

# **Oracle Utilities Network Management System**

Quick Install Guide

Release 1.11.0.3

**E35558-01**

August 2012

Copyright © 1991, 2012 Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

#### U.S. GOVERNMENT RIGHTS

Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation shall be subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License (December 2007). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

This software is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications which may create a risk of personal injury. If you use this software in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure the safe use of this software. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software in dangerous applications.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

This software and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

---

---

# Contents

## Quick Install

Components of Oracle Utilities Network Management System.....	1
Installation Media .....	2
Release Notes Media .....	2
Documentation Media .....	2
Base Media .....	3
Optional Windows Application Media.....	3
Hardware / Software Requirements.....	3
Oracle Utilities Network Management System Architecture Overview.....	4
Tier 1: Rich Java Client.....	4
Tier 2: Java Application / Unix Services Server .....	4
Tier 3: Database Server.....	4
Supported Platforms Summary.....	5
Operating System, Database, and Java Application Server Support .....	5
Inter-product Compatibility to Other Oracle Utilities Product Versions .....	5
Bundled Third Party Products.....	6
Required Unbundled Oracle and Third Party Products.....	7
Installation Process Overview .....	8
Install Database .....	8
Install non-NMS Oracle and Third Party Software .....	8
Install Oracle Utilities Network Management Software .....	8
Configure Oracle Utilities Network Management System Components .....	8



# 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.
- 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 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 some upgrades only)
  - Base product Oracle Utilities Business Intelligence Extractors and Reports

## Installation Media

All media is available on the Oracle Software Delivery Cloud ([edelivery.oracle.com](https://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**

## 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.

- 
- **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 and bundled third party products. Base media package downloads are available for each hardware/operating system platform.

See the **Supported Platforms Summary** on page 1-5 for a list of supported platforms for this release; see **Bundled Third Party Products** on page 1-6 for a list of bundled products.

## Optional Windows Application Media

Optional Microsoft Windows software applications, such as GIS adapters, are available in a separate media package.

## 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

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

- Windows XP Professional SP3 (32-bit)
- Windows 7 Professional (32-bit/64-bit)
- Oracle Linux 6.2

## Tier 2: Java Application / Unix Services Server

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

- Oracle WebLogic Application Server

Oracle Utilities Network Management System supports the following **Unix** and **Linux** servers:

- IBM AIX
- Oracle Solaris
- Oracle Linux (with Unbreakable Enterprise Kernel)

Oracle Network Management System supports the following **Virtual** servers:

- Oracle VM Server Virtualization and Management running the Oracle Linux operating system

## Tier 3: Database Server

Oracle Utilities Network Management System supports the Oracle RDBMS Standard Edition and Enterprise Edition Servers.



---

## 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**
- **Bundled Third Party Products**
- **Required Unbundled Oracle and Third Party Products**

### 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**
IBM AIX6.1 TL7-SP5	POWER 64-bit / XL C/C++ 10.1 (10.01.0000.0005)	Oracle 11gR2 11.2.0.2.0 (64-bit) SE or EE with WebLogic Server 10.3.5
IBM AIX7.1 TL1-SP4	POWER 64-bit	Oracle 11gR2 11.2.0.2.0 (64-bit) SE or EE with WebLogic Server 10.3.5
Oracle Solaris 10	SPARC 64-bit / SunStudio 12.1 (Sun C++ 5.10)	Oracle 11gR2 11.2.0.2.0 (64-bit) SE or EE with WebLogic Server 10.3.5
Oracle Linux 6.2 (Unbreakable Enterprise Kernel)	x86 64-bit / g++ v4.4.4-13	Oracle 11gR2 11.2.0.2.0 (64-bit) SE or EE with WebLogic Server 10.3.5

**\*\*Notes:**

- 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 Oracle for that WebLogic Server 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.

### Inter-product Compatibility to Other Oracle Utilities Product Versions

Oracle Utilities Product	Version(s) Supported
Oracle Utilities Customer Care and Billing (CC&B)	2.3.1
Oracle Business Intelligence for Utilities (OBIU)	2.2.x, 2.3.x, 2.4.0

---

## 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++	2.7.0
	Apache Xalan C++	1.10
	Apache Ant	1.7.1
	Apache Commons Lang	2.4
	Apache Commons Configuration	1.6
	Apache Commons BeanUtils	1.6
	Apache Commons Codec	1.3
	Apache Commons Collector	3.1
	Apache Commons Digester	1.7
	Apache Commons HttpClient	3.1
	Apache Log4j	1.2.14
Apache.org	Apache Xalan	1.10
Vanderbilt University	The ACE Orb (TAO)	1.8.3
The Jython Project	Jython	2.5.1
Genevia	Gsoap	2.7.15
The Flex Project	Flex	2.5.4a
Boost.org	Boost	1.45.0
KaiToedter	Jcalendar	1.3.2
Singular Systems	JEP	2.4.0
NetCat AG	Reportcat	1.1.1
Hewlett Packard	Jena	2.6.4
Autodesk	Csmapi	1922

## 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	11.1.1.6.0	Used for business intelligence reports and for printing and e-mailing web switching plans.
Oracle	Business Intelligence Discoverer	11.1.1.4	Used for business intelligence reports.
Oracle	Java Developer Kit (JDK)	6.0 Update 23 (64-bit)	Used by Java GUI components and web-service based interfaces
Oracle	Oracle RDBMS Standard or Enterprise Editions 11gR2	11.2.0.2	Required for core Oracle Utilities Network Management System functionality.
Oracle	Oracle WebLogic Server Standard Edition 11gR1	10.3.5	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, 10.0	Esri 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.
IBM	JDK	1.6 SR9 FP1 (64-bit)	Used by Java GUI components and web-service based interfaces
IBM	WebSphere MQ	7.1	Needed for Generic WebSphere MQ Adapters
Intergraph	G/Electric GIS	9.3.x	Intergraph GIS
LiveData	ICCP	V5.01	Needed for ICCP SCADA Adapter
Microsoft	Internet Explorer	7+	Used to display online help and when using Java Web Start to download the NMS Java client applications.
Mozilla	Firefox	3.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	1.065	Used for printing from Service Alert

---

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

- Oracle RDBMS Enterprise and Standard Editions, Oracle WebLogic Server Standard Edition, Oracle BI Publisher, and Oracle Discoverer are separately licensed modules from Oracle
- WebSphere MQ, and LiveData ICCP all require separate third party licenses to be acquired by Oracle customers
- Oracle Discoverer or Oracle BI Publisher can be used for Standard Oracle Utilities Network Management System Business Intelligence reports.

## 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.

#### Reference Information

- For information on installing the database software, see the Oracle RDBMS documentation.
- For information on configuring Oracle RDBMS for use with the Oracle Utilities Network Management System software, see the “Database Configuration” chapter of the *Oracle Utilities Network Management System Configuration Guide*.

### Install non-NMS Oracle and Third Party Software

Please refer to the *Oracle Utilities Network Management System Installation Guide* for details of installing unbundled non-NMS Oracle and third party products needed for proper execution of the application software. 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.