

Network Management System

Quick Install Guide

Release 2.6.0.1.0

F84773-01

August 2023

Oracle Utilities Network Management System Quick Install Guide, Release 2.6.0.1.0

F84773-01

Copyright © 1991, 2023 Oracle and/or its affiliates.

Contents

Quick Install

- Components of Oracle Utilities Network Management System 1-1
- Installation Media 1-2
 - Release Notes Media..... 1-2
 - Documentation Media..... 1-2
 - Base Media..... 1-3
 - Oracle Utilities Network Management System Architecture Overview 1-4
 - Third Party Products..... 1-7
- Installation Process Overview 1-8
 - Install Database 1-8
 - Install Non-NMS Oracle and Third Party Software 1-8
 - Install Oracle Utilities Network Management Software..... 1-8
 - Configure Oracle Utilities Network Management System Components 1-8

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 Network Management System.
- 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.
- *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 Licensing Information User Manual* (PDF), which provides details on product licensing, module dependencies, and third party application information.
- Oracle Utilities Network Management System User, Configuration, and Adapter Documentation.
- *Oracle Utilities Network Management System Grid Edge DERMS Installation and Deployment Guide*.
- *Oracle Utilities Network Management System Operations Mobile Application Installation and Deployment Guide*.
- 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 Analytics (needed for some upgrades only).

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](#)

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.

- *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.
- *Oracle Utilities Network Management System Advanced Distribution Management System Implementation Guide* (PDF). This guide provides an overview to implementing the Advanced Distribution Management System (ADMS) modules and is intended to be a high-level overview that will allow implementers to make decisions about data requirements, order of deployment, application scope and training requirements.
- *Oracle Utilities Network Management System Configuration Guide* (PDF). This guide provides details on the configuration and implementation of the Oracle Utilities Network Management System, its environment, and security.
- *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.
- *Oracle Utilities Network Management System Licensing Information User Manual* (PDF). This manual provides details on product licensing, module dependencies, and third party application information.

- *Oracle Utilities Network Management System Operations Mobile Application Installation and Deployment Guide* (PDF). This document provides information on installing and deploying the Operations Mobile Application.
- *Oracle Utilities Network Management System Grid Edge DERMS Installation and Deployment Guide* (PDF). This document provides information on installing and deploying Grid Edge DERMS.
- *Oracle Utilities Network Management System Quick Install Guide* (PDF). This is the starting point for the installation process. Please print a copy of this document and read all pertinent sections before beginning the base software package installation.
- *Oracle Utilities Network Management System Release Notes* (PDF). This document provides release notes that give an overview of the changes included in the current release.
- *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.
- *Oracle Utilities Network Management Security Guide* (PDF). This document describes how you can configure security for Oracle Utilities Network Management System using default features.

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 1-7 for a list of supported platforms for this release. See the *Oracle Utilities Network Management System Licensing Information User Manual* for a list of bundled and unbundled products used within the Oracle Utilities Network Management System product suite.

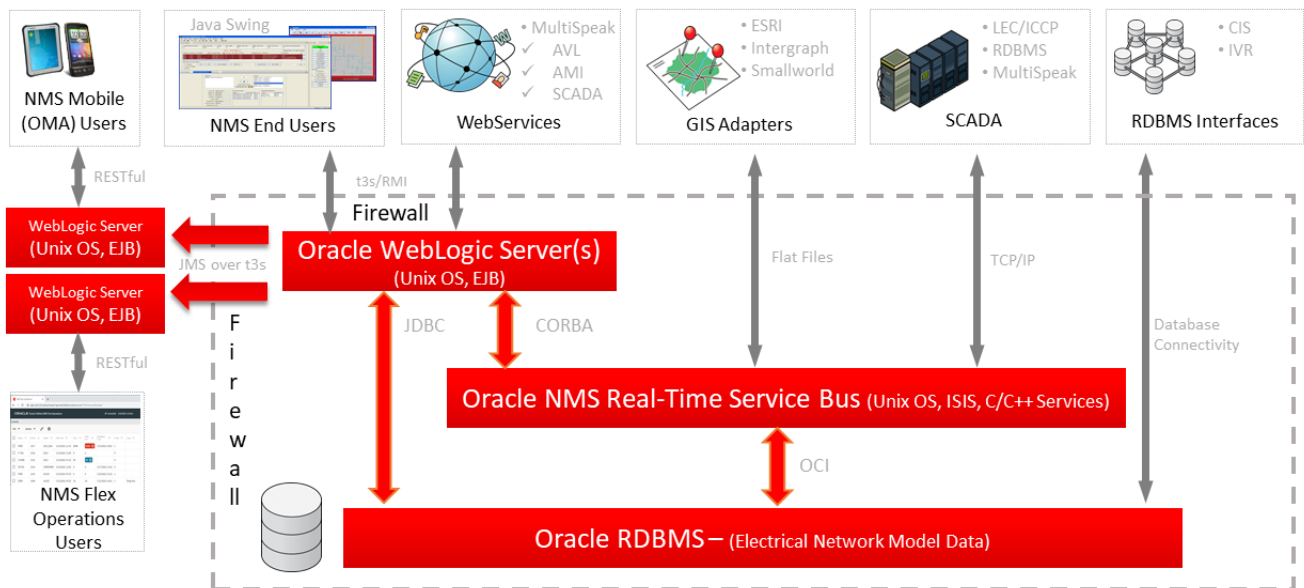
Hardware / Software Requirements

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

Oracle NMS – High-Level Architecture



Tier 1: Rich Java Client / Flex Operations Client

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

- Windows 10, 11 (Build 22H2)
- Oracle Linux 8.x
- Windows Server 2019+ via Remote Desktop Services

Notes:

- Clients should have a monitor with a resolution of 1980x1080 or higher.
- Flex Operations is supported on tablets with a recommended minimum size of 10 inches.

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:

- Oracle Solaris - current implementations only, no new implementations
- Oracle Linux (Unbreakable Enterprise kernel or Red Hat Compatible kernel)
- Red Hat Enterprise Linux

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

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

Note on Oracle Support Policy on VMWare: Refer to My Oracle Support knowledge base article 249212.1 for Oracle's support policy on VMWare.

Notes:

- This instance of the Oracle WebLogic Application Server should be running in the GMT/UTC time zone. (The TZ environment variable should be "UTC".)
- This instance should not be shared with any NMS deployments running earlier versions of the code that did not yet support the UTC time zone.

Tier 3: Database Server

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

Note: Oracle Locator, a standard component of all Oracle Database editions, is a required component of the database installation. See the *Oracle Utilities Network Management System Installation Guide* for details on ensuring that Oracle Locator has not been removed from your installation.

Notes:

- This instance of the Oracle Database should be running in the GMT/UTC time zone. (The TZ and ORA_SDTZ environment variables should be "UTC", and the database TIMEZONE value must be '+00:00'.)
- This database instance should not be shared with any NMS installations running earlier versions of the code that did not yet support the UTC time zone.

Operations Mobile Application and Flex Operations Client Device Support

The following operating systems are supported:

- Android 10.x+
- iOS/iPadOS 15.x+
- Windows 10,11 (Build 22H2)

Note: This release has been tested with the following:

- Samsung Galaxy Tab S4: Android 10 (OMA and Flex Operations)
- iPad Air (3rd generation) MUUJ2HN/A: iPadOS 15.7 (OMA and Flex Operations)
- Samsung Galaxy Tab A8: Android 12 (OMA Only)
- iPhone 7 MN9H2LL/A: iOS 15.7.5 (OMA Only)
- Samsung Galaxy S23 Ultra phone: Android 13.0 (OMA only)
- iPad Pro (12.9-inch 4th generation) MXFX2LL/A: iOS 16.5.1 (OMA and Flex Operations)
- Dell Latitude 7420 x64 - 16GB i7: Windows 10 Pro, version 22H2 (OMA and Flex Operations)
- Lenovo ThinkPad T490 16GB i7: Windows 10 Pro, version 22H2 (OMA and Flex Operations)
- Dynabook Portege X40-J 32GB i7: Windows 11 Pro, Version 22H2 (OMA and Flex Operations)

Supported Platforms Summary

Operating System, Database, and Java Application Server Support

Oracle Utilities Network Management System supports the following platforms.

Operating Systems	Compiler Version	OS Server Architecture	Application Server	Database Server
Oracle Solaris 11.4	Oracle Developer Studio 12.6 (gcc 11.2)	SPARC 64-bit	WebLogic 12.2.1.4+ (SP4+)	Oracle 19.16+
Oracle Linux/ Red Hat Enterprise Linux Version 8.7+	gcc 8.5.0 20210514	x86 64-bit	WebLogic 12.2.1.4+ (SP4+)	Oracle 19.16+

Notes:

- Oracle Solaris is supported for current implementations only, no new implementations.
- **Version Numbers**
 - Version numbers marked with a “+” are the **minimum** version supported. That version and all future 4th digit (2nd digit for releases beyond 12.x) updates will be supported.
Example: Oracle WebLogic 12.2.1.4+ means that 12.2.1.4 and any higher 12.2.1.x versions (for example, 12.2.1.4, 12.2.1.5, and so on) of Oracle WebLogic are supported.
- To use Oracle Utilities Network Management System with Oracle Utilities Analytics, both must be on the same version of the Oracle RDBMS.
- The Oracle WebLogic 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 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 platforms supported by Oracle for that RDBMS version.
- Oracle Utilities Network Management System is tested and supported on the versions of Oracle Linux specified. Because Oracle Linux is 100% userspace-compatible with Red Hat Enterprise Linux, Oracle Utilities Network Management System is also supported on Red Hat Enterprise Linux for this release.

Third Party Products

The **Bundled Third Party Products** and the **Required Unbundled Oracle and Third Party Products** tables, which were previously included in this guide, can now be found in the Network Management System *Licensing Information User Manual*.

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.