Oracle® Communications
Cloud Native Core, Network Exposure Function Network Impact Report

Release 24.2.2

F98226-04

September 2025

ORACLE

Oracle Communications Cloud Native Core, Network Exposure Function Network Impact Report, Release 24.2.2

F98226-04

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.

Acronyms and Terminologies

The following table lists the acronyms and the terminologies used in the document.

Table   Acronyms

Acronym	Description
3GPP	3rd Generation Partnership Project
5GC	5G Core Network
5GS	5G System
AF	Application Function
API	Application Programming Interface
CNC	Cloud Native Core
CNE	Oracle Communications Cloud Native Environment
EG	Exposure Gateway
EFC	Exposure Function Core
FQDN	Fully Qualified Domain Name
GPSI	Generic Public Subscription Identifier
GMLC	Gateway Mobile Location Center
HA	High Availability
IMSI	International Mobile Subscriber Identity
K8s	Kubernetes
ME	Monitoring Events
MSISDN	Mobile Station International Subscriber Directory Number
NEF	Oracle Communications Cloud Native Core, Network Exposure Function
NF	Network Function
NRF	Oracle Communications Cloud Native Core, Network Repository Function
NSSF	Oracle Communications Cloud Native Core, Network Slice Selection Function
OAM	Operations, Administration, and Maintenance
PDB	Pod Disruption Budget
SBA	Service Based Architecture
SBI	Service Based Interface
SUPI	Subscription Permanent Identifier
UDM	Unified Data Management
URI	Uniform Resource Identifier
QoS	Quality of Service

What's New in This Guide

This section introduces the documentation updates for release 24.2.x.

Release 24.2.2 - F98226-04, September 2025

- Updated the supported upgrade and rollback paths in the Supported Upgrade and Rollback Paths section.

Release 24.2.1 - F98226-03, October 2024

- Updated the release number to 24.2.1 in the entire document.

- Updated the image tag details in the Common Services Load Lineup section.

- Updated the compatibility matrix table with latest versions in the Compatibility Matrix section.

- Updated the supported upgrade and rollback paths in the Supported Upgrade and Rollback Paths section.

Release 24.2.0 - F98226-02, September 2024

Made cosmetic changes and updated stem sentences across the document.

Release 24.2.0 - F98226-01, July 2024

- **General Updates**:

    - Updated the release number to 24.2.0 in the entire document.

    - Updated the image tag details in the Common Services Load Lineup section.

    - Updated the compatibility matrix table with latest versions in the Compatibility Matrix section.

    - Updated the versions for supported software in the Software Requirements section.

    - Added overview of all the features for this release in the NEF Features section.

    - Added all the Helm Parameters for this release in the Helm section.

    - Added all the Metrics for this release in the Metrics section.

    - Added all the Alerts for this release in the Alerts section.

- **Upgrade, Rollback, and Uninstall Updates**:

    - Updated the supported upgrade and rollback paths in the Supported Upgrade and Rollback Paths section.

1

Introduction

The purpose of this document is to highlight the changes made in NEF from release 24.1.x to release 24.2.x. These changes may have an impact on the customer network operations and must be considered by the customer while planning the deployment.

1.1 Compatibility Matrix

This section lists the versions of added or updated components in release 24.2.x. To know the list of all the supported versions, see *Oracle Communications Cloud Native Core Release Notes*.

Release 24.2.2

There is no change in the compatible matrix for this release.

Release 24.2.1

There is no change in the compatible matrix for this release.

Release 24.2.0

The following table lists the versions of added or updated components in this release:

Table 1-1   Compatibility Matrix

Component	Compatible Versions
ATS	24.2.x
cnDBTier	24.2.x, 24.1.x, 23.4.x
CNE	24.2.x, 24.1.x, 23.4.x
OCI Adaptor	24.2.x

1.2 Common Services Load Lineup

This section lists the versions of added or updated common services in release 24.2.x. To know the list of all the supported versions, see *Oracle Communications Cloud Native Core Release Notes*.

Release 24.2.2

There is no change in the common services load lineup in this release.

Release 24.2.1

The following table lists the versions of added or updated common services in release 24.2.1.

Table 1-2   Common Services Load Lineup

Common Service	Version
App-Info	24.2.15
ATS Framework	24.2.2
Common-Config-Hook	24.2.15
Config-Server	24.2.15
Configuration Update Service	24.2.15
Configuration INIT Service	24.2.15
Debug-tool	24.2.6
Egress Gateway	24.2.15
Helm Test	24.2.5
Ingress Gateway	24.2.15
NRF-Client	24.2.8
Perf-Info	24.2.15

Release 24.2.0

The following table lists the versions of added or updated common services in this release:

Table 1-3   Common Services Load Lineup

Common Service	Version
App-Info	24.2.1
ATS Framework	24.2.0
Common-Config-Hook	24.2.4
Config-Server	24.2.1
Configuration Update Service	24.2.4
Configuration INIT Service	24.2.4
Debug-tool	24.2.1
Egress Gateway	24.2.4
Helm Test	24.2.1
Ingress Gateway	24.2.4
NRF-Client	24.2.1
Perf-Info	24.2.1

1.3 Software Requirements

This section lists the added or updated software required to install NEF release 24.2.x. For more information about software requirements, see *Oracle Communications Cloud Native Core, Network Exposure Function Installation, Upgrade, and Fault Recovery Guide*.

Release 24.2.2

There is no change in the software requirements for this release.

Release 24.2.1

There is no change in the software requirements for this release.

Release 24.2.0

The following table lists the versions of added or updated software required to install this release:

Table 1-4   Software Requirements

Software	Versions
Helm	3.13.2
Kubernetes	1.29.x, 1.28.x, 1.27.x

The following table lists the versions of additional software along with the usage:

Table 1-5   Additional Software

Software	Version	Purpose
Calico	3.26.4	Logging
cert-manager	1.12.4	Logging
containerd	1.7.13	Logging
Grafana	9.5.3	Metrics
Istio	1.18.2	Logging
Jaeger	1.52.0	Logging
Kyverno	1.9.0	Logging
MetalLb	0.14.4	Logging
Prometheus	2.51.1	Metrics
Prometheus Operator	0.72.0	Metrics

1.4 Orchestration

This section provides information about orchestration changes in release 24.2.x.

Release 24.2.2

There is no change to the orchestration in this release.

Release 24.2.1

There is no change to the orchestration in this release.

Release 24.2.0

The following table provides information about orchestration changes in this release:

Table 1-6   Orchestration

Orchestration Changes	Status	Notes
Support for in-service upgrade and roll back	Yes	For information about upgrade and roll back, see Supported Upgrade and Rollback Paths.

Table 1-6   (Cont.) Orchestration

Orchestration Changes	Status	Notes
Changes in the `custom-values.yaml` file	Yes	NEF architecture supports the following custom values files: • `ocnef-custom-values.yaml` • `occapif-custom-values.yaml` For information about the `custom-values.yaml` file, see Helm.
Changes in the resource information for `ocnef-custom-values.yaml` and `occapif-custom-values.yaml` files	Yes	For information about changes in the resource requirements, see Resource Requirements.
Changes in the CSAR package	No	No CSAR package changes.
Changes in Role-Based Access Control (RBAC) policy	No	No new RBAC policies are added.
Changes in Life Cycle Management (LCM) Operations	No	No new LCM operations are added.
Helm Test Support	No	For information about Helm test, see the "Performing Helm Test" section in *Oracle Communications Cloud Native Core, Network Exposure Function Installation, Upgrade, and Fault Recovery Guide.*

1.5 Resource Requirements

This section lists the added or updated resource requirements in release 24.2.x. For more information about resource requirements, see *Oracle Communications Cloud Native Core, Network Exposure Function Installation, Upgrade, and Fault Recovery Guide*.

> ⓘ **Note**
>
> Changes in the resource requirements are highlighted in **bold**.

Release 24.2.2

There is no resource requirements added in this release.

Release 24.2.1

There is no resource requirements added in this release.

Release 24.2.0

The following table lists the added or updated resource requirements in this release:

Table 1-7   Resource Requirements for NEF Services

Microservice Name	CPU Request and limit per POD (A)	Memory Request and limit per POD (B)	Scaling Criteria CPU Usage %	Default POD Count (C)	Maximum POD count with scaling (D)	Minimum CPU Total for Default PODs (A*C)	Minimum Memory Total for Default PODs (B*C)	Maximum CPU Total for all PODs (with full scaling and surge) (A*D)	Maximum Memory Total for all PODs (with full scaling and surge) (B*D)	CPU Request and limit for Debug Container (Optional)	Memory Request and limit for Debug Container (Optional)
APD Manager	4	4Gi	70	2	2	8	8Gi	8	8Gi	1	2Gi
API Router	4	4Gi	70	2	2	8	8Gi	8	8Gi	1	2Gi
External Egress Gateway	4	4Gi	70	2	5	8	8Gi	20	20Gi	1	2Gi
External Ingress Gateway	4	4Gi	70	2	5	8	8Gi	20	520Gi	1	2Gi
5GC Egress Gateway	4	4Gi	70	2	5	8	8Gi	20	20Gi	1	2Gi
5GC Ingress Gateway	4	4Gi	70	2	5	8	8Gi	20	20Gi	1	2Gi
Common Config Hook	1	1Gi	1	1	1	1	1Gi	1	1Gi	1	2Gi
ME Service	4	4Gi	70	2	12	8	8Gi	48	48Gi	1	2Gi
QoS Service	4	4Gi	70	2	12	8	8Gi	48	48Gi	1	2Gi
5GC Agent	4	4Gi	70	2	12	8	8Gi	48	48Gi	1	2Gi
CCF Client	2	2Gi	70	2	3	4	4Gi	6	6Gi	1	2Gi
Expiry Auditor	4	4Gi	70	2	3	8	8Gi	12	12Gi	1	2Gi
Perf-Info	1	1Gi	1	1	1	1	1Gi	1	1Gi	1	2Gi
App-Info	1	1Gi	1	1	1	1	1Gi	1	1Gi	1	2Gi
Config-Server	1	1Gi	1	1	1	1	1Gi	1	1Gi	1	2Gi
NRF Client	1	1Gi	1	1	1	1	1Gi	1	1Gi	1	2Gi
Traffic Influence	4	4Gi	70	2	12	8	8Gi	48	48Gi	1	2Gi
Diameter Gateway	4	4Gi	70	2	2	8	8Gi	8	8Gi	1	2Gi
Device Trigger	1	1Gi	70	1	1	1	1Gi	1	1Gi	1	1Gi
Pool Manager	4	4Gi	70	1	1	4	4Gi	4	4Gi	1	1Gi
MSISDNless MO SMS	4	4Gi	70	1	12	4	4Gi	4	4Gi	4	4Gi
Console Data Service	**4**	**4Gi**	**70**	**1**	**12**	**4**	**4Gi**	**4**	**4Gi**	**4**	**4Gi**

> ⓘ **Note**
>
> The debug container resources are optional. If you are using the debug container, then the **CPU Request and Limit for Debug Container** and **Memory Request and Limit for Debug Container** values must be included to the minimum and maximum resources for NEF services.

Table 1-8   Resource Requirements for CAPIF Services

Microservice Name	CPU Request and limit per POD (A)	Memory Request and limit per POD (B)	Scaling Criteria CPU Usage %	Default POD Count (C)	Maximum POD count with scaling (D)	Minimum CPU Total for Default PODs (A*C)	Minimum Memory Total for Default PODs (B*C)	Maximum CPU Total for all PODs (with full scaling and surge) (A*D)	Maximum Memory Total for all PODs (with full scaling and surge) (B*D)	CPU Request and limit for Debug Container (Optional)	Memory Request and limit for Debug Container (Optional)
API Manager	4	4Gi	70	2	3	8	8Gi	12	12Gi	1	2Gi
AF Manager	4	4Gi	70	2	3	8	8Gi	12	12Gi	1	2Gi
Event Manager	4	4Gi	70	2	2	8	8Gi	8	8Gi	1	2Gi
External Ingress Gateway	4	4Gi	70	2	5	8	8Gi	20	20Gi	1	2Gi
External Egress Gateway	4	4Gi	70	2	5	8	8Gi	10	20Gi	1	2Gi
Network Ingress Gateway	4	4Gi	70	2	5	8	8Gi	20	20Gi	1	2Gi
Network Egress Gateway	4	4Gi	70	2	5	8	8Gi	20	20Gi	1	2Gi
Console Data Service	**4**	**4Gi**	**70**	**1**	**12**	**4**	**4Gi**	**4**	**4Gi**	**4**	4Gi

> ⓘ **Note**
>
> The debug container resources are optional. If you are using the debug container, then the **CPU Request and Limit for Debug Container** and **Memory Request and Limit for Debug Container** values must be included to the minimum and maximum resources for CAPIF services.

2
NEF Features

This chapter lists the added or updated features in release 24.2.x. For more information about the features, see *Oracle Communications Cloud Native Core, Network Exposure Function User Guide*.

Release 24.2.2

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

Release 24.2.1

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

Release 24.2.0

Network Exposure Function includes the following features or enhancements:

- **Deployment in OCI:**
  Oracle Cloud Infrastructure (OCI) is a set of complementary cloud services that enable you to build and run a range of applications and services in a High Availability (HA) hosted environment. NEF can be integrated into the OCI using the OCI Adaptor.

  OCI Adaptor provides a smooth integration to NEF observability and monitoring modules with OCI observability and management, enabling the users to have access of alerts, metrics, and KPIs on the OCI platform.

  For more information on deploying NEF in OCI, see *Oracle Communications Cloud Native Core, Network Exposure Function User Guide*, *Oracle Communications Cloud Native Core, Network Exposure Function Installation, Upgrade, and Fault Recovery Guide*, *Oracle Communications Cloud Native Core, Network Exposure Function Troubleshooting Guide* and *Oracle Communications Cloud Native Core, OCI Adaptor Deployment Guide*.

- **CAPIF Integration with the CNC Console**
  The integration of CAPIF with the CNC Console enables you to configure and modify different services and features using the CNC Console.

  For more information, see "Configuring Network Exposure Function using the CNC Console" in *Oracle Communications Cloud Native Core, Network Exposure Function User Guide* and *Oracle Communications Cloud Native Core, Network Exposure Function REST Specification Guide*.

- **Support for CNC Top Level MIB in NEF**
  There are two MIB files which are used to generate the traps. These files are packaged and shared to the user in order to fetch the traps in their environment.

  For more information, see "Configuring Alert Manager for SNMP Notifier" in *Oracle Communications Cloud Native Core, Network Exposure Function User Guide*.

For more detailed information about the features, see *Oracle Communications Cloud Native Core, Network Exposure Function User Guide*.

2.1 ATS Features

This section lists the added or updated NEF ATS features in release 24.2.x.

Release 24.2.2

There are no new NEF ATS features or enhancements in this release.

Release 24.2.1

There are no new NEF ATS features or enhancements in this release.

Release 24.2.0

There are no new NEF ATS features or enhancements in this release.

For more information about the features, see the 'ATS Framework Features' section in *Oracle Communications Cloud Native Core, Automated Testing Suite Guide*.

3

Supported Upgrade and Rollback Paths

This chapter lists the supported upgrade and rollback paths in release 24.2.x. For more information about upgrade and rollback, see *Oracle Communications Cloud Native Core, Network Exposure Function Installation, Upgrade, and Fault Recovery Guide*.

Release 24.2.2

The following table lists the supported upgrade paths in this release:

Table 3-1   Supported Upgrade Paths

Source Release	Target Release
24.1.x	24.2.2
23.4.x	24.2.2

Upgrade Impact

There is no upgrade impact in this release.

The following table lists the supported rollback paths in this release:

Table 3-2   Supported Rollback Paths

Source Release	Target Release
24.2.2	24.1.x
24.2.2	23.4.x

Rollback Impact

There is no rollback impact in this release.

Release 24.2.1

The following table lists the supported upgrade paths in this release:

Table 3-3   Supported Upgrade Paths

Source Release	Target Release
24.1.x	24.2.1
23.4.x	24.2.1

Upgrade Impact

There is no upgrade impact in this release.

The following table lists the supported rollback paths in this release:

Table 3-4   Supported Rollback Paths

Source Release	Target Release
24.2.1	24.1.x
24.2.1	23.4.x

Rollback Impact

There is no rollback impact in this release.

Release 24.2.0

The following table lists the supported upgrade paths in this release:

Table 3-5   Supported Upgrade Paths

Source Release	Target Release
24.1.x	24.2.0
23.4.x	24.2.0

Upgrade Impact

There is no upgrade impact in this release.

The following table lists the supported rollback paths in this release:

Table 3-6   Supported Rollback Paths

Source Release	Target Release
24.2.0	24.1.x
24.2.0	23.4.x

Rollback Impact

There is no rollback impact in this release.

4

Configuration

This chapter lists the configuration changes in release 24.2.x.

4.1 Helm

This section lists the Helm parameter changes in release 24.2.x. For more information about the Helm parameters, see *Oracle Communications Cloud Native Core, Network Exposure Function Installation, Upgrade, and Fault Recovery Guide*.

Release 24.2.2

There is no change in the Helm parameters in this release.

Release 24.2.1

There is no change in the Helm parameters in this release.

Release 24.2.0

The following Helm parameters are added in this release:

- `global.commonCfg`
- `global.privilegedDbCredSecretName`
- `global.dbCredSecretName`
- `global.commonCfg.hookImage.name`
- `global.commonCfg.hookImage.tag`
- `global.commonCfg.hookImage.pullPolicy`
- `global.client.enable`
- `global.client.pollingInterval`
- `global.server.svcName`
- `global.server.port`

4.2 REST API

This section lists the REST API changes in release 24.2.x. For more information about the REST APIs, see *Oracle Communications Cloud Native Core, Network Exposure Function REST Specification Guide*.

Release 24.2.2

There are no REST API changes in this release.

Release 24.2.1

There are no REST API changes in this release.

Release 24.2.0

Updated the URI and Example for the following REST APIs in this release:

Table 4-1   URI and Examples

REST API	URI	Example
Fetching Logging Data	`{apiRoot}/nef/nf-common-component/v1/{serviceName}/logging`	`{apiRoot}/nef/nf-common-component/v1/monitoringevents/logging`
Fetch Timeout Data	`{apiRoot}/nef/nf-common-component/v1/{serviceName}/timeout`	`{apiRoot}/nef/nf-common-component/v1/monitoringevents/timeout`
Fetch GMLC Configuration	`{apiRoot}/nef/nf-common-component/v1/monitoringevents/gmlcconfigs`	`{apiRoot}/nef/nf-common-component/v1/monitoringevents/gmlcconfigs`
Fetch AF Service ID List	`{apiRoot}/nef/common-component/v1/global/afServiceIdList`	`{apiRoot}/nef/common-component/v1/global/afServiceIdList`
Fetch Global Configurations	`{apiRoot}/nef/nf-common-component/v1/globaloptions`	`{apiRoot}/nef/nf-common-component/v1/globaloptions`
Add Service ID List	`{apiRoot}/nef/common-component/v1/global/afServiceIdList/{afServiceId}`	`{apiRoot}/nef/common-component/v1/global/afServiceIdList/334`
Delete Service ID List	`{apiRoot}/nef/common-component/v1/global/afServiceIdList/{afServiceId}`	`{apiRoot}/nef/common-component/v1/global/afServiceIdList/334`
Fetch SCS Short Message Entity	`{apiRoot}/nef/nf-common-component/v1/global/scsShortMessageEntity`	`{apiRoot}/nef/nf-common-component/v1/global/scsShortMessageEntity`
Update SCS Short Message Entity	`{apiRoot}/nef/nf-common-component/v1/global/scsShortMessageEntity`	`{apiRoot}/nef/nf-common-component/v1/global/scsShortMessageEntity`
Fetch QoS Profiles	`{apiRoot}/nef/common-component/v1/global/qosProfiles`	`{apiRoot}/nef/common-component/v1/global/qosProfiles`

Added the following REST APIs in this release:

- Update GMLC Configuration
- Edit Service ID List
- Update QoS Profiles
- Add QoS Profiles
- Delete QoS Profiles
- Fetch PLMN ID Map
- Add PLMN ID Map
- Edit PLMN ID Map
- Delete PLMN ID Map
- Fetch TAI Map
- Add to TAI MAP

- Edit TAI MAP

- Delete from TAI Map

- Fetch ECGI Map

- Add to ECGI Map

- Edit ECGI Map

- Delete from ECGI Map

- Fetch NCGI Map

- Add to NCGI Map

- Edit NCGI Map

- Delete from NCGI Map

- Fetch GNBID Map

- Add to GNBID Map

- Edit GNBID Map

- Delete from GNBID Map

- Fetch globalRanNodeId Map

- Add to globalRanNodeId Map

- Edit globalRanNodeId Map

- Delete from globalRanNodeId Map

- Fetch geoZoneIdToSpatialValidity Map

- Add to geoZoneIdToSpatialValidity Map

- Edit geoZoneIdToSpatialValidity Map

- Delete from geoZoneIdToSpatialValidity Map

- Fetching Logging Data

- Updating Logging Data

- Fetching Published Services from CAPIF

- Create Discovery Group

- Get Discovery Group

- Get All Discovery Group

- Delete Discovery Group

- Pre-provision the Invoker

- Get Invoker Details

- Get All Invoker Details

- Delete Invoker

- Get Access Token

- Update Access Token Expiry Time

5
Observability

This chapter lists the observability changes in release 24.2.x.

5.1 Metrics

This section lists the added or updated metrics in release 24.2.x. For more information about metrics, see *Oracle Communications Cloud Native Core, Network Exposure Function User Guide*.

> ⓘ **Note**
>
> If any specific KPI is required, create the KPI on grafana dashboard as per requirement from this metrics mentioned in the *Oracle Communications Cloud Native Core, Network Exposure Function User Guide*.

NEF 24.2.2

There are no updates to metrics in this release.

NEF 24.2.1

There are no updates to metrics in this release.

NEF 24.2.0

There are no updates to metrics in this release.

5.2 Alerts

This section lists the added or updated alerts in release 24.2.x. For more information about alerts, see *Oracle Communications Cloud Native Core, Network Exposure Function User Guide*.

NEF 24.2.2

There are no alerts added or updated for this release.

NEF 24.2.1

There are no alerts added or updated for this release.

NEF 24.2.0

The following alerts are added or updated in this release:

- OccapifTotalExternalIngressTrafficRateAboveMinorThreshold
- OccapifTotalNetworkIngressTrafficRateAboveMinorThreshold
- OccapifTotalExternalIngressTrafficRateAboveMajorThreshold

- OccapifTotalNetworkIngressTrafficRateAboveMajorThreshold
- OccapifTotalExternalIngressTrafficRateAboveCriticalThreshold
- OccapifTotalNetworkIngressTrafficRateAboveCriticalThreshold
- OccapifExternalIngressTransactionErrorRateAboveZeroPointOnePercent
- OccapifNetworkIngressTransactionErrorRateAboveZeroPointOnePercent
- OccapifExternalIngressTransactionErrorRateAbove1Percent
- OccapifNetworkIngressTransactionErrorRateAbove1Percent
- OccapifExternalIngressTransactionErrorRateAbove10Percent
- OccapifNetworkIngressTransactionErrorRateAbove10Percent
- OccapifExternalIngressTransactionErrorRateAbove25Percent
- OccapifNetworkIngressTransactionErrorRateAbove25Percent
- OccapifExternalIngressTransactionErrorRateAbove50Percent
- OccapifNetworkIngressTransactionErrorRateAbove50Percent
- OcnefTotalExternalIngressTrafficRateAboveMinorThreshold
- OcnefTotalFivegcIngressTrafficRateAboveMinorThreshold
- OcnefTotalExternalIngressTrafficRateAboveMajorThreshold
- OcnefTotalFivegcIngressTrafficRateAboveMajorThreshold
- OcnefTotalExternalIngressTrafficRateAboveCriticalThreshold
- OcnefTotalFivegcIngressTrafficRateAboveCriticalThreshold
- OcnefExternalIngressTransactionErrorRateAboveZeroPointOnePercent
- OcnefFivegcIngressTransactionErrorRateAboveZeroPointOnePercent
- OcnefExternalIngressTransactionErrorRateAbove1Percent
- OcnefFivegcIngressTransactionErrorRateAbove1Percent
- OcnefExternalIngressTransactionErrorRateAbove10Percent
- OcnefFivegcIngressTransactionErrorRateAbove10Percent
- OcnefExternalIngressTransactionErrorRateAbove25Percent
- OcnefFivegcIngressTransactionErrorRateAbove25Percent
- OcnefExternalIngressTransactionErrorRateAbove50Percent
- OcnefFivegcIngressTransactionErrorRateAbove50Percent

The following alerts are removed in this release:

- OccapifTotalIngressTrafficRateAboveMinorThreshold
- OccapifTotalIngressTrafficRateAboveMajorThreshold
- OccapifTotalIngressTrafficRateAboveCriticalThreshold
- OccapifTransactionErrorRateAbove0.1Percent
- OccapifTransactionErrorRateAbove1Percent
- OccapifTransactionErrorRateAbove10Percent
- OccapifTransactionErrorRateAbove25Percent

- OccapifTransactionErrorRateAbove50Percent
- OcnefTotalIngressTrafficRateAboveMinorThreshold
- OcnefTotalIngressTrafficRateAboveMajorThreshold
- OcnefTotalIngressTrafficRateAboveCriticalThreshold
- OcnefTransactionErrorRateAbove0.1Percent
- OcnefTransactionErrorRateAbove1Percent
- OcnefTransactionErrorRateAbove10Percent
- OcnefTransactionErrorRateAbove25Percent
- OcnefTransactionErrorRateAbove50Percent