

# **Oracle Utilities Network Management System**

Licensing Information User Manual.

Release 2.5.0.2.5

**F54385-04**

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Oracle Utilities Network Management System Licensing Information User Manual, Release 2.5.0.2.5

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# Chapter 1

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## Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the “Program(s)”). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (<https://edelivery.oracle.com>) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle’s Software Investment Guide (<http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html>), and/or contact the applicable Oracle License Management Services representative listed on <http://www.oracle.com/us/corporate/license-management-services/index.html>.

# Chapter 2

## Licensing Information

Oracle Utilities Network Management System product is comprised of two distinct product suites: Oracle Utilities Outage Management System (OMS) and Oracle Utilities Distribution Management System (DMS). These products each contain a number of optional components with restricted functionality that can only be used if they have been licensed.

### Product Descriptions

Functional Area	Description
Outage Management System Base	<p>The Oracle Utilities Network Management System (NMS) operations model, and tools to support and administrate the model and integration to leading GIS vendors. Core functionality to manage outages, including tracking of outage durations at the customer level, outage causes, and actions taken.</p> <p><b>Includes:</b> Web Workspace, Web Trouble, Model Management, Topology Validation, Configuration Assistant, Generic IVR Adapter, GIS Adapters (Esri, Intergraph, GE Smallworld)</p>
<b>OMS Option:</b> Outage Management Switching and Schematics	<p>Functionality that allows operators to record switching actions electronically via interaction with a map view of the covered service area and operations model.</p> <p>Also the ability to generate schematic diagrams of the major network model elements.</p> <p><b>Includes:</b> Web Switching Management, Schematics (schematica)</p>
<b>OMS Option:</b> Outage Management Adapters	<p>Modules for integrating Oracle Utilities Outage Management System to foreign systems such as CIS, IVR, AMI, AVL, and Mobile systems.</p> <p><b>Includes:</b> Generic IBM MQ Mobile Adapter, MultiSpeak adapter flows for AMI and AVL integration, and SOAP Web Services</p>

Functional Area	Description
<p><b>OMS Option:</b></p> <p>Outage Management Call Center</p>	<p>Tools used to enter calls into the system, easily query status of specific customers, and track the progress of restoration callbacks.</p> <p><b>Includes:</b> Web Call Entry, Web Callbacks</p>
<p><b>OMS Option:</b></p> <p>Outage Management Storm Management</p>	<p>Functionality used to estimate when assessment and restoration will be complete for various types of outages, broken out by section of the distribution network. Ability to forecast the impact of bringing on additional resources, or determining the resource need to meet target objectives.</p> <p><b>Includes:</b> Storm Management</p>
<p><b>OMS Option:</b></p> <p>Outage Management Paging</p>	<p>Functionality used to provide automatic internal notifications from the Oracle Utilities Outage Management System to identify specific customers affected, major outages, beginning and ending of storm events, and status of planned outages.</p> <p><b>Includes:</b> Service Alert</p>
<p><b>OMS Option:</b></p> <p>Network Management Flex OMS Client</p>	<p>A browser-based version of NMS providing core OMS capabilities to take authority, see lists of events and crews within subscribed area, be able to view and update crew statuses and event details, and see a distribution network interactive map with functionality similar to the Operations Mobile Application.</p> <p><b>Note:</b> Flex Operations is not supported on tablets or smartphones.</p> <p><b>Includes:</b> Flex Operations core OMS functions</p>
<p>Distribution Management System Base</p>	<p>The Oracle Utilities Network Management System (NMS) operations model, and tools to support and administrate the model and integration to leading GIS vendors. Functionality that allows operators to record switching actions electronically via interaction with a map view of the covered service area and operations model.</p> <p><b>Includes:</b> Web Workspace, Web Switching Management, Model Management, Topology Validation, Configuration Assistant, GIS Adapters (Esri, Intergraph, GE Smallworld), Schematics (schematica)</p>
<p><b>DMS Option:</b></p> <p>Distribution Management Power Flow</p>	<p>Functionality that provides an integrated three phase unbalanced power flow solution built into the system operator's normal business processes and work flows to provide enhanced decision support.</p> <p><b>Includes:</b> Power Flow, Weather Data Adapter, DERMS Adapter, Profile Adapter</p>

Functional Area	Description
<p><b>DMS Option:</b></p> <p>Distribution Management Advanced Feeder Management</p>	<p>Functionality that allows operators to query the system for recommendations of specific switching situations, including load shed events. The system can present a set of switching actions to address a set objective which the operator can review, modify, and utilize. Also the ability to see hourly peak forecasts for the next 24 hours and daily peak forecast for the remainder of the week to provide advance warning of potential load issues, allowing proactive responses.</p> <p><b>Includes:</b> Suggested Switching, Load Shed &amp; Restoration, Feeder Load Management</p>
<p><b>DMS Option:</b></p> <p>Distribution Management Fault Location Isolation and Service Restoration</p>	<p>Functionality that, based on SCADA triggers such as lockouts and fault indications/location, determine the specific protective device which has cleared a sustained fault, identifies the de-energized sections, and determines the available alternate supplies for re-energization.</p> <p><b>Includes:</b> Fault Location, Isolation, and Service Restoration</p>
<p><b>DMS Option:</b></p> <p>Distribution Management Volt/VAr Optimization</p>	<p>Functionality that helps operators to recognize and be able to affect voltage on the network, utilizing the power of the system to prepare and present recommendations to the operator for action.</p> <p><b>Includes:</b> Network Optimization</p>
<p><b>DMS Option:</b></p> <p>Distribution Management Fault Location Analysis</p>	<p>Functionality that determines the distance downstream of fault measurements where a fault is estimated to have occurred. All potential fault locations are displayed in graphical and tabular formats and the operator can incrementally reject or confirm fault locations as crews provide feedback on fault dispatches.</p> <p><b>Includes:</b> Fault Location Analysis</p>
<p><b>NMS Option:</b></p> <p>SCADA Interface</p>	<p>Functionality that supports bringing in SCADA data via a variety of standards-based adapter options, displaying SCADA Summary data and SCADA Alarms, and leveraging the data in support of DMS applications. Outbound SCADA controls are also supported.</p> <p><b>Includes:</b> SCADA Extensions, SCADA Measurements adapter (scadapop), Generic SCADA Adapter, ICCP Adapter, MultiSpeak SCADA Adapter, OSI SCADA Adapter, SCADA Calculation Engine</p>
<p><b>NMS Option:</b></p> <p>Flex SCADA</p>	<p>Full Distribution SCADA (D-SCADA) application functionality. Requires an additional Live Energy Connect (LEC) license for industrial protocol Front End Processor (FEP) and communications support.</p> <p><b>Includes:</b> Display Editors, Device Commissioning, Measurement/ State Validation, Limits Processing, Calculated Points, Alarms Processing, Sequence of Events, Trending, Logging</p>
<p><b>NMS Option:</b></p> <p>Training Simulator</p>	<p>Functionality that allows a trainer to record scenarios including customer calls, AMI last gasps, and simulated device operations in support of training. Each scenario can be played back for a trainee, paused, modified, and monitored by the trainer.</p> <p><b>Includes:</b> NMS Training Simulator</p>

Functional Area	Description
<p><b>NMS Option:</b></p> <p>Operations Mobile Application</p>	<p>Application for Android, iOS, and Windows devices that allows field personnel to be quickly registered, assigned work, update status, report blocked roads, enter damage assessment details, receive and respond to switching steps, and update basic NMS event information such as ERT, notes, and so forth. REST API also can be used to integrate a 3rd-party mobile solution to NMS.</p> <p><b>Includes:</b> Operations Mobile Application template app, REST API</p>
<p><b>NMS Option:</b></p> <p>Distributed Energy Resource Management</p>	<p>Functionality that enables dispatch of DER through optimized plans (Network Optimization/Suggested Switching/FLISR). Enables Active Network Management Switching. Enables Network Capacity Allocation which manages Distributed Energy Resource markets.</p> <p><b>Includes:</b> Active Network Management</p>
<p><b>NMS Option:</b></p> <p>Network Management Flex NMS Client</p>	<p>An add-on to the Flex OMS Client that provides additional browser-based functionality such as switching management and some other NMS functions beyond the core OMS functions of the Flex OMS Client.</p> <p><b>Note:</b> Flex Operations is not supported on tablets or smartphones.</p> <p><b>Includes:</b> Flex Operations additional NMS functions. Requires Network Management Flex OMS Client.</p>

# License Restrictions Matrix

Oracle Utilities Outage Management System and Oracle Utilities Distribution Management System each contain a number of options whose functionality are restricted, and can only be used if specific options have been licensed.

The table below indicates the options included with or available to each of the listed products.

- ✓ Indicates that the option is included with the product.
- ✓\* Indicates that the option is included with the product, but must be licensed separately. For example, a customer licensing Oracle Utilities Network Management System who wishes to use the Call Center feature must also license the Call Center option. Also, note that Outage Management System Base and Distribution Management System Base are licensed separately

Product/Option	OMS	DMS
Outage Management System Base	✓	
Outage Management Switching and Schematics	✓*	
Outage Management Adapters	✓*	
Outage Management Call Center	✓*	
Outage Management Storm Management	✓*	
Outage Management Paging	✓*	
Network Management Flex OMS Client	✓*	
Distribution Management Base		✓
Distribution Management Power Flow		✓*
Distribution Management Advanced Feeder Management		✓*
Distribution Management Fault Location Isolation and Service Restoration		✓*
Distribution Management Volt/Var Optimization		✓*
Distribution Management Fault Location Analysis		✓*
Distributed Energy Resource Management		✓*
Network Management SCADA	✓*	✓*
Network Management Training Simulator	✓*	✓*
Operations Mobile Application	✓*	✓*
Network Management Flex NMS Client	✓*	✓*
Flex SCADA	✓*	✓*

# Chapter 3

## Third Party Notices

### Bundled Third Party Products

The following table lists third party software bundled with the Oracle Utilities Network Management System release and installed as part of the base product installation.

Vendor	Product	Version
abego	treelayout	1.0.3
ANTLR Project	antlr4	4.9.3
	antlr4-runtime	3.5.2
	ST4	4.3
Apache Software Foundation	Apache Ant	1.10.12
	Apache Ant-Contrib	1.0b3
	Apache Batik SVG Toolkit	1.14
	Apache Commons BeanUtils	1.9.4
	Apache Commons CLI	1.4
	Apache Commons Collections	3.2.2, 4.4
	Apache Commons Compress	1.21
	Apache Commons Configuration2	2.7
	Apache Commons Exec	1.3-2ca7c03
	Apache Commons IO	2.11
	Apache Commons Lang	3.11
	Apache Commons Logging	1.2-f4fdecd
	Apache Commons Math	3.6.1
	Apache Commons Text	1.9
	Apache Curator	5.2.0
Curator-framework	5.2.0	

Vendor	Product	Version
Apache Software Foundation	Apache Curator-recipes	5.2.0
	Apache Curator-x-async	5.2.0
	Apache Jena	3.17.0
	Apache Log4j2	2.17.1
	Apache POI	5.2.1
	Apache Xalan C++	1.12
	Apache Xerces C++	3.2.3
	Apache XmlBeans	5.0.3
Istvan Albert	Altgraph	0.17.2
Markus Bernhardt	proxy-vole	1.0.16
Boost.org	Boost	1.77.0
Nathan Cahill	Split.js	1.6.5
COIN-OR Foundation	CBC	2.10.5
Jason R. Coombs	setuptools	58.5.3
Timothy Crosley	isort	5.10.1
Kim Davies	idna	2.10
Eclipse Foundation	Jakarta Annotations API	2.1.0
	Jakarta JSON Processing	2.0.0
	Jakarta Restful Web Services JAX-RS API	3.0.0
	jersey-client	3.0.4
	jersey-common	3.0.4
	jersey-container-jdk-http	3.0.4
	jersey-ext-entity-filtering	3.0.4
	jersey-hk2	3.0.4
	jersey-media-json-jackson	3.0.4
	jersey-server	3.0.4
FasterXML, LLC	jackson-annotations	2.11.3, 2.13.2
	jackson-core	2.11.3
	jackson-databind	2.11.3
	jackson-module-jaxb-annotations	2.11.3
Free Software Foundation	Bison	3.7.4
Genevia	gSoap	2.8.117

<b>Vendor</b>	<b>Product</b>	<b>Version</b>
Google	Google Guava	30.1
	Gson	2.8.9
gRPC Authors	gRPC-Java	1.44.0
Philip Hazel	PCRE library	8.45
iamkun	dayjs	1.10.6
JGraph Ltd	JGraphX	4.2.2
Jonathan Hedley	jsoup	1.14.3
Kai Toedter	Jcalendar	1.3.2
Stuart Knightley, David Duponchel	JSZipUtils	0.1.0
lighttpd	lighttpd	1.4.61
localForage	localForage	1.9.0
Oliver Moran	jimp	0.16.1
NetCat AG	Reportcat	1.1.1
OWASP Foundation	Java HTML Sanitizer	20211018.2
OWASP Foundation	OWASP Java Encoder Project	1.2.3
The Netty Project	netty-buffer	4.1.70.Final
	netty-codec	4.1.70.Final
	netty-common	4.1.70.Final
	netty-handler	4.1.70.Final
	netty-resolver	4.1.70.Final
	netty-transport	4.1.70.Final
	netty-transport-native-epoll	4.1.70.Final
The pip developers	pip	21.3.1
Andrey Petrov	urllib3	1.26.7
Python Software Foundation	Python	3.10.0
PROJ	PROJ	8.2.1
Proj4j	Proj4j	1.1.4
QOS.ch	SLF4J	1.7.36
	slf4j-api	1.7.36
Kenneth Reitz	requests	2.26.0

Vendor	Product	Version
Johann C. Rocholl, Florent Xicluna, and Ian Lee	pycodestyle	2.8.0
Douglas C. Schmidt	ACE	7.0.4
Singular Systems	JEP	2.4.1
Steven Sanderson	Knockout.js	3.5.1
SQLite	SQLite	3.38
Anthony Tuininga	cx_Oracle	8.3.0
unicode.org	icu4j	69.1
Vanderbilt University	The ACE Orb (TAO)	3.0.4

## Required Unbundled Oracle and Third Party Products

The following table lists non-NMS Oracle and third party software that are required for specific product modules of the Oracle Utilities Network Management System release, but not bundled with the released software. These products must be separately installed by the end user as part of the base product installation. Some products also require separate licenses as noted.

Vendor	Product	Version	Notes
Oracle	Active Data Guard	19.3+	Required for High Availability. This is a licensed option to the Oracle RDBMS Enterprise Edition.
Oracle	Oracle Analytics Server	5.9	Used for business intelligence reports and for printing and e-mailing web switching plans.
Oracle	Enterprise Manager	13.4	Required for High Availability.
Oracle	Java Developer Kit (JDK)	1.8.0_321+	Used by Java GUI components and web-service based interfaces (Client and Server side)
			<ul style="list-style-type: none"> <li>64-bit Java is required for most NMS models. 32-bit Java may be sufficient for some non-production NMS environments.</li> </ul>
Oracle	Live Energy Connect	7.1+	Needed for the SCADA Adapter
Oracle	Oracle Database Lifecycle Management Pack	13.4	Required for High Availability. This is a licensed option to the Oracle Enterprise Manager.
Oracle	Oracle RDBMS Enterprise Edition	19.3+	Required for core Oracle Utilities Network Management System functionality.

Vendor	Product	Version	Notes
Oracle	Oracle WebLogic Server Standard, Enterprise, or Suite Editions 12c	12.2.1.4+	Used by Java GUI components and web-service based interfaces
Oracle	Site Guard	13.4	Required for High Availability. This is included in the licenses for Oracle Database Lifecycle Management Pack and WebLogic Server Management Pack Enterprise Edition.
Oracle	WebLogic Server Management Pack Enterprise Edition	13.4	Required for High Availability. This is a licensed option to the Oracle Enterprise Manager.
Apache	ZooKeeper	3.6.2	Used by the NMS Monitor component of High Availability
Esri	ArcGIS/ArcFM on SDE, Personal GDBs in Access, File GDBs, and Personal SDE / SqlServerExpress	10.x	Esri GIS
GE	Smallworld GIS	4.x	Smallworld GIS
Google	Google Chrome	98+	Used to display online help and when using Java Web Start to download the NMS Java client applications.  Also supported for the Flex Operations application as well as for installing the Operations Mobile Application PWA app on a device.
Grzegorz Kowal	Launch4j Executable Wrapper	3.14	Used with NSIS to install standalone Java client applications from the Configuration Assistant.
IBM	MQ	8.0.0.4	Needed for Generic IBM MQ Adapters
Intergraph	G/Electric GIS	9.3.x, 10.x	Intergraph GIS
Microsoft	Edge (Chromium)	98+	Used to display online help and when using Java Web Start to download the NMS Java client applications.  Also supported for the Flex Operations application as well as for installing the Operations Mobile Application PWA app on a device.

Vendor	Product	Version	Notes
Microsoft	Visual Studio	V2017+	Required to develop Operations Mobile Application for Windows 10 APP platform
Microsoft	Windows	10 (64-bit)	Used to run client applications.
Mozilla	Firefox	91+	Used to display online help and when using Java Web Start to download the NMS Java client applications.  Also supported for the Flex Operations application.
Nullsoft	NSIS (Nullsoft Scriptable Install System)	3.08	Used with Launch4j to install standalone Java client applications from the Configuration Assistant.
The OpenSSL Project	OpenSSL	1.1.11	Used for secure communication between SwService (used in CVR and FLISR) and WebLogic server

### Notes on Non-NMS Oracle and Third Party Products:

- For a full explanation of Java version support for NMS applications, please refer to the following KM support article (Doc ID 1992766.1) : <https://support.oracle.com/rs?type=doc&id=1992766.1>
- Oracle WebLogic comes in Standard Edition (SE), Enterprise Edition (EE), and Suite. WebLogic is an additional license that is required for NMS; any of the three options can be used. However, WebLogic Server EE and WebLogic Suite support clustering, while WebLogic Server SE does not.
- Oracle RDBMS Enterprise Edition and Oracle BI Publisher are separately licensed modules from Oracle.
- Oracle Operations Mobile Application is a separately licensed module from Oracle.
- IBM MQ ICCP requires a separate third party license to be acquired by Oracle customers.
- A plus sign (+) after the fourth digit in the version number indicates that this and all versions of the JRE/JDK extensions are supported. For example, 1.8.0\_77+ means that 1.8.0\_77 and any higher 1.8.0\_xx versions are supported.

# Chapter 4

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## Third Party Licenses and Copyright Notices

This chapter provides licensing and copyright information associated with the open source third party products installed with the Oracle Utilities Network Management System. See [Chapter 3, Third Party Notices](#), for specific 3rd Party product version numbers supported with this release.

- [Licenses](#)
  - [Components Released Under the ACE / TAO License](#)
  - [ANTLR](#)
  - [Components Released Under Apache Licenses](#)
  - [Components Released Under the BSD 2-clause or 3-clause License](#)
  - [Components Released Under the Eclipse 1.0 License](#)
  - [Components Released Under the GPL v2.0 License](#)
  - [Components Released Under the MIT License](#)
  - [boost](#)
  - [gsoap](#)
  - [icu4j](#)
  - [JGraphX](#)
  - [PROJ](#)
  - [Proj4J](#)
  - [Python](#)
  - [SQLite](#)
  - [treelayout](#)
- [Copyright Notices](#)

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# Licenses

## Components Released Under the ACE / TAO License

- ACE

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DOC software is Y2K-compliant, as long as the underlying OS platform is Y2K-compliant. Likewise, DOC software is compliant with the new US daylight savings rule passed by Congress as "The Energy Policy Act of

2005," which established new daylight savings times (DST) rules for the United States that expand DST as of March 2007. Since DOC software obtains time/date and calendaring information from operating systems users will not be affected by the new DST rules as long as they upgrade their operating systems accordingly.

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## Components Released Under Apache Licenses

### Apache Components

- Apache Ant
- Apache Ant-Contrib
- Apache Batik SVG Toolkit
- Apache Commons BeanUtils
- Apache Commons CLI
- Apache Commons Collections
- Apache Commons Compress
- Apache Commons Configuration
- Apache Commons Exec
- Apache Commons HttpClient
- Apache Commons IO
- Apache Commons Lang
- Apache Commons Logging
- Apache Commons Math
- Apache Curator
- Apache Curator-framework
- Apache Curator-recipes
- Apache Curator-x-async
- Apache Jena
- Apache Log4j
- Apache POI
- Apache Xalan C++
- Apache Xerces C++
- Apache XmlBeans
- Apache XML Commons External
- Apache Zookeeper

### Other Components

- deep-equals
- gRPC-Java
- Gson
- Guava
- jackson-annotations
- jackson-core
- jackson-databind
- jackson-module-jaxb-annotations
- Java HTML Sanitizer
- JIntellitype
- localForage
- netty-buffer
- netty-codec
- netty-common
- netty-handler
- netty-resolver
- netty-transport
- netty-transport-native-epoll
- proxy-vole
- requests

```
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