Oracle® Communications

Network Analytics Suite Licensing Information User Manual

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Oracle Communications Network Analytics Suite Licensing Information User Manual, Release 23.2.0

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Licensing Information

Refer to the table below for information on:

- Description of Product Editions and Permitted Features
- Prerequisite Products
- Entitled Products and Restricted Use Licenses

2.1 NWDAF Licensing Information

Refer to the table below for information on:

- Description of Product Editions and Permitted Features
- Prerequisite Products
- Entitled Products and Restricted Use Licenses

Table 2-1 Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Networks Data Analytics Function	Oracle Communications NWDAF, Device State – 25K Active Subscribers	**Description**: The Network Data Analytics Function (NWDAF) standardizes and streamlines how data is collected and how the analytical insights drawn from the network are consumed and distributed across the network to support 5G network operations. It provides standard interfaces for 5G core network functions to deliver and receive (statistical and predictive) performance data and other data sets to and from the NWDAF using a publish/ subscribe or request/response model. Overall, it allows Customers to drive the analytic-driven and closed-loop automation of network functions. It supports the following analytic id's/ categories: • UE Mobility Information • UE Abnormal Behavior Information • UE Communication Information **Prerequisites**: None **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: NWDAF counts unique device identifiers as it processes messages.

Table 2-1 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Networks Data Analytics Function	Oracle Communications NWDAF, Network State – 25K Active Subscribers	**Description**: The Network Data Analytics Function (NWDAF) standardizes and streamlines how data is collected and how the analytical insights drawn from the network are consumed and distributed across the network to support 5G network operations. It provides standard interfaces for 5G core network functions to deliver and receive (statistical and predictive) performance data and other data sets to and from the NWDAF using a publish/ subscribe or request/response model. Overall, it allows customers to drive the analytic-driven and closed-loop automation of network functions. It supports the following analytic id's/ categories: • Slice Load Level Information • NF Load Information • Network Performance Information • QOS Sustainability **Prerequisites**: None **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: NWDAF counts unique device identifiers as it processes messages.

Table 2-1 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Networks Data Analytics Function	Oracle Communications Cloud Native Core, NWDAF, Service Experience – per 25K Active Subscribers	The Network Data Analytics Function (NWDAF) standardizes and streamlines how data is collected and how the analytical insights drawn from the network are consumed and distributed across the network to support 5G network operations. It provides standard interfaces for 5G core network functions to deliver and receive (statistical and predictive) performance data and other data sets to and from the NWDAF using a publish/ subscribe or request/response model. Overall, it allows customers to drive the analytics-driven and closed-loop automation of network functions. It supports the following analytics id's/categories: • Observed Service Experience Information • User Data Congestion Information **Prerequisites**: None **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: NWDAF counts unique device identifiers as it processes messages.

Note:

Oracle Java SE, used by NWDAF, must be downloaded separately from the Oracle Software Delivery Cloud as Oracle Java SE is not a part of the NWDAF download package. For more information on licensing, refer to the Oracle Java SE End-User Licensing Agreement .

> **Note:**
>
> Oracle CNE Infrastructure, used by NWDAF, must be downloaded separately from the Oracle Software Delivery Cloud as Oracle CNE Infrastructure is not a part of the NWDAF download package. For more information on licensing, refer to the Oracle CNE Infrastructure End-User Licensing Agreement .

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2.2 Data Director Licensing Information

Refer to the table below for information on:

- Description of Product Editions and Permitted Features
- Prerequisite Products
- Entitled Products and Restricted Use Licenses

Table 2-2 Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed	**Description**: Data Director is a product within the Oracle Communications Network Analytics Suite. It collects and aggregates the 5G SBI network traffic mirrored from Service Communication Proxy (SCP) network function and delivers the enriched traffic to third-party monitoring or probe tools for service monitoring/ assurance or analytics purposes The Data Director maintains e2e security of SBI messages and delivers the data through standardized interfaces. **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed. • Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes messages.

Table 2-2 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed	**Description**: Data Director is a product within the Oracle Communications Network Analytics Suite. It collects and aggregates the 5G SBI network traffic mirrored from Network Repository Function (NRF) network function and delivers the enriched traffic to third-party monitoring or probe tools for service monitoring/ assurance or analytics purposes. The Data Director maintains e2e security of SBI messages and delivers the data through standardized interfaces. **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed. • Oracle Communications Cloud Native Core, Network Repository Function - 25K Active Subscribers **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes messages.

Table 2-2 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed	**Description**: Data Director is a product within the Oracle Communications Network Analytics Suite. It collects and aggregates the 5G SBI network traffic mirrored from Security Edge Protection Proxy (SEPP) network function and delivers the enriched traffic to third-party monitoring or probe tools for service monitoring/assurance or analytics purposes. The Data Director maintains e2e security of SBI messages and delivers the data through standardized interfaces. **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed. • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes messages.

Table 2-2 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Service Communication Proxy Advanced Packet Processing - Network-Wide Message per Second	**Description**: This subproduct adds the following optional features to theOracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed • Data Replication • Synthetic L2/L7 packet over TCP/TLS tunnel to 3rd party tools • Data Filtration **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Service Communication Proxy Advanced Packet Processing. • Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes messages.

Table 2-2 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Network Repository Function Advanced Packet Processing - Network-Wide Message per Second	**Description**: This subproduct adds the following optional features to theOracle Communications Network Analytics Data Director, Network Repository Function Data Feed • Data Replication • Synthetic L2/L7 packet over TCP/TLS tunnel to 3rd party tools • Data Filtration **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Network Repository Function Advanced Packet Processing. • Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes messages.

Table 2-2 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Advanced Packet Processing - Network-Wide Message per Second	**Description**: This subproduct adds the following optional features to theOracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed • Data Replication • Synthetic L2/L7 packet over TCP/TLS tunnel to 3rd party tools • Data Filtration **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Advanced Packet Processing. • Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes messages.

Note:

MySQL Enterprise Edition needs to be downloaded separately from the Oracle Software Delivery Cloud as it is not a part of the Data Director download package.

- For MySQL license manual, click here.

Note:

Oracle Java SE, used by Data Director, must be downloaded separately from the Oracle Software Delivery Cloud as Oracle Java SE is not a part of the Data Director download package. For more information on licensing, refer to the Oracle Java SE End-User Licensing Agreement .

Note:

Oracle CNE Infrastructure, used by Data Director, must be downloaded separately from the Oracle Software Delivery Cloud as Oracle CNE Infrastructure is not a part of the Data Director download package. For more information on licensing, refer to the Oracle CNE Infrastructure End-User Licensing Agreement .

Note:

Data Director uses both versions of Oracle Coherence (Community Edition [CE] and Enterprise edition [EE]). For more information on their licensing, please refer to the license document/release notes:

- Oracle Coherence Enterprise Edition
- Oracle Coherence Community Edition

3
Third-Party Notices and/or Licenses

3.1 Commercial Software

Commercial software products or components distributed in Oracle Communications Cloud Native Core are identified in the following table along with the applicable licensing information.

Vendor	Product(s) and Version(s)	Licensing Description/ Disclaimer
N/A	N/A	N/A

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- Development and Engineering Legal
- 500 Oracle Parkway, 10th Floor
- Redwood Shores, CA 94065

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The sections below identify the open source components used by Oracle Communications NWDAF. The licensing information can be found in section **NWDAF Licensing Information.**

Table 3-1 License Information

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Armin Ronacher	flask-sqlalchemy 3.0.3	Armin Ronacher
Core Mesa Team and contributors	Mesa 1.2.1	Core Mesa Team and contributors
Encode OSS Ltd	uvicorn 0.17.6	Encode OSS Ltd
FasterXML, LLC	jackson-dataformat-yaml 2.13.2	FasterXML, LLC
Igor Sysoev; Nginx	Nginx 1.20.1-1.0.1	Igor Sysoev; Nginx
Jonathan Halterman	modelmapper-core 3.1.0	----------(separator)---------- modelmapper Copyright (C) 2008 Google Inc. Copyright 2011 the original author or authors. Copyright 2011-2014 the original author or authors. Copyright 2012 the original author or authors. Copyright 2013 the original author or authors. Copyright 2014 the original author or authors. Copyright 2017 the original author or authors. Copyright 2018 the original author or authors. Copyright 2021 the original author or authors. Copyright 2022 the original author or authors. ---------- (separator)---------- Apache License Version 2.0

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MapLibre	MapLibre GL 2.4.0	MapLibre
Metamarkets Group Inc.	pydruid 0.6.3	Metamarkets Group Inc.
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Microsoft Corporation	onnxruntime python 1.10.0	Microsoft Corporation
Nathan Voxland	liquibase-core 4.10.0	Nathan Voxland
NumPy Developers	NumPy 1.22.3	NumPy Developers
Pivotal Software, Inc	Spring Boot Starter Quartz 2.6.7	[Automatically populated from the Public License field]
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Table 3-1 (Cont.) License Information

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Python Software Foundation	python-dateutil 2.8.2	Python Software Foundation

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Salvatore Sanfilippo	Redis 7.0.9	Redis
Saurabh Kumar	python-dotenv 0.20.0	python-dotenv
Sebastián Ramírez	Fastapi 0.78.0	Development is representing that the specific version of the third-party component covered by this 3PLTA record (the "Software") and any associated indirect dependencies satisfy the conditions for pre-approval of a distributed use case as documented in Oracle's Open Source Approval Policy. Development is also representing that it has searched the Software and any associated indirect dependencies, including any readme, notice, license or text files, and confirmed that: (a) the Software is licensed exclusively under the MIT license; and (b) the associated indirect dependencies, if any, are licensed exclusively under one or more of the licenses eligible for pre-approval of distributed use as documented in Oracle's Open Source Approval Policy. The MIT license terms are summarized below. Terms 1. Use: Oracle may freely use, modify and distribute the Software. 2. Warranty: none. 3. Limitation of Liability: Authors have no liability. Oracle maintains unlimited direct and indirect liability. If the Software infringes a third party's IP rights, Oracle could be liable for all damages without recourse against the authors. 4. Attribution: Development must ensure that a complete copy of the license terms and copyright notices identified above in the Attribution Requirement Note field are included in the documentation for each Oracle product that includes the Software pursuant to the requirements specified in the Oracle Product Documentation Policy.

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Table 3-1 (Cont.) License Information

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Armin Ronacher

python-flask-sqlalchemy

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typing_extensions A. HISTORY OF THE SOFTWARE

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Michael Bayer

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jni:jar:1.5.0-4:runtime com.fasterxml.jackson.core:jackson-annotations:jar:2.12.3:runtime com.fasterxml.jackson.core:jackson-databind:jar:2.12.3:runtime com.fasterxml.jackson.core:jackson-core:jar:2.12.3:runtime
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python-dotenv

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AE
Zoo Keeper

Top Level Component: apache-zookeeper

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The Velero Contributors

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org.springframework:spring-aop == NAME OF DEPENDENCY 6
org.springframework:spring-beans == NAME OF DEPENDENCY 7
org.springframework:spring-expression == NAME OF DEPENDENCY 8
org.springframework:spring-messaging == NAME OF DEPENDENCY 9
org.springframework.boot:spring-boot-starter-validation == NAME OF
DEPENDENCY 10 org.springframework.boot:spring-boot-starter == NAME OF
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