

# **Oracle Utilities Network Management System**

Licensing Information User Manual

Release 2.4.0.0.0

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# Contents

## Chapter 1

Introduction .....	1-1
--------------------	-----

## Chapter 2

Licensing Information .....	2-1
Product Descriptions .....	2-1
License Restrictions Matrix .....	2-3

## Chapter 3

Third Party Notices .....	3-1
Bundled Third Party Products .....	3-1
Required Unbundled Oracle and Third Party Products.....	3-2

## Chapter 4

Third Party Licenses .....	4-1
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# Chapter 1

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## Introduction

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# 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	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.
OMS Option: Outage Management Switching and Schematics	Functionality that allows operators to record switching actions electronically via interaction with a map view of the covered service area and operations model.
OMS Option: Outage Management Adapters	Modules for integrating Oracle Utilities Outage Management System to foreign systems such as CIS, IVR, AMI, AVL, and Mobile systems.
OMS Option: Outage Management Call Center	Tools used to enter calls into the system, easily query status of specific customers, and track the progress of restoration callbacks.
OMS Option: Outage Management Storm Management	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.
OMS Option: Outage Management Paging	Functionality used to provide automatic 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.

Functional Area	Description
Distribution Management System Base	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.
DMS Option: Distribution Management Power Flow	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.
DMS Option: Distribution Management Advanced Feeder Management	Functionality that allows operators to query the system for recommendations of specific switching situations. 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.
DMS Option: Distribution Management Fault Location Isolation and Service Restoration	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.
DMS Option: Distribution Management Volt/VAr Optimization	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.
DMS Option: Distribution Management Fault Location Analysis	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.
NMS Option: SCADA	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.
NMS Option: Training Simulator	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.
NMS Option: Operations Mobile Application	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.
NMS Option: Extractors and Schema	Processes used to extract and load data for use in business intelligence applications.
NMS Option: Outage Analytics	Oracle Utilities Outage Analytics is a comprehensive collection of pre-built OBIEE based dashboards and answers that help to measure and monitor critical metrics that are related to Oracle Utilities Network Management System. The pre-built dashboards are focused on both near real-time and historical reporting. Outage analytics supports reporting on IEEE 1366 based metrics such as SAIDI, SAIFI, CAIDI, MAIFI, CEMI and others.

# 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	✓*	
Option: Outage Management Paging	✓*	
Option: Outage Analytics	✓*	✓*
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		✓*
NMS Option: SCADA	✓*	✓*
NMS Option: Training Simulator	✓*	✓*
NMS Option: Operations Mobile Application	✓*	✓*
NMS Option: Extractors and Schema	✓*	✓*
NMS Option: Outage Analytics	✓*	✓*

# 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
Apache Software Foundation	Apache Xerces C++	3.2.1
	Apache Xalan C++	1.11
	Apache Ant	1.10.3
	Apache Batik	1.10
	Apache Commons Lang	2.6, 3.3.1
	Apache Commons Configuration	1.6
	Apache Commons BeanUtils	1.9.1
	Apache Commons Codec	1.3
	Apache Commons Collections	3.2.2, 4.4.1
	Apache Commons Digester	1.7
	Apache Commons HttpClient	3.1
	Apache Log4j	2.9.1
Autodesk	Csmapi	14.05
Bernd Rosstauscher	proxy-vole	20131209
Boost.org	Boost	1.60.0
COIN-OR Foundation	CBC	2.9.9
Genevia	Gsoap	2.8.29
Google	Google Guava	23.6
Gson	Gson	2.7
Hewlett Packard	Jena	2.6.4
JGraph Ltd	JGraphX	1.10.3.2
John DeRegnaucourt	deep-equals	1.7
jQuery Foundation	jQuery	2.1.4
jQuery Foundation	jQuery Mobile	1.4.5



<b>Vendor</b>	<b>Product</b>	<b>Version</b>
KaiToedter	Jcalendar	1.3.2
lighttpd	lighttpd	1.4.50
Louis K. Thomas	SendSignal	1.0
NetCat AG	Reportcat	1.1.1
OWASP Foundation	Java HTML Sanitizer	20160413.1
Philip Hazel	PCRE library	8.37
Python Software Foundation	Python	3.7.1
Singular Systems	JEP	2.4.1
Steven Sanderson	Knockout.js	3.3.0
The Flex Project	Flex	2.6.0
Anthony Tuininga	cx_Oracle	6.3.1
Vanderbilt University	The ACE Orb (TAO)	2.4.8

## 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.

<b>Vendor</b>	<b>Product</b>	<b>Version</b>	<b>Notes</b>
Oracle	BI Publisher	12.2.1.4 (SP4+)	Used for business intelligence reports and for printing and e-mailing web switching plans.
Oracle	Java Developer Kit (JDK)	1.8.0_191+	Used by Java GUI components and web-service based interfaces (Client and Server side)
Oracle	Oracle RDBMS Standard or Enterprise Editions 12cR2	12.2.0.1+ (SP1+)	Required for core Oracle Utilities Network Management System functionality.
Oracle	Oracle WebLogic Server Standard, Enterprise, or Suite Editions 12c	12.2.1.3+ (SP3+)	Used by Java GUI components and web-service based interfaces

Vendor	Product	Version	Notes
Apache Software Foundation	Cordova	8.0.0	A mobile development framework, used by Operations Mobile Application, that enables programmers to develop applications in HTML5, Javascript and CSS3 rather than relying on platform-specific APIs like those in iOS or Android.
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	71+	Used to display online help and when using Java Web Start to download the NMS Java client applications.
Grzegorz Kowal	Launch4j Executable Wrapper	3.0.2	Used with NSIS to install standalone Java client applications from the Configuration Assistant.
IBM	JDK	1.8.0 (SR5 FP25) (64-bit)	Used by Java GUI components and web-service based interfaces
IBM	WebSphere MQ	8.0	Needed for Generic WebSphere MQ Adapters
Intergraph	G/Electric GIS	9.3.x, 10.x	Intergraph GIS
LiveData	ICCP	V6.02	Needed for the LiveData ICCP SCADA Adapter
Microsoft	Edge	41+	Used to display online help and when using Java Web Start to download the NMS Java client applications.
Microsoft	Internet Explorer	11.x	
Microsoft	Windows	7, 8.1, 10 (32-bit/64-bit)	Used to run client applications.

- Internet Explorer 11.x is supported with Microsoft Windows 7, 8, and 10. Internet Explorer must have Compatibility Mode enabled. 32-bit Java should be installed if iexplorer.exe shows \*32 in Microsoft Task Manager. If you are running a 64-bit browser, install 64-bit Java on the Windows PC.

Vendor	Product	Version	Notes
Mozilla	Firefox	60.x+	Used to display online help and when using Java Web Start to download the NMS Java client applications.
Nullsoft	NSIS (Nullsoft Scriptable Install System)	2.46	Used with Launch4j to install standalone Java client applications from the Configuration Assistant.
Opsla University	html2ps	1.0b7	Used for printing from Service Alert

**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 and Standard Editions and Oracle BI Publisher are separately licensed modules from Oracle.
- WebSphere MQ and LiveData ICCP all require separate third party licenses 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

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.

- ACE / TAO
- Apache Packages
- boost
- CBC
- csmapi
- cx\_Oracle
- Guava
- gsoap
- Gson
- Java HTML Sanitizer
- Jena
- JGraphX
- jQuery JavaScript Library
- jQuery Mobile
- Knockout.js
- lighttpd
- PCRE
- proxy-vole
- Python
- SendSignal

## ACE / TAO

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## Apache Packages

- Apache Ant
- Apache Commons BeanUtils
- Apache Commons Configuration
- Apache Commons Codec
- Apache Commons Collections
- Apache Commons Digester
- Apache Commons HttpClient
- Apache Commons Lang
- Apache Log4j
- Apache PDFBox
- Apache Xalan C++
- Apache Xerces C++
- deep-equals

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Version 2.0, January 2004

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Written by: Philip Hazel

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## SendSignal

v1.0

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