Oracle® Communications

Network Analytics Suite Release Notes

Release 23.1.0
F77604-03
April 2023

Oracle Communications Network Analytics Suite Release Notes, Release 23.1.0

F77604-03

Contents

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:

- 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**.
- For Hardware, Networking, and Solaris Operating System Support, select **3**.

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

Release 23.1.0.0.2 - F77604-03, April 2023

OCNWDAF 23.1.0.0.2 Release

Updated the following sections with the details of OCNWDAF release 23.1.0.0.2:

- Media Pack
- Compliance Matrix
- Common Microservices Load Lineup
- Resolved Bug List

Release 23.1.0 - F77604-03, April 2023

OCNADD 23.1.0 Release

Updated the following section with the details of OCNADD release 23.1.0:

- Resolved Bug List

Release 23.1.0 - F77604-02, March 2023

OCNADD 23.1.0 Release

The feature description section has been updated to include information on "Data Replication".

Release 23.1.0 - F77604-01, March 2023

OCNWDAF 23.1.0 Release

Updated the following sections with the details of OCNWDAF release 23.1.0:

- OCNWDAF
- Media Pack
- Compatibility Matrix
- Common Microservices Load Lineup
- Security Certification Declaration

OCNADD 23.1.0 Release

Updated the following sections with the details of OCNADD release 23.1.0:

- OCNADD
- Media Pack
- Compatibility Matrix
- Common Microservices Load Lineup
- Security Certification Declaration
- Resolved Bug List
- Known Bug List

1 Introduction

This document provides information about new features and enhancements to the existing features for Oracle Communications Network Analytics Suite products.

It also includes details related to media pack, common services, security certification declaration, and documentation pack. The detailed information of the fixes are included in the Resolved Bug List section. For issues that are not yet addressed, see the Customer Known Bug List.

For information on how to access key Oracle sites and services, see My Oracle Support.

2
Feature Descriptions

This chapter provides a summary of new features and updates to the existing features for Network Analytics Suite products released in 23.1.0.

2.1 OCNWDAF Feature Descriptions

Release 23.1.0.0.2

No new features or feature enhancements have been introduced in this release.

Release 23.1.0

Oracle Communications Networks Data Analytics Function (NWDAF) 23.1.0 has been updated with the following enhancements:

- **Support for Georedundancy**: Georedundancy is data replication of one site across multiple sites to efficiently handle failure scenarios and ensure High Availability (HA). OCNWDAF now supports both 2 and 3 site Georedundant deployments. For more information, see *Oracle Communications Networks Data Analytics Function User Guide.*
- **NRF Client Service**: This service integrates OCNWDAF with NRF for registration, discovery, and service status or load related information, along with application and performance information services. For more information, see *Oracle Communications Networks Data Analytics Function Installation and Fault Recovery Guide.*
- **Configure OCNWDAF using CNC Console:** Oracle Communications Networks Data Analytics Function (OCNWDAF) now supports configuration of different global and service parameters using the CNC Console application. For more information, see *Oracle Communications Networks Data Analytics Function User Guide.*

2.2 OCNADD Feature Descriptions

Release 23.1.0

Oracle Communications Oracle Communications Network Analytics Data Director (OCNADD) 23.1.0 has been updated with the following enhancements:

- **Data Replication in OCNADD:** The OCNADD provides replication feature that allows the consolidated data on OCNADD to be replicated to multiple number of third-party consumer applications simultaneously, for example, to the monitoring, troubleshooting and security tools. The replication is based on the aggregation and filter rules associated with the egress feeds to the third-party consumer applications. For more information, see the "OCNADD Features" section in *Oracle Communications Network Analytics Data Director User Guide*.
- **Support for Synthetic Packet Data Generation:** Starting with this release, OCNADD supports Synthetic Packet Data Generation feature to convert the incoming JSON data into network transfer wire format and to send the converted packets (Hex Bytes) to third-party monitoring applications over a TCP connection in a secure manner. For more

information, see the "OCNADD Features" section in *Oracle Communications Network Analytics Data Director User Guide*.

- **Support for SEPP:** OCNADD is enhanced to stream incoming data from Oracle NF SEPP. The aggregation rules for SEPP can be configured during the 3rd party application configuration using the Data Director UI. For more information, see the *Oracle Communications Network Analytics Data Director User Guide*.
- **Support for OCNADD UI and Backend Services with a Single Package:** OCNADD provides a single package for UI and Backend OCNADD services installation. For more information, see the "Installing OCNADD GUI" section in *Oracle Communications Network Analytics Data Director Installation, Upgrade, and Fault Recovery Guide.*

3
Media and Documentation

3.1 Media Pack

This section lists the media package for Network Analytics Suite release 23.1.0. To download the media package, see My Oracle Support (MOS).

To learn how to access and download the media package from MOS, see Accessing Documents on MoS.

> **Note:**
>
> The information provided in this section 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 OCNWDAF 23.1.0

Description	NF Version	ATS Version	Upgrade Supported
Oracle Communications Network Data Analytics Function (OCNWDAF)	23.1.0.0.2	23.1.0	OCNWDAF 23.1.0.0.2 supports fresh installation. For more information, see *Oracle Communications Networks Data Analytics Function Installation and Fault Recovery Guide*.
Oracle Communications Network Data Analytics Function (OCNWDAF)	23.1.0	23.1.0	OCNWDAF 23.1.0 supports fresh installation. For more information, see *Oracle Communications Networks Data Analytics Function Installation and Fault Recovery Guide*.

Table 3-2 Media Pack Contents for OCNADD 23.1.0

Description	Version	ATS Version	Upgrade Supported
Oracle Communications Network Analytics Data Director (OCNADD)	23.1.0	23.1.0	OCNADD 23.1.0 supports fresh installation. For more information, see, *Oracle Communications Network Analytics Data Director Installation, Upgrade, and Fault Recovery Guide*.

3.2 Compliance Matrix

The following table lists the compliance matrix for OCNWDAF:

Table 3-3 Compliance Matrix

NF Version	CNE	cnDBTier	CDCS	OSO	Kubernetes	CNC Console	3GPP
23.1.0.0.2	22.1.0	22.4.1	NA	NA	• 1.23.x • 1.22.x • 1.21.x	23.1.0	• 3GPP TS 23.288 v16 • 3GPP TS 23.288 v17.4.0 • 3GPP TS 29.520 v17.6.0 • 3GPP TS 29.508 v17.5.0 • 3GPP TS 29.518 v17.5.0 • 3GPP TS 23.501 v17.5.0 • 3GPP TS 23.502 v17.4.0 • 3GPP TS 33.521 v17.1.0

Table 3-3 (Cont.) Compliance Matrix

NF Version	CNE	cnDBTier	CDCS	OSO	Kubernetes	CNC Console	3GPP
23.1.0	22.1.0	22.4.1	NA	NA	• 1.23.x • 1.22.x • 1.21.x	23.1.0	• 3GPP TS 23.288 v16 • 3GPP TS 23.288 v17.4.0 • 3GPP TS 29.520 v17.6.0 • 3GPP TS 29.508 v17.5.0 • 3GPP TS 29.518 v17.5.0 • 3GPP TS 23.501 v17.5.0 • 3GPP TS 23.502 v17.4.0 • 3GPP TS 33.521 v17.1.0

The following table lists the compliance matrix for OCNADD:

Table 3-4 Compliance Matrix

Version	CNE	cnDBTier	CDCS	OSO	Kubernetes	CNC Console	SCP	NRF	SEPP	3GPP
23.1.0	22.4.x	22.4.x	NA	NA	1.23.x	23.1.x 22.4.x	23.1.x 22.4.x	23.1.x 22.4.x	23.1.x 22.4.x	OCNADD: NA SCP: Release 16 compliant NRF: Release 16 compliant SEPP: Release 16 compliant

> **Note:**
>
> For the data being sent from NRF, GZIP compression is turned off within the NRF.

> **Note:**
>
> For the data being sent from SCP, OCNADD copies the base64 encoded compressed “5g-sbi- message” to the 3rd party consumer without decoding.

3.3 Common Microservices Load Lineup

This section provides information about common microservices and ATS for OCNWDAF Release 23.1.0.

Table 3-5 Common Microservices Load Lineup

NF Version	Alternate Route SVC	App-Info	ASM Configuration	ATS Framework	Config-Server	Debug-tool	Egress Gateway	Ingress Gateway	Helm Test	Mediation	NRF-Client	Perf-Info
23.1.0.0.2	NA	NA	NA	23.1.0	NA	NA	NA	NA	22.2.0	NA	22.4.1	NA
23.1.0	NA	NA	NA	23.1.0	NA	NA	NA	NA	22.2.0	NA	22.4.1	NA

This section provides information about common microservices and ATS for OCNADD release 23.1.0:

Table 3-6 Common Microservices Load Lineup

Version	Alternate Route SVC	App-Info	ASM Configuration	ATS Framework	Config-Server	Debug-tool	Egress Gateway	Ingress Gateway	Helm Test	Mediation	NRF-Client	Perf-Info
23.1.0	NA	NA	NA	23.1.0	NA	NA	NA	NA	NA	NA	NA	NA

3.4 Security Certification Declaration

The following table lists the security tests and the corresponding dates of compliance for OCNWDAF:

Table 3-7 Security Certification Declaration

System test on functional and security features	Regression testing on security configuration	Vulnerability testing	Fuzz testing on external interfaces
February 21, 2023	February 20, 2023	February 20, 2023	February 20, 2023

The following table lists the security tests and the corresponding dates of compliance for OCNADD:

Table 3-8 Security Certification Declaration

System test on functional and security features	Regression testing on security configuration	Vulnerability testing	Fuzz testing on external interfaces
February 17, 2023	February 17, 2023	February 17, 2023	February 17, 2023

3.5 Documentation Pack

All documents for Network Analytics Suite 23.1.0 available for download from the Secure Sites and MOS.

To learn how to access and download the documents from SecureSites, see Oracle Users or Non-Oracle users.

To learn how to access and download the documentation pack from MOS, see Accessing NF Documents on MOS.

4
Resolved and Known Bugs

This chapter lists the resolved and known bugs for Network Analytics Suite Release 23.1.0 .

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.

4.1 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.

4.2 Resolved Bug List

This section provides information on the resolved bugs in Network Analytics Suite products release 23.1.0.

OCNWDAF Resolved Bugs

Table 4-1 OCNWDAF 23.1.0.0.2 Resolved Bugs

Bug Number	Title	Description	Severity	Found In Release
35187774	Installation Guide mentions the procedure to create the NWDAF databases twice in the document	The procedure to create NWDAF databases has been documented in two sections of the Installation Guide. The redundant section has to be removed.	3	23.1.0
35241787	NWDAF GUI helm charts are missing from NWDAF 23.1.0 MoS Package	The NWDAF portal and NWDAF portal service Helm charts are not available in NWDAF 23.1.0.0.1 MoS package. Although images for both the NWDAF portal services are present in NWDAF MoS package but their Helm charts are missing.	3	23.1.0

Table 4-1 (Cont.) OCNWDAF 23.1.0.0.2 Resolved Bugs

Bug Number	Title	Description	Severity	Found In Release
35255779	NWDAF - 23.1.0 GUI functionalities are not working	On accessing the NWDAF GUI through CNC Console, the NWDAF GUI dashboard opens and all the GUI options appear. While accessing the GUI options the GUI freezes. The GUI is requesting the slices and cells over an incorrect localhost URL instead of using the configured URL in CNC Console.	3	23.1.0
35212772	NWDAF 23.1.0 - A SQL export parameter is incomplete in Installation Guide	The export engine variable parameter mentioned in the "Installing NRF client" section of the Installation guide is incomplete.	4	23.1.0

OCNWDAF Resolved Bugs

OCNWDAF 23.1.0 Resolved Bugs

There are no resolved bugs in this release.

OCNADD Resolved Bugs

Table 4-2 OCNADD Resolved Bugs

Bug Number	Title	Description	Severity	Found In Release
35175323	Wrong information about the Advertised Listeners and Privileged users in the Installation Guide	Incorrect example mentioned to provision the Advertised Listeners. OCNADD requires the database administrator to create a privileged user in MySQL database and provide the necessary permissions to access the databases. It is recommended to name this privileged user as "admin user" to avoid confusion with the other privileged user mentioned in *ocnadd-secret-hook.yaml* and *ocdd-db-resource.sql* files.	3	23.1.0
34742422	EGW instance keep increasing on every re-starts	De-registration is not happening when a POD gets restarted.	3	22.0.0
34740421	OCNADD logging Error logs as INFO for Adapter and EGW for when 3rd Party is not reachable/ Down	The logs are being printed as INFO instead of ERROR for this particular scenario	3	22.0.0

Table 4-2 (Cont.) OCNADD Resolved Bugs

Bug Number	Title	Description	Severity	Found In Release
34740391	OCNADD GUI not Validating endpoints	The URI endpoints for third-party consumer application are not getting validated For example, extra spaces, HTTPs are used in case of No-TLS	3	22.0.0
34716751	Heart Beat logs are not showing up (verified on Alarm Service)	The heartbeat logs are printed only in Debug mode.	3	22.0.0
34712921	The x-axis is not giving correct interval	In the Dashboard section of Graphical User Interface (GUI), the Bar graph does not display correct intervals on the x-axis. It shows multiple zeros and ones.	3	22.0.0
34793856	Alarms reporting such as Max replica crossed 90% for a service such as adminservice when replica is 1	The alarm "Max Replica crossed 90% for a service" is raised even though the replica count is 1. The alarm should not be raised for services that do not require more than 1 replica count.	4	22.0.0
34785610	Connection status not changing to Inactive in GUI	The connection status does not change back to an Inactive state, even when directed to the random (wrong) endpoint of a third-party application.	4	22.0.0

Table 4-2 (Cont.) OCNADD Resolved Bugs

Bug Number	Title	Description	Severity	Found In Release
35045542	TCP Connection getting closed after inactivity of 15mins or more for OCNADD's 3rd Party Simulator	When a Synthetic Feed is created and left idle for more than 15 minutes, the TCP connection breaks.	2	23.1.0

4.3 Known Bug List

Known Bugs tables list the known bugs and associated Customer Impact Statements.

OCNWDAF Known Bugs

There are no known bugs for OCNWDAF 23.1.0

OCNADD Known Bugs

The following table lists the known bugs for OCNADD Release 23.1.0.

Table 4-3 Known Bugs

Bug Number	Title	Description	Customer Impact	Severity	Found in Release
35087831	54K MPS ingress & 108K egress with data replication enabled is resulting in 100% of kafka-broker memory utilization	For a specific traffic load test it is observed that 100% of the allocated Kafka-broker memory is being utilized which is not an ideal scenario.	No impact.	3	23.1.0
35069179	Adapter getting restarted when we make changes in the feed after restarting config service	When any feed with oracle ciphers is edited its adapter POD is getting restarted.	No impact.	3	23.1.0

Table 4-3 (Cont.) Known Bugs

Bug Number	Title	Description	Customer Impact	Severity	Found in Release
35058236	OCNADD UI not Validating Data feeds Endpoints	Invalid Endpoints given by users are not validated by the UI.	Missing validation can result in an incorrect configuration. Thus, the user needs to provide the correct endpoints.	3	23.1.0
35052457	OCNADD: Incorrect correlation id observed in synthetic packet for specific x-request-id value	There is a mismatch in x-request-id header value for the Synthetic packet received at the third-party consumer.	Incorrect x-request-id is observed in the header.	3	23.1.0
35045999	After deleting any Data Feed, Major Alarm raised	For a deleted Data Feed, the major alarm for connection status "Connection Could not be established with the server" remains for a specific duration.	No impact. However, the alarms shown for a deleted Data Feed (for a specific duration) can mislead the users.	3	23.1.0
35039749	In Dashboard the Average Message Size per NF is incorrect	In GUI dashboard, the "Average Message Size per NF" is incorrect.	No impact. However, the incorrect message size shown can mislead the users.	3	23.1.0

Table 4-3 (Cont.) Known Bugs

Bug Number	Title	Description	Customer Impact	Severity	Found in Release
34827399	Discrepancy in OCNADD metrics - Tx messages are higher than Rx messages	The outgoing traffic handled by the Adapter service is higher than the actual incoming packets at Kafka. This is due to Kafka consumer rebalancing.	Duplicate packets may be sent to third-party consumers.	3	23.1.0
34786365	OCNADD logging Error logs as INFO for Configuration service for when it is sending Notification to Adapter	When sending the notifications to Adapter, the Configuration service is logging a few ERROR logs as INFO.	No impact.	3	23.1.0
35067498	For Synthetic feed, adapter is not raising alarm for 3rd party connection failure with low traffic	For a Synthetic feed, the Adapter service is not raising the alarm when third party pod is down while processing low traffic.	No impact.	4	23.1.0
35063634	Improper description for the alarm - OCNADD02005: ThirdParty Connection Failure	An improper description is displayed on UI for the alarm - "OCNADD02005: ThirdParty Connection Failure".	No impact.	4	23.1.0