# Oracle® Communications Network Analytics Suite Release Notes





Oracle Communications Network Analytics Suite Release Notes, Release 24.3.0.0.1

G12509-03

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## What's New in This Guide

This section lists the documentation updates for Network Analytics Suite release 24.3.x.

#### Release 24.3.0.0.1 - G12509-03, March 2025

Updated the following sections with the details of OCNADD release 24.3.0.0.1:

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

#### Release 24.3.0 - G12509-02, February 2025

Removed all the references of PCF as it is not supported in this release.

#### Release 24.3.0 - G12509-01, November 2024

#### OCNADD 24.3.0 Release

Updated the following sections with the details of OCNADD release 24.3.0:

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



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## 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.



# **Feature Descriptions**

This chapter provides a summary of new features and updates to the existing features for Network Analytics Suite products released in 24.3.x.

## 2.1 OCNADD Feature Descriptions

#### Release 24.3.0.0.1

There are no new features in this release.

#### Release 24.3.0

Oracle Communications Network Analytics Data Director (OCNADD) 24.3.0 has been updated with the following enhancements:

- Message Feed Feature for Oracle BSF: The latest release introduces message feed support for Oracle Communications Cloud Native Core, Binding Support Function (BSF), including the following features where BSF is used as a traffic source for OCNADD:
  - Data Aggregation Rules
  - Data Filtering
  - Message Sequencing
  - Metadata Enrichment
  - Correlation

For more information, See the *Oracle Communications Network Analytics Data Director User Guide.* 

- Traffic Segregation Support with OCCNE CNLB: In the current combined stack (OC-CNE, OCNADD, CN BRM/ECE), it is not possible to logically separate IP traffic of different profiles, For example, latency-sensitive traffic from configuration and management traffic, as all traffic is internally handled through a single network (Kubernetes overlay). To avoid network congestion, this feature ensures that these networks (for example, OAM, signaling, and data replication) are never cross-connected or share the same routes on the NFVI provider side. OCNADD now supports traffic segregation for external applications by utilizing OCCNE CNLB capabilities.
  - For more information, see "Traffic Segregation using CNLB" section in the *Oracle Communications Network Analytics Data Director User Guide*.
- OCCM Migration Simplification: The migration from script-based certificate generation to OCCM-managed certificates has been simplified. Users can now migrate to OCCMmanaged certificates by simply upgrading DD with OCCM enabled in custom values.
   For more information, see the Oracle Communications Network Analytics Data Director Install, Upgrade, and Fault Recovery Guide.
- Enhancements for the PCAP Export: The latest release introduces enhancements to PCAP export, allowing the association of the existing synthetic feed L3/L4 configuration with PCAP-based data export.
  - For more information, see "Export" section the *Oracle Communications Network Analytics Data Director User Guide*.

- Customization of the cnDBTier Parameters: The latest release introduces customization
  options for the cnDBTier parameters in OCNADD. A custom values file for the cnDBTier
  parameters is provided in the OCNADD package.
  - For more information, see the Oracle Communications Network Analytics Data Director Install, Upgrade, and Fault Recovery Guide.
- **Performance Improvements**: Performance benchmarks have been updated in the benchmarking guide.
  - For more information, See the *Oracle Communications Network Analytics Data Director Benchmarking Guide*.



## Media and Documentation

### 3.1 Media Pack

This section lists the media package for Network Analytics Suite release 24.3.x. 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.



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 OCNADD 24.3.x

Description	Version	ATS Version	Upgrade Supported
Oracle Communications Network Analytics Data Director (OCNADD)	24.3.0.0.1	24.3.0	OCNADD 24.3.0.0.1 supports the upgrade from 24.3.0. For more information, see Oracle Communications Network Analytics Data Director Installation, Upgrade, and Fault Recovery Guide.
Oracle Communications Network Analytics Data Director (OCNADD)	24.3.0	24.3.0	OCNADD 24.3.0 supports the upgrade from 24.2.x and 24.1.x. For more information, see Oracle Communications Network Analytics Data Director Installation, Upgrade, and Fault Recovery Guide.

# 3.2 Compatibility Matrix



For seamless integration and optimal performance of CNC NFs on third party platform, the third party platform needs to be compatible with the specified Kubernetes version.

The following table lists the compatibility matrix for OCNADD:

Table 3-2 Compatibility Matrix for OCNADD 24.3.x

Version	CN	ΙE	cn Tie		OCI Adap ter	oso	ASM S/W	Ku rne s		OCC M	CN Col	ns	sc	Р	NR	F	SE	PP	BSF
24.3.0.0.	•	2	•	2	24.2.x	NA	NA	•	1.	24.3.0	•	2	•	2	•	2	•	2	24.3.0
1		4.		4.					3			4.		4.		4.		4.	
		3.		3.					0.			3.		3.		3.		3.	
		0		0					Χ			0		0		0		0	
	•	2	•	2				•	1.		•	2	•	2	•	2	•	2	
		4.		4.					2			4.		4.		4.		4.	
		2.		2.					9.			2.		2.		2.		2.	
		0		0					Χ			0		0		0		0	
	•	2	•	2				•	1.		•	2	•	2	•	2	•	2	
		4.		4.					2			4.		4.		4.		4.	
		1.		1.					8.			1.		1.		1.		1.	
		0		0					Х			0		0		0		0	
24.3.0	•	2	•	2	24.2.x	NA	NA	•	1.	24.3.0	•	2	•	2	•	2	•	2	24.3.0
		4.		4.					3			4.		4.		4.		4.	
		3.		3.					0.			3.		3.		3.		3.	
		0		0					Χ			0		0		0		0	
	•	2	•	2				•	1.		•	2	•	2	•	2	•	2	
		4.		4.					2			4.		4.		4.		4.	
		2.		2.					9.			2.		2.		2.		2.	
		0		0					Χ			0		0		0		0	
	•	2	•	2				•	1.		•	2	•	2	•	2	•	2	
		4.		4.					2			4.		4.		4.		4.	
		1.		1.					8.			1.		1.		1.		1.	
		0		0					Х			0		0		0		0	

#### **3GPP Compatibility Matrix**

The following table lists the 3GPP compatibility matrix:

Table 3-3 3GPP Compatibility Matrix

NF	NF Version	3GPP
OCNADD	24.3.x	NA
SCP	<ul><li>24.3.x</li><li>24.2.x</li><li>24.1.x</li></ul>	Release 16 compliant
NRF	• 24.3.x • 24.2.x • 24.1.x	Release 16 compliant
SEPP	<ul><li>24.3.x</li><li>24.2.x</li><li>24.1.x</li></ul>	Release 16 compliant
BSF	<ul><li>24.3.x</li><li>24.2.x</li><li>24.1.x</li></ul>	Release 16 compliant



#### Note:

- For the data being sent from NRF, GZIP compression is turned off within the NRF.
- For the data being sent from SCP, OCNADD copies the base64 encoded compressed "5g-sbi- message" to the third party consumer without decoding.
- For seamless integration and optimal performance of CNC NFs on third party platform, the third party platform needs to be compatible with the specified Kubernetes version.

# 3.3 Common Microservices Load Lineup

This section provides information about common microservices and ATS for OCNADD release 24.3.x:

Table 3-4 Common Microservices Load Lineup for OCNADD 24.3.x

Version	Alter nate Rout e SVC	App- Info	ASM Confi gurat ion Chart	ATS Fram ewor k	Confi g- Serv er	Debu g- tool	Egre ss Gate way	Ingre ss Gate way	Helm Test	Medi ation	NRF- Clien t	Perf- Info
24.3.0.0. 1	NA	NA	NA	24.3.0	NA	NA	NA	NA	NA	NA	NA	NA
24.3.0	NA	NA	NA	24.3.0	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 OCNADD:

Table 3-5 Security Certification Declaration for OCNADD 24.3.x

Compliance Test Description	Test Completion Date	Summary
Static Source Code Analysis Additional Information: Assesses adherence to common secure coding standards	04 September, 2024	No unmitigated critical or high findings.
Dynamic Analysis (including fuzz testing) Additional Information: Tests for risk of common attack vectors such as OWASP Top 10 and SANS 25	27 August, 2024	No unmitigated critical or high findings
Vulnerability Scans Additional Information: Scans for CVEs in embedded 3rd party components	18 September, 2024	No unmitigated critical or high findings

Table 3-5 (Cont.) Security Certification Declaration for OCNADD 24.3.x

Compliance Test Description	Test Completion Date	Summary
Malware Scans Additional Information: Scans all deliverable software packages for the presence of known malware	18 September, 2024	No unmitigated critical or high findings

**Overall Summary**: No critical or severity 1 security issues were found or pending during internal security testing.

## 3.5 Documentation Pack

All documents for Network Analytics Suite 24.3.0 available for download from the Secure Sites and My Oracle Support (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.



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# Resolved and Known Bugs

This chapter lists the resolved and known bugs for Network Analytics Suite Release 24.3.x.

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 24.3.x.

**OCNADD Resolved Bugs** 

Release 24.3.0.0.1

Table 4-1 OCNADD 24.3.0.0.1 Resolved Bugs

Bug Number	Title	Description	Severity	Found in Release
37455083	OCNADD GUI Requirements workaround request	For the OCNADD GUI to load successfully, the following URLs needed to be accessible from the user's location: • "https://static.oracle.com" • "https://static-stage.oracle.com" These URLs either had to be accessible or a workaround needed to be provided. Without access, the GUI did not load, causing their preproduction DD environment to fail. This issue affected a new DD customer who was attempting to set up test and production labs.	3	23.4.0

Release 24.3.0

Table 4-2 OCNADD 24.3.0 Resolved Bugs

Bug Number	Title	Description	Severity	Found in Release
36623369	DD GUI display issue in status and worker group name	It was observed that opening each site in the same browser caused the worker group (WG) name to be the same as the one initially opened. Additionally, the feed status "Fetching data" was incorrectly shown on the UI.	2	23.4.0



Table 4-2 (Cont.) OCNADD 24.3.0 Resolved Bugs

Bug Number	Title	Description	Severity	Found
Bug Number	Title	Description	Seventy	in Release
36564047	Kafka-broker STS not pointing to headless service  The Kafka broker STS manifest showed the service name "kafka-broker" instead of "kafka-broker-headless," so the pod headless FQDN was not pingable. Ideally, it should have pointed to the headless service.		3	23.4.0
36751592	CORRELATED_FILTERED correlation not replicating to mated site	In the case of the two-site redundancy feature, the correlation configuration was not replicated to the mate site when the Kafka feed type was "CORRELATED_FILTERED."	3	24.2.0
36737090	DD-OCCM: backup-related OCCM files were missing in the package	The manual backup and restore did not work if OCCM was enabled.	3	24.2.0
36697937	24.2.0-Perf: ocnadd aggregation pods spinning beyond 90% CPU with 135K aggregation traffic	High resource utilization was seen in the aggregation service instances for high traffic rates (135K+ MPS).	3	24.2.0
36697097	Kafka without Zookeeper: DD worker group installation was stuck when installing without Zookeeper	The installation of the worker group was stuck as there were no certificates created using OCCM.	3	24.2.0
36681307	Data Director GUI page stated "No Worker Groups are installed" when there was a Worker Group	No worker group was allowed to be selected if a default worker group was used in the centralized deployment.	3	23.4.0
36653996	OCNADD's Loss of Connection alarm was not cleared automatically even when the service was up	The Loss of Connection alarm was not cleared even after the respective service was up and running.	3	24.2.0
36590208	Export functionality for CSV/ PCAP was not working when applied with filters	The filters worked fine; however, if the filter returned a low number of records in the export query, the export failed.	3	24.2.0
36688812	DD-GUI: The Trace response showed one more page (with improper data) even if all records were already displayed	An additional page appeared on the trace screen even if all the records in the trace query had been displayed on the first page.	4	24.2.0
36669047	Alarm for "Kafka Consumption Paused" was raised even if all the topics were receiving continuous traffic	Alarms were raised to indicate that traffic consumption from Kafka was paused, even though the topics continued to receive traffic.	4	24.2.0



Table 4-2 (Cont.) OCNADD 24.3.0 Resolved Bugs

Bug Number	Title	Description	Severity	Found in Release
36671638	Alarms such as "SFTP Service Unreachable" and "No Data Available for Export" were not getting cleared	Alarms for the "SFTP service unreachable" and "No Data Available" were not cleared even after the issues causing the alarms were resolved.	4	24.2.0

# 4.3 Known Bug List

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

#### **OCNADD Known Bugs**

The following table lists the known bugs for OCNADD Release 24.3.x.

#### Release 24.3.0.0.1

There are no new known bugs in this release.



#### **Release 24.3.0**

Table 4-3 OCNADD 24.3.0 Known Bugs

Bug Number	Title	Description	Severity	Found In Release	Customer Impact & Workaround
3674555	Adapter and Alarm pods in crash-loop when datafeed created with incorrect endpoint	The issue occurs in the HTTP2 feed when incorrect endpoints are configured in the destination endpoint.	3	24.2.0	Too many alarms and logs may cause the ephemeral storage usage to exceed, resulting in a POD restart.  Workaround: An incorrect third-party endpoint is provided, and the error is as follows: OCL 2024-06-18T14:5 2:53.351Z ERROR 1 [- StreamThread-2] c.o.c.c.o.C.s.t .TopologyBuilde rImpl : Error occurred processing message. Error: Failed to resolve 'ocnaddthirdpar tyconsumeroracl e3.kp-wg1' [A(1), AAAA(28)] after 2 queries.
					1. Edit the Feed: Correct the endpoint so that traffic starts reaching the third-party service.
					2. Unavailable Endpoints: If the correct endpoints are not available at present but will be in the future, edit the feed and change the value from "Do

Table 4-3 (Cont.) OCNADD 24.3.0 Known Bugs

Bug Number	Title	Description	Severity	Found In Release	Customer Impact & Workaround
					not try again" to "Keep trying" for the "Data reach failure" parameter.
					3. Manually Delete Adapter Pods: If adapter pods are in the ERROR state, manually delete them with the following command: kubectl delete podsfield-selector status.phas e=Failed -n <namespace></namespace>
3710947 2	DD UI is stuck on feed creation screen during clone if multiple endpoints are added	The feed is not getting cloned when modification of endpoints is also done while cloning the feed.	3	24.3.0	Cloning the feed may not be possible in specific scenarios, increasing the configuration effort. <b>Workaround:</b> Create a new feed from the UI without using the cloning option.
3708179 7	MPS inconsistency in Dashboard	The ingress MPS rate is not getting reflected correctly for the feed. The UI shows the feed as active when there is no traffic running.	3	24.2.0	MPS reporting is inaccurate and may confuse users about the actual status.  Workaround: Use Grafana dashboards to check the actual MPS and feed status.

Table 4-3 (Cont.) OCNADD 24.3.0 Known Bugs

Bug Number	Title	Description	Severity	Found In Release	Customer Impact & Workaround
3708018 4	DD Export Feature - SFTP IP is Not Accepted in Case IP has 0 octet	The validation is not working correctly if any octet of the IP address contains "0," for example, 10.100.0.100 is not working, but 10.100.10.100 is working.	3	24.2.0	The customer will not be able to use the IP address containing any octet as "0" for the SFTP server.  Workaround:
					The SFTP server IP address should not contain "0" in any octet.
3704321 9	Synthetic feed L3L4 mapping is not getting applied, values are resetting to default after feed creation	The L3L4 mapping rules are not getting saved during the feed creation. The L3L4 information is not being saved and is reverting to default values.	3	24.3.0	L3L4 mapping rules are not saved, increasing the configuration effort for the user. Workaround:
					Edit and update the Synthetic feed mapping from the "L3L4 Configure" page and save it.
3698865 9	Unable to create Ingress Feed when IntraTls is false	The ingress adapter feed is not getting created when intraTLS is disabled. The init container attempts to load the secret, but the secrets do not exist, and feed creation fails.	3	24.3.0	Users cannot create ingress adapter feeds with intraTLS disabled. Workaround: Enable intraTLS and create certificates for all services, regardless of intraTLS mode.
3698821 3	Filter service not spawning when DD is installed with intraTLS disabled	The filter service is not getting created when intraTLS is disabled. The init container attempts to load the secret, but the secrets do not exist, and the service stays in the init state.	3	24.3.0	No impact on the user, as the filter service is only required when Kafka feeds are used, and with Kafka feeds, intraTLS must always be enabled. Workaround: Enable intraTLS and create certificates for all services, regardless of intraTLS mode.



Table 4-3 (Cont.) OCNADD 24.3.0 Known Bugs

Bug Number	Title	Description	Severity	Found In Release	Customer Impact & Workaround
3696211 4	CORRELATED- FILTERED feed does not work when upgraded or replicated to secondary site	The CORRELATED-FILTERED feed does not work in the following scenarios: 1) when an upgrade is performed with CORRELATED-FILTERED feed; 2) when TSR is created with CORRELATED-FILTERED feed (the replicated CORRELATED-FILTERED feed to the secondary site does not work).	3	24.3.0	The correlated filtered feed will not work post-upgrade and requires restarting the filter service.  Workaround: Restart the filter service to resume data on the CORRELATED-FILTERED topic.
3690788	DD upgrade from 23.4.0 to 24.2.0 fails with: warnings.go:70 unknown field "spec.template.spe c.volumes[0].secret .secret"	The upgrade fails as the init container tries to load the secrets that are not present for all services in DD. The customer has chosen to disable intraTLS.	3	24.2.0	The upgrade fails when the secrets for all DD services are not available. The customer needs to create additional certificates even though they should not be required with intraTLS disabled.  Workaround: Enable intraTLS and create certificates for all services, regardless of intraTLS mode.
3684051 4	Multiple "Affected microservice" listings for one alarm of kafka- broker crash	The alarm listing shows multiple entries with different Kafka-broker service IDs, even though only one Kafka broker is in a crash-loop back state.	3	24.3.0	Multiple alarms with different service IDs for the same broker may confuse users into believing that multiple Kafka broker PODs are crashing. Workaround: NA
3671561 4	DD-GUI: Dashboard showing incomplete information for kafka-broker pod status	The Kafka service status reporting does not take into account the status of all the PODs and shows the service as Active even though one or more Kafka broker PODs are down.	3	24.2.0	The correct status of the Kafka broker service may not be known to the user. <b>Workaround:</b> NA



Table 4-3 (Cont.) OCNADD 24.3.0 Known Bugs

Bug Number	Title	Description	Severity	Found In Release	Customer Impact & Workaround
3671446 2	DD GUI : L3L4 and Filter details are missing from Export Configuration Summary	The user is able to see the filter and L3L4 configuration while creating the export configuration. However, the summary screen is not showing the same.	3	24.2.0	No impact. <b>Workaround:</b> NA
3665374 8	OCNADD Ingress Feed : Actual message is not printed when OCNADD is unable to decode the message	The logging of the discarded message is not complete when OCNADD is unable to decode the message.	3	24.2.0	No impact. Workaround: NA
3665399 6	OCNADD's Loss of Connection Alarm is not cleared automatically even when the service is up	The Loss of Connection alarm is not getting cleared even after the respective service is up and running.	3	24.2.0	This issue can mislead the user into believing that the service has not come up correctly. Workaround:
3709324 3	In Export Config UI, start time backward scrolling is not working for hours field	It is not possible to scroll the start time hours field in a backward direction.	4	24.3.0	The customer may not be able to scroll the start time in a backward direction. <b>Workaround:</b>
3695051 7	Ingress feeds continue to show MPS line chart when there is no traffic running	The ingress MPS rate is not reflected correctly for the feed. The UI shows the feed as active even when there is no traffic running.	4	24.3.0	MPS reporting is inaccurate and may confuse users about the actual status.  Workaround: Use Grafana dashboards to check the actual MPS and feed status.
3684536 4	Kafka feed not visible in the GUI	The UI does not display a more appropriate error message when Kafka ACL-related parameters are not enabled.	4	24.2.0	The user is unable to find the cause of the failure with the current UI message.  Workaround: NA



Table 4-3 (Cont.) OCNADD 24.3.0 Known Bugs

Bug Number	Title	Description	Severity	Found In Release	Customer Impact & Workaround
3684442 5	Events of alarm are displayed randomly	When there are more than one event for the alarms, the events are not listed in any particular order. The events should be in an order (preferably descending), such that the first event for the alarm is at the bottom and the latest event (or the CLEARED event) is at the top.	4	24.3.0	No impact. <b>Workaround:</b> NA
3669458 7	DD-GUI : Export configuration summary does not show applied filter details	The summary page of the filter creation screen does not show the summary of the created filters.	4	24.2.0	No impact. Workaround: NA
3666680 9	DD-GUI : "Done" button not getting active after saving kafka-template configuration	It is observed that while editing the kafka-template configuration, after saving the configuration, the "Done" button does not get activated.	4	24.2.0	No impact. <b>Workaround:</b> NA

