

Oracle Utilities Network Management System

Quick Install Guide

Release 1.10.0.5.0

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Quick Install

This guide provides a summary overview of the installation for Oracle Utilities Network Management System as delivered by Oracle.

- This release can be used to create a new installation or to upgrade an existing installation of the Oracle Utilities Network Management System.
- The Oracle Utilities Network Management System Isis License key requirement has been removed. If you are upgrading from a pre-NMS V1.8.x release, you are no longer required to have an Isis key to execute the Isis middleware.
- Please contact Oracle Support at <http://www.oracle.com/support/index.html> for advice about upgrading to the current release.

This guide includes the following topics:

- **Components of Oracle Utilities Network Management System**
- **Installation Media**
- **Hardware / Software Requirements**
- **Supported Platforms Summary**
- **Installation Process Overview**

Components of Oracle Utilities Network Management System

The system can include the following components:

- All Unix applications and services comprising the Oracle Utilities Network Management System
- Bundled non-NMS Oracle and third party application software
- Optional Windows application software
- Oracle Utilities Network Management System Quick Install Guide, which describes the software components and supported platforms
- Oracle Utilities Network Management System Installation Guide, which describes the installation process in detail
- Oracle Utilities Network Management System User, Configuration, and Adapter Documentation
- Product Release Notes
- Database configuration with base product configuration installed
- Sample network model and customer data to allow base system installation verification
- Database migration scripts for the Oracle Utilities Network Management System real-time database (needed for upgrades only)
- Database migration scripts for migration of PerformanceMart data to Oracle Utilities Business Intelligence (needed for upgrades only)

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- Base product Oracle Utilities Business Intelligence Extractors and Reports

Installation Media

All media is available on the Oracle Software Delivery Cloud (edelivery.oracle.com) in ZIP format. The following media packs can be downloaded and used for installation of the Oracle Utilities Network Management System software.

- **Release Notes Media**
- **Documentation Media**
- **Base Media**
- **Optional Windows Application Media**
- **Third Party Software Media**

Release Notes Media

This media pack contains the Oracle Utilities Network Management System release notes which give an overview of the enhancements included in the current release. The release notes are also included in the Documentation Media.

Documentation Media

This media pack contains all Oracle Utilities Network Management System product documentation for the current release.

In addition to this Quick Install Guide, all product documentation is provided in one ZIP file that extracts to a **Documentation** folder with subfolders for each documentation category.

The subfolders and their content are:

- **Adapter_Guides**
 - Oracle Utilities Network Management System Adapters Guide (PDF). This guide provides details on the installation and configuration of numerous enterprise system adapters (to systems such as SCADA, AMI, GIS etc.), included with the Oracle Utilities Network Management System.
- **Configuration_Guides**
 - Oracle Utilities Network Management System Configuration Guide (PDF). This guide provides details on the configuration and implementation of the Oracle Utilities Network Management System and its environment.
- **Installation**
 - Oracle Utilities Network Management System Quick Install Guide (PDF). This is the starting point for the installation process. Please print out a copy of this document and read all pertinent sections before beginning the base software package installation.
 - Oracle Utilities Network Management System Installation Guide (PDF). This guide provides details on environment preparation, installation, and basic configuration of the Oracle Network Management System.
- **Release_Notes**
 - Oracle Utilities Network Management System Installation Release Notes (PDF). This document provides release notes that give an overview of the changes included in the current release.

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- **User_Guides**
 - Oracle Utilities Network Management System User's Guide (PDF). The user's guide provides information for using the product modules and tools. The guide content is also available in the Online (HTML) Help, which may be accessed via Help menus and buttons located throughout the system.

Base Media

These are the base Oracle Utilities Network Management System products along with all product documentation. Base media package downloads are available for each hardware/operating system platform.

See the **Supported Platforms Summary** on page 1-4 for a list of supported platforms for this release.

Optional Windows Application Media

Optional Windows software applications are available in this separate Media Package. These applications include GIS Adapters and Java GUI client installers.

Third Party Software Media

This package contains required non-NMS Oracle and third party Unix components that are available for each Unix hardware/operating system platform. See the list of bundled non-NMS Oracle and third party products on page 6 for a complete list.

Hardware / Software Requirements

This section provides the basic overview of the Oracle Utilities Network Management System architecture as well as the supported platforms. It includes the following topics:

- **Oracle Utilities Network Management System Architecture Overview**
- **Supported Platforms Summary**

Oracle Utilities Network Management System Architecture Overview

Tier 1: Rich Java Client / Exceed Client

Oracle Utilities Network Management System supports the following client operating systems:

- Windows XP Professional SP3 (32-bit)
- Windows 7 Professional (32-bit/64-bit)
- Windows Vista Business SP2 (32-bit)

Tier 2: Java Application / Unix Services Server

Oracle Utilities Network Management System supports the following Enterprise Java Beans application servers:

- Oracle WebLogic Application Server
- JBoss Application Server

Oracle Utilities Network Management System supports the following Unix servers:

- IBM AIX
- SUN Solaris

- HP HP-UX
- Oracle Enterprise LINUX
- Red Hat Enterprise LINUX
- SUSE LINUX

Oracle Network Management System supports the following Virtual servers:

- Oracle VM Server Virtualization and Management running the Oracle Enterprise LINUX operating system

Tier 3: Database Server

Oracle Utilities Network Management System supports the Oracle RDBMS Enterprise Edition Server.

Supported Platforms Summary

This section includes the following topics:

- **Operating System, Database, and Java Application Server Support**
- **Inter-product Compatibility to Other Oracle Utilities Product Versions**
- **Non-NMS Oracle and Third Party Products (Bundled with Release)**
- **Non-NMS Oracle and Third Party Products (Not Bundled with Release)**

Operating System, Database, and Java Application Server Support

The following table summarizes the supported platforms for Oracle Utilities Network Management System.

Operating Systems	OS Server Architecture / Compiler Version	Database Server and Java Application Servers: Supported Combinations
Sun Solaris 5.10	SPARC 64-bit / SunStudio 12.1 (Sun C++ 5.10)	<ul style="list-style-type: none"> • Oracle 11.1.0.7 (64-bit) with WebLogic Server 10.3.5 • Oracle 11.1.0.7 (64-bit) with JBoss Application Server 5.1.0 GA* • Oracle 11.2.0.1 (64-bit) with WebLogic Server 10.3.5 • Oracle 11.2.0.1 (64-bit) with JBoss Application Server 5.1.0 GA*
IBM AIX6.1 TL4-SP3	POWER 64-bit / XL C/C++ 10.1 (10.01.0000.0005)	<ul style="list-style-type: none"> • Oracle 11.1.0.7 (64-bit) with WebLogic Server 10.3.5 • Oracle 11.1.0.7 (64-bit) with JBoss Application Server 5.1.0 GA* • Oracle 11.2.0.1 (64-bit) with WebLogic Server 10.3.5 • Oracle 11.2.0.1 (64-bit) with JBoss Application Server 5.1.0 GA*
Red Hat Enterprise Linux 5.5	x86 64-bit / g++ v4.1.2-46	<ul style="list-style-type: none"> • Oracle 11.1.0.7 (64-bit) with WebLogic Server 10.3.5 • Oracle 11.1.0.7 (64-bit) with JBoss Application Server 5.1.0 GA* • Oracle 11.2.0.1 (64-bit) with WebLogic Server 10.3.5 • Oracle 11.2.0.1 (64-bit) with JBoss Application Server 5.1.0 GA*

Operating Systems	OS Server Architecture / Compiler Version	Database Server and Java Application Servers: Supported Combinations
Oracle Enterprise Linux 5.5	x86 64-bit / g++ v4.1.2-46	<ul style="list-style-type: none"> • Oracle 11.1.0.7 (64-bit) with WebLogic Server 10.3.5 • Oracle 11.1.0.7 (64-bit) with JBoss Application Server 5.1.0 GA* • Oracle 11.2.0.1 (64-bit) with WebLogic Server 10.3.5 • Oracle 11.2.0.1 (64-bit) with JBoss Application Server 5.1.0 GA*
HP-UX 11.31	Itanium 64-bit / HP c/aC++ A.06.24	<ul style="list-style-type: none"> • Oracle 11.1.0.7 (64-bit) with WebLogic Server 10.3.5 • Oracle 11.1.0.7 (64-bit) with JBoss Application Server 5.1.0 GA* • Oracle 11.2.0.1 (64-bit) with WebLogic Server 10.3.5 • Oracle 11.2.0.1 (64-bit) with JBoss Application Server 5.1.0 GA*
SUSE 11	x86 64-bit / g++ v4.3.2	<ul style="list-style-type: none"> • Oracle 11.1.0.7 (64-bit) with WebLogic Server 10.3.5 • Oracle 11.1.0.7 (64-bit) with JBoss Application Server 5.1.0 GA* • Oracle 11.2.0.1 (64-bit) with WebLogic Server 10.3.5 • Oracle 11.2.0.1 (64-bit) with JBoss Application Server 5.1.0 GA*

Note: The Java Application Server used by Oracle Utilities Network Management System does not need to be co-located with the Unix services and can run on any of the above platforms that are supported by that product vendor for that version. The Oracle RDBMS used by Oracle Utilities Network Management System does not need to be co-located with the Unix Services and can run on any of the above platforms supported by Oracle for that RDBMS version.

***JBoss Supported for Backwards Compatibility Only**

The JBoss application server is only supported in version 1.10.0 for backwards compatibility for existing Oracle Utilities Network Management System customers that are upgrading to this version. The JBoss application server as a supported platform will be deprecated in a future release of Oracle Utilities Network Management System for all customers. The JBoss application server is not supported in version 1.10.0 for new Oracle Utilities Network Management System customers. New customers must deploy the Oracle WebLogic Server for their Java application server.

Planned Deprecation in a Future Release

The following platforms are planned to be deprecated in a future release of Oracle Utilities Network Management System:

- Business Objects standard reports

Inter-product Compatibility to Other Oracle Utilities Product Versions

Oracle Utilities Product	Version(s) Supported
Oracle Utilities Customer Care & Billing	2.3.1
Oracle Utilities Mobile Workforce Management (MWM)	1.5
Oracle Business Intelligence for Utilities (OBIU)	2.2.1, 2.4

Non-NMS Oracle and Third Party Products (Bundled with Release)

The following table lists all non-NMS Oracle and third party software that is bundled with the Oracle Utilities Network Management System release and is installed as part of the base product installation. They are contained on the Third Party Software Media download.

Vendor	Product	Version
Quest Software	XRT Table Widget	3.2.0
Oracle	JRE	6.0 Update 15 (64-bit)
Apache.org	Apache Xerces	2.7.0
Apache.org	Apache Xalan	1.10
TAO	TAO ORB for C++	1.7.5
CPAN	Perl	5.10.1
	DBD-Oracle	1.23
	DBI	1.609
	Tk	804-028_501
	Tk-TM	0.53
	Data-Dumper	2.121
	HTML-Tagset	3.20
	URI	1.37
	HTML-Parser	3.60
	libwww-perl	5.825
	XML-Namespacesupport	1.09
	XML-SAX	0.96
	XML-Parser	2.36
	XML-LibXML-Common	0.13
	XML-LibXML	1.69_2
Python.org	Python	2.6.4
	Tcl / Tk	8.5.7
	Imaging	1.1.6
	cx_Oracle	5.0.2
Genevia	Gsoap	2.7.15
Apache.org	Log4J	1.2.11
Apache.org	Apache Jakarta Commons	3.2
flex.sourceforge.net	flex	2.5.4a
flex.sourceforge.net	boost	1.34.1
Image Magick	convert	6.5.5
libpng.org	libpng	1.2.9
Independent JPEG Group	libjpeg	6b of 27-Mar-1998
Zlib	libz	1.2.3
Muller und Stien	SWordAPI	1.4
Theodore Ts'o	libuuid	3.14

Vendor	Product	Version
Haxx Michael Schrenk Ltd.	libcurl	7.19.1
Kai Toedter	Jcalendar	1.3.2
Singular Systems	JEP	2.24
NetCat AG	Reportcat	1.1.1
Autodesk	csmapi	1595
ZValley	WingZ	1.2.1
xmlsoft.org	libxml2	2.7.5
xmlsoft.org	libxslt	1.1.264
expat.sourceforge.net	expat	2.0.1
sqlite.org	libsqlite	3.6.18

Non-NMS Oracle and Third Party Products (Not Bundled with Release)

The following table lists non-NMS Oracle and third party software that is required for specific product modules of the Oracle Utilities Network Management System release but is 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	Oracle RDBMS Enterprise Edition	11.1.0.7.0, 11.2.0.1	Needed for core NMS Product
Oracle	Discoverer	10.1	Used for Business Intelligence Reports
Oracle	BI Publisher	10.1.3.4.1	Used for Business Intelligence Reports & Web Switching Printing/Emailing
Oracle	Oracle WebLogic Server Standard Edition	10.3.5	Used by Java GUI components and web-service based interfaces
Business Objects	Business Objects	Version XI, Release 2	Used for Business Intelligence Reports
Hummingbird	Exceed	14	Used by X/Motif client applications
Hummingbird	Exceed onDemand	7	Used by X/Motif client applications
IBM	WebSphere MQ	7.0.1.1	Needed for Generic WebSphere MQ Adapters
LiveData	ICCP	V5.01	Needed for ICCP SCADA Adapter
Oracle	JDK	6.0 Update 15 (64-bit)	Used by Java GUI components and web-service based interfaces
HP	JDK	1.6.0.06 (64-bit)	Used by Java GUI components and web-service based interfaces

Vendor	Product	Version	Notes
IBM	JDK	1.6 SR7 (64-bit)	Used by Java GUI components and web-service based interfaces
Microsoft	Internet Explorer	7, 8	Only needed if using Java Webstart to download Java client applications
oopsla university	html2ps	1.065	Used for printing from X/Motif applications
jboss.org	JBoss	5.1.0 GA	Used by Java GUI components and web-service based interfaces
ESRI	ArcGIS/ArcFM on SDE, Personal GDBs in Access, File GDBs, and Personal SDE / SqlServerExpress	9.0, 9.1, 9.2, 9.3	ESRI GIS
Intergraph	G/Electric GIS	9.3.x	Intergraph GIS
GE	Smallworld GIS	3.x or 4.x	Smallworld GIS
Grzegorz Kowal	Launch4j Executable Wrapper	3.0.2	Used with NSIS to install standalone Java client applications from the Configuration Assistant.
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:

- Oracle RDBMS Enterprise Edition, Oracle WebLogic Server Standard Edition, Oracle BI Publisher, and Oracle Discoverer are separately licensed modules from Oracle
- Business Objects, Exceed, ExceedonDemand, WebSphere MQ, and LiveData ICCP all require separate third party licenses to be acquired by Oracle customers
- Business Objects, Oracle Discoverer, or Oracle BI Publisher can be used for Standard Oracle Utilities Network Management System Business Intelligence reports.
- Exceed can be used to display Oracle Utilities Network Management System clients on networks with minimal (3-4ms) latency between the PC clients and application server.
- Exceed onDemand should be used to display Oracle Utilities Network Management System clients on networks with higher latency between the PC client and application server

Installation Process Overview

This section provides a high level overview of the basic steps to install the Oracle Utilities Network Management System software.

Install Database

Oracle Utilities Network Management System supports the Oracle Relational Database Management System (RDBMS). The RDBMS must be properly installed and configured prior to using the Oracle Utilities Network Management System software. Please refer to the Oracle RDBMS documentation for details on installing the database software. Please see the Database Configuration chapter of the Oracle Utilities Network Management System Configuration Guide for detailed information on the setup and configuration of the Oracle RDBMS for use with the Oracle Utilities Network Management System software.

Install Non-NMS Oracle and Third Party Software

Please refer to the Oracle Utilities Network Management System Installation Guide for details of installing the bundled and unbundled non-NMS Oracle and third party products needed for proper execution of the application software. The bundled software will be installed with Oracle-supplied scripts, while other Oracle and third party products may need to be downloaded or installed from other vendor-supplied media.

Install Oracle Utilities Network Management Software

Please refer to the Oracle Utilities Network Management System Installation Guide for details of installing the application software. Some steps included in the install guide require specific actions based on the Unix operating system or Java Application server that you will be using. Pay special attention to follow each step exactly as documented in the installation guide.

Configure Oracle Utilities Network Management System Components

Please refer to the Oracle Utilities Network Management System Configuration Guide for details of configuring the various components of your Oracle Utilities Network Management System.

