

# **Oracle Utilities Network Management System**

Licensing Information User Manual

Release 2.5.0.0.0

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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><br>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><br>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>  |
| <b>OMS Option:</b><br>Outage Management Call Center              | <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>   |

| Functional Area   | Description   |
|---|---|
| <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>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>  |
| <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>  |



| Functional Area  | Description  |
|--|--|
| <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</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>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>  |
| <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>NMS Option: 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>  |

# 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   | ✓*  |     |
| 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                                   |     | ✓*  |
| NMS Option: SCADA  | ✓*  | ✓*  |
| NMS Option: Training Simulator   | ✓*  | ✓*  |
| NMS Option: Operations Mobile Application                                | ✓*  | ✓*  |

# 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 Xerces2 for Java       | 2.12.0                 |
|                            | Apache Xerces C++             | 3.2.2                  |
|                            | Apache Xalan C++              | 1.11                   |
|                            | Apache Ant                    | 1.10.8                 |
|                            | Apache Batik                  | 1.13                   |
|                            | Apache Commons Lang           | 3.4, 3.10              |
|                            | Apache Commons Configuration2 | 2.7                    |
|                            | Apache Commons BeanUtils      | 1.9.4                  |
|                            | Apache Commons Collections4   | 4.4.4                  |
|                            | Apache Commons HttpClient     | 3.1                    |
|                            | Apache Commons Math           | 3.6                    |
|                            | Apache Log4j2                 | 2.13.2                 |
|                            | Apache POI                    | 4.1.1                  |
|                            | Apache XmlBeans               | 3.1.0                  |
|                            | Apache XML Commons External   | 1.3.02, 1.3.04, 1.4.01 |
| Autodesk                   | Csmap                         | 14.05                  |
| Markus Bernhardt           | proxy-vole                    | 1.0.5                  |
| Boost.org                  | Boost                         | 1.73.0                 |
| COIN-OR Foundation         | CBC                           | 2.10.5                 |
| Genevia                    | gSoap                         | 2.8.100                |
| Google                     | Google Guava                  | 29.0                   |
| Google                     | Gson                          | 2.8.6                  |
| Hewlett Packard            | Jena                          | 2.6.3                  |
| JGraph Ltd                 | JGraphX                       | 1.10.3.2               |
| John DeRegnaucourt         | deep-equals                   | 1.7                    |
| Jonathan Hedley            | jsoup                         | 1.13.1                 |

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| <b>Vendor</b>              | <b>Product</b>                                   | <b>Version</b> |
|----------------------------|--|----------------|
| jQuery Foundation          | jQuery   | 3.5.1          |
| KaiToedter                 | Jcalendar  | 1.3.2          |
| lighttpd                   | lighttpd   | 1.4.55         |
| localForage                | localForage                                      | 1.7.3          |
| NetCat AG                  | Reportcat  | 1.1.1          |
| OWASP Foundation           | Java HTML Sanitizer                              | 20180219.1     |
| Philip Hazel               | PCRE library                                     | 8.44           |
| Python Software Foundation | Python   | 3.8.2          |
| QOS.ch                     | SLF4J  | 1.5.8, 1.7.30  |
| Singular Systems           | JEP  | 2.4.1          |
| Steven Sanderson           | Knockout.js                                      | 3.5.1          |
| NPM                        | knockout-store                                   | 3.0.2          |
| The Flex Project           | Flex   | 2.6.4          |
| Anthony Tuininga           | cx_Oracle  | 7.3.0          |
| Unicode                    | International Components for Unicode<br>for Java | 3.4.4          |
| Vanderbilt University      | The ACE Orb (TAO)                                | 2.5.9          |

## 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                     | 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_241+      | 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  | 6.03+, 7.1+     | Needed for the ICCP SCADA Adapter   |
| Oracle                     | Oracle RDBMS Enterprise Edition  | 19.3+           | Required for core Oracle Utilities Network Management System functionality.   |
| Oracle                     | Oracle WebLogic Server Standard, Enterprise, or Suite Editions 12c                           | 12.2.1.4+       | Used by Java GUI components and web-service based interfaces  |
| 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. |
| Apple                      | iOS SDK XCODE  | 11.4+           | Required to develop Operations Mobile Application for iOS platform.   |
| 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                     | Android Studio   | 3.4.1+          | Required to develop Operations Mobile Application for Android platform.   |
| Google                     | Google Chrome  | 81+             | Used to display online help and when using Java Web Start to download the NMS Java client applications.   |

| Vendor         | Product                                   | Version                   | Notes   |
|----------------|---|---------------------------|---|
| Grzegorz Kowal | Launch4j Executable Wrapper               | 3.0.2                     | 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)                           | 81+                       | Used to display online help and when using Java Web Start to download the NMS Java client applications. |
| Microsoft      | Visual Studio                             | V2017+                    | Required to develop Operations Mobile Application for Windows 10 APP platform                           |
| Microsoft      | Windows                                   | 10<br>(32-bit/<br>64-bit) | Used to run client applications.  |
| Mozilla        | Firefox                                   | 68+                       | 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.     |

### 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 Operation// separately licensed modules 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

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
- csmmap
- cx\_Oracle
- deep-equals
- gsoap
- Gson
- Guava
- International Components for Unicode for Java
- Java HTML Sanitizer
- Jena
- JGraphX
- jQuery JavaScript Library
- jQuery Mobile
- jsoup
- Knockout.js
- knockout store
- lighttpd
- localForage
- PCRE
- proxy-vole
- Python
- SLF4J

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## Apache Packages

- Apache Ant
- Apache Batik
- Apache Commons BeanUtils
- Apache Commons Configuration
- Apache Commons Collections
- Apache Commons HttpClient
- Apache Commons Lang
- Apache Commons Math
- Apache Log4j
- Apache POI
- Apache Xalan C++
- Apache Xerces C++
- Apache Xerces for Java
- Apache XmlBeans
- Apache XML Commons External

Apache License

Version 2.0, January 2004

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