLF Provisioning Entries Missing from Custom Values File

Table 4-3 CNC Console 1.2.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31355467	Minor	1.1.0	CNCC UDR screen - Minor issue in displaying error message having long text
31355421	Minor	1.1.0	CNCC UDR Screen - Open Items
31355443	Minor	1.1.0	CNCC UDR Screen - Not displaying Authentication Error Messages

Table 4-4 CNC Policy 1.7.3 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31847726	2	1.7.1	PCF support for ClusterIP type on all services
31847827	2	1.7.1	PCF- SCP Integration - Headers incorrect/missing in msg from PCF to SCP
31847835	2	1.7.1	perf-info crashing when Prometheus is not scrapping the data and returning empty records
31847874	2	1.7.1	PCF does not route the call based on higher priority of CHF
31847879	2	1.7.2	Issue while switching between Policy project || cloned project not working
31847864	3	1.7.2	Not able to see session in session viewer GUI - 1.7.2
31847885	3	1.6.0	B2B SM CREATEs for the same subscriber, Subscription with CHF and UDR works fine, but Un-Subscription sequence is erroneous
31847901	3	1.7.1	After a Bulk Import into a PCF 1.7.1 System Policies are not populated with Policy Table Information
31847929	3	1.7.1	Scaling is not working for nrf-discovery due to wrong deployment reference in HPA

Table 4-5 CNC Policy 1.7.2 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31710638	2	1.6.3	Policy Table not working properly in PCF 1.7.1
31710693	2	1.6.3	PCF ingress pod sending 503 Service Unavailable
31710705	2	1.6.3	PCF throwing error Duplicate entry for SUPI , resulting N7 create failure

Table 4-6 CNC Policy 1.7.1 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31367038	3	1.6.0	Remove clusterRole and ClusterRoleBinding from Policy solution
31367115	3	1.6.0	Bulk Import export does not work with Overwrite Option
31647595	2	1.6.0	Not able to see Policy logs in Kibana
31647550	2	1.6.0	Diameter request timeout

Table 4-6 (Cont.) CNC Policy 1.7.1 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31653316	3	1.6.0	EPS fallback PRE and Final AAR policy trigger issue

Table 4-7 NRF 1.7.2 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31621074	3	1.7.0	Custom Annotation, Labels and Prefix-Suffix is not getting added to Helm Hook Jobs
31759592	3	1.7.0	NRF chart should not create clusterrolebinding/clusterrole
31759593	2	1.7.0	mysql host is hardcoded in appinfo for fetching replicationstatus

Table 4-8 NRF 1.7.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31331560	4	1.5.0	NRF is not validating unique serviceInstanceId
31331608	4	1.5.1	Cachecontrol header is not being sent in forwarded discovery response
31620906	3	1.6.1	NRF not sending notification to subscribed NFs

The following resolved bug fixes are not available in SCP 1.8.0 or 1.9.0.

Table 4-9 SCP 1.7.5.1 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32215993	3	1.7.4.1	Ingress Gateway memory usage alarm addition: • SCPIngressGatewayPodMemoryUsage
32216030	2	1.7.4.1	Intermittent 503 Error by Ingress gateway due to out of memory

The following resolved bug fixes are available in SCP 1.9.0 and not available in SCP 1.8.0.

Table 4-10 SCP 1.7.5 Resolved Bugs

Bug Number	Severity	Found in Release	Title
32109782	3	1.7.4	SCP will not stop forwarding traffic to IWF mediation pods.
32109791	3	1.7.4	ELG SCP not reporting metrics after a topology source change.
32109793	3	1.7.4	SCP1.7.4.1 duplicate subscription records, after configuration-notifiction.

Table 4-11 SCP 1.7.4.1 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31979136	3	1.7.4	Add Heartbeat mechanism at worker-pilot interface.
31979141	3	1.7.4	Uplift to IGW 1.8.4 for connection balancing fix.

Table 4-12 SCP 1.7.4 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31862960	2	1.7.2	Exception occurred while applying RO on statically configured profiles
31862971	3	1.7.2	Fix NullPointer exception while creating Virtual service
31862976	3	1.7.2	Circuit Breaking not working if pod level retry is set to 1

Table 4-13 SCP 1.7.3 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31838841	3	1.7.1	scp-worker overrides received server header with it's own default
31838850	3	1.5.2	Same OID (7001) is being repeated in SCP MIB file
31838845	4		Update Severity of scpAlerts to Minor, major for some of the Alerts and Update MIB
31862946	3	1.7.1	Malformed Ip error occurs when message has ip as authority without port and routing from catchallRoute.

Table 4-14 SCP 1.7.2 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31777883	3	1.7.1	SCP need to use NDBCLUSTER as DB Engine instead of InnoDB
31777890	3	1.7.1	Test cases are Failing if ATS is not deployed in scpsvc namespace
31778232	2	1.5.2	Intermittent 503s are being observed upon processing NF Notifications received from NRF
31778238	3	1.7.0	Intermittent 404s are being observed upon processing NF Notifications received from NRF

Table 4-15 SCP 1.7.1 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31704412	3	1.5.3	Notification pod to recover from DB inconsistencies caused when notification crashed/deleted while processing or due to partial delete during deregister
31704425	3	1.5.3	Fix slowness observed in Notification Micro Service on long standing systems
31704428	3	1.5.3	Override x-envoy-original-dst-host with scp-w details to avoid loopback detection error.
31704462	3	1.6.0	Copy SCP-W needed file to /tmp in a pod to avoid any permission issues due to security policy.

Table 4-16 SCP 1.7.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31603629	3	1.6.0	SCP 1.6.0 does not create VS for Nudr or Nbsf services
31603719	3	1.6.0	CHF profiles registration failure when locality is absent from the profile
31604175	4	1.6.0	Make SCP Services Service type configurable to pick any of the ClusterID, NodePort, Load Balancer

Table 4-17 UDR 1.7.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title
31330261	4	1.6.0	UDR allows creating SLF data with empty nfGroupId
31330361	3	1.6.0	Error response format from ProvGw is not as expected.
31330332	3	1.6.0	ProvGw does not send to second UDR within same segment.

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 1.5.0 Resolved Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
31629098	Minor	1.5.0	OCCNP:1.7: ASR/RAR is getting failed in PCF diam gateway when GATEWAY_Mode is converged and AF is connected to BSF	ASR/RAR is not getting routed to BSF-diam gateway
31629139	Minor	1.5.0	Binding ID is not stored properly in SQL database. pcf_binding table of ocpm_bsf database	User will not be able to view the Binding association ID created for a subscriber from ocpm_bsf database
31629575	Minor	1.5.0	BSF/CNCPolicy - Default value for Diameter Identity need to be changed in SM-service configuration	BSF will reject the binding creation

Table 4-19 CNE 1.5.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
30756164	Minor	1.3.2	OCCNE 1.3 Bare Metal Installation Failure -- Replication IP not configured on Sql Nodes during Db-Tier installation	The IP addresses for the replication need to be configured manually following the automated installation.

Table 4-19 (Cont.) CNE 1.5.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
30756201	Minor	1.3.2	OCCNE 1.3 Bare Metal Installation Failure -- Pipeline.sh is not documented. Must be continually restart on error.	An error in the installation pipeline script is not detected efficiently and requires the script to be restarted from the beginning.

Table 4-20 CNC Console 1.2.1 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
31355530	Minor	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. Workaround: Delete user and recreate user with required role.
31773454	Minor	1.2.1.rc.1	CNCC - In the custom values, the images names and tags are not set correctly.	No impact, Customer needs to manually update image name and tags.
31773492	Minor	1.2.1.rc.1	CNCC 1.2.1-rc.1 : cncc-iam pod template restricts the name length to 20 characters	The cncc-iam pod has a template function that restricts the name length to 20 characters. This makes it not follow this naming convention.

Table 4-21 CNC Console 1.2.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
31355530	Minor	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. Workaround: Delete user and recreate user with required role.

Table 4-22 CNC Policy 1.7.1 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
31629098	Minor	1.7.0	OCCNP:1.7: ASR/RAR is getting failed in PCF diam gateway when GATEWAY_Mode is converged and AF is connected to BSF	ASR/RAR is not getting routed to BSF-diam gateway
31629285	2	1.7.0	SM service restarts within 5 hours due to increase in RAM usage with "failed to call BSF " errors	Longevity test and performance test will be impacted. Functional testing will be ok
31629332	Major	1.7.0	Binding service restarts within 5 min for 50 CREATE and 50 DELETE messages	Binding service restarts, which in turn cause failures at SM-service. SM-service memory usage shoots up due to these failures
31629400	Minor	1.7.0	FileNotFoundException observed cm-service logs when user try to access Policy Table & Policy Project GUI	None
31629502	Minor	1.7.0	cnPCRF: Info level logs dumping in pcrf-core with LOGGING_LEVEL_ROOT = ERROR	None
31629532	Minor	1.7.0	cnPCRF: diam-gateway failed to reconnect to UDR on restart of UDR entity	Fail to reconnect to UDR
31629612	Minor	1.7.0	user-service pod throws error as "IllegalArgumentException" while other pod coming up properly	This is an intermittent issue. User Service will not be able to pull the saved configuration from DB
31629681	Minor	1.7.0	Unable to see policies in GUI after a Bulk import options	Bulk Import will not import Policies from GUI

Table 4-23 NRF 1.7.2 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
31620996	4	1.7.0	DB-RTT and Response Processing Time metrics validation fails randomly	These metrics are debugging metrics. Failing to validate these metrics is not functionality failure.

Table 4-24 NRF 1.7.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
31620996	4	1.6.1	Problem Details - Status Code should be Integer (instead of String)	If Consumer NFs validating the datatype of the status IE in Problem Details, then they will reject the message.
31621054	4	1.6.1	Optional parameter with wrong values are being silently ignored in nfProfile and nfServices (ex. notificationType under defaultNotificationSubscriptions)	Discovery Consumer will not get to know that invalid Discovery Query Parameter is sent by them.
31621074	3	1.7.0	Custom Annotation, Labels and Prefix-Suffix is not getting added to Helm Hook Jobs	Operator Can't add Custom Annotation/ Lables/Prefix-Sufix to Helm Hook Jobs.
31621085	4	1.7.0	OCNRF Configuration - generalErrorResponses is coming in response, it is not supported yet	Operator needs to ignore the additional attribute in the GET response.

Table 4-25 SCP 1.7.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
30731782	3	1.2.0	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 and hence minimal impact for customer/user. **Workaround**: None. This is limited by underlying platform.
30731844	3	1.3.0	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 1.7.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
30731829	3	1.4.0	SCPC-Pilot is taking high CPU while applying updates if number of equivalent profiles/ ServiceInstances are exceeding 100	**Workaround**: None.

Table 4-26 UDR 1.7.0 Customer Known Bugs

Bug Number	Severity	Found in Release	Title	Customer Impact
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.
30774755	3	1.4.0	Headers for few resources are not implemented as per spec 29505-v15.4.0	No impact.
31593712	3	1.7.0	Diameter request where mandatory avps are missing must be rejected	No impact
31608081	3	1.7.0	UsageMonitoring data request issue for UDR v15.3 PCF	WA: Run the ***rollbackPCFschema_15_3.py*** from customTemplates and then run the request
31618168	3	1.7.0	Diameter traffic fails when Data-Reference AVP is set to 0	WA: Data reference can be sent as 1 as a temporary solution