

# **Oracle Utilities Smart Grid Gateway**

Quick Installation Guide

Release 2.0.0 Service Pack 9

E20524\_09

May 2013  
Updated July 2013

Copyright © 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 America, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

This software or hardware 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 or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware 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

<b>Preface</b> .....	<b>i-i</b>
Audience .....	i-i
Related Documents .....	i-i
Conventions .....	i-i
<b>Chapter 1</b>	
<b>Oracle Utilities Smart Grid Gateway Installation Overview</b> .....	<b>1-1</b>
Oracle Utilities Smart Grid Gateway	
Media Pack Contents.....	1-2
Components for Oracle Utilities Smart Grid Gateway .....	1-4
Network Environment Overview.....	1-5
Certified and Supported Platforms.....	1-6
Oracle Utilities Smart Grid Gateway Adapters .....	1-6
Oracle Utilities Smart Grid Gateway OSB and SOA Adapters.....	1-7
Oracle Database Servers .....	1-7
Oracle WebLogic Server Information .....	1-7
Supported Versions .....	1-8
Installing Oracle Utilities Smart Grid Gateway .....	1-9
Oracle VM Support .....	1-9
Oracle Support Policy Regarding VMware .....	1-9
Installation and Configuration Overview.....	1-10
Additional Information for Installing Other Oracle Software .....	1-11
Oracle WebLogic 11gR1 .....	1-11
Contacting Oracle Support .....	1-11



---

---

# Preface

This guide provides an overview of installing Oracle Utilities Smart Grid Gateway.

This preface contains these topics:

- **Audience**
- **Related Documents**
- **Conventions**

## Audience

Oracle Utilities Smart Grid Gateway Installation Guide is intended for anyone interested in the process of installing Oracle Utilities Smart Grid Gateway.

## Related Documents

For more information, see these Oracle documents:

- *Oracle Utilities Smart Grid Gateway Installation Guide*
- *Oracle Utilities Smart Grid Gateway Database Administrator's Guide*

## Conventions

The following text conventions are used in this document:

<b>Convention</b>	<b>Meaning</b>
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.



# Chapter 1

---

## Oracle Utilities Smart Grid Gateway Installation Overview

This section provides a high-level overview of the installation of Oracle Utilities Smart Grid Gateway (SGG) version 2.0.0 and selected additional software. This section includes the following topics:

- **Oracle Utilities Smart Grid Gateway Media Pack Contents**
- **Components for Oracle Utilities Smart Grid Gateway**
- **Network Environment Overview**
- **Certified and Supported Platforms**
- **Installing Oracle Utilities Smart Grid Gateway**
- **Additional Information for Installing Other Oracle Software**
- **Contacting Oracle Support**

**Note:** This service pack is intended to be installed on top of an existing Oracle Utilities Smart Grid Gateway installation. Please refer to the **Readme.txt** file included with the release package for information about installing this service pack.

For more information, see *Oracle Utilities Smart Grid Gateway Installation Guide*.

Refer to My Oracle Support for up-to-date additional information on Oracle Utilities Smart Grid Gateway installation.

# Oracle Utilities Smart Grid Gateway Media Pack Contents

The Oracle Utilities Smart Grid Gateway Base Media Pack consists of the following packages:

- Oracle Utilities Smart Grid Gateway V2.0.0 Release Notes
- Oracle Utilities Smart Grid Gateway V2.0.0 Quick Install Guide
- Oracle Utilities Smart Grid Gateway V2.0.0 Install Documentation
- Oracle Utilities Smart Grid Gateway V2.0.0 User Documentation
- Oracle Utilities Smart Grid Gateway V2.0.0 Supplemental Documentation
- Oracle Utilities Application Framework V4.1.0 Multiplatform
- Oracle Utilities Application Framework V4.1.0 Single Fix Prerequisite Rollup for SGG V2.0.0

For more details about installing the single fix rollup, see the **Readme.txt** that is included with the rollup.

- Oracle Utilities Meter Data Framework V2.0.1.7 Multiplatform
- Oracle Utilities Smart Grid Gateway V2.0.0 Oracle Database Multiplatform

The Oracle Utilities Smart Grid Gateway Adapter for Echelon Media Pack consists of the following additional packages:

- Oracle Utilities Smart Grid Gateway Adapter for Echelon V2.0.0 User Documentation
- Oracle Utilities Smart Grid Gateway Adapter for Echelon V2.0.0 Multiplatform

The Oracle Utilities Smart Grid Gateway Adapter for Landis+Gyr Media Pack consists of the following additional packages:

- Oracle Utilities Smart Grid Gateway Adapter for Landis+Gyr V2.0.0 User Documentation
- Oracle Utilities Smart Grid Gateway Adapter for Landis+Gyr V2.0.0 Multiplatform

The Oracle Utilities Smart Grid Gateway Adapter for Sensus Media Pack consists of the following additional packages:

- Oracle Utilities Smart Grid Gateway Adapter for Sensus V2.0.0 User Documentation
- Oracle Utilities Smart Grid Gateway Adapter for Sensus V2.0.0 Multiplatform

The Oracle Utilities Smart Grid Gateway Adapter for Silver Spring Networks Media Pack consists of the following additional packages:

- Oracle Utilities Smart Grid Gateway Adapter for Silver Spring Networks V2.0.0 User Documentation
- Oracle Utilities Smart Grid Gateway Adapter for Silver Spring Networks V2.0.0 Multiplatform

The Oracle Utilities Smart Grid Gateway MV-90 Adapter for Itron Media Pack consists of the following additional packages:

- Oracle Utilities Smart Grid Gateway MV-90 Adapter for Itron V2.0.0 User Documentation

- Oracle Utilities Smart Grid Gateway MV-90 Adapter for Itron V2.0.0 Multiplatform

The Oracle Utilities Smart Grid Gateway Adapter Development Kit Media Pack consists of the following additional components:

- Oracle Utilities Smart Grid Gateway Adapter Development Kit V2.0.0 User Documentation
- Oracle Utilities Smart Grid Gateway Adapter Development Kit V2.0.0 Multiplatform

The Oracle Utilities Smart Grid Gateway Adapter for Itron OpenWay Media Pack consists of the following additional components:

- Oracle Utilities Smart Grid Gateway Adapter for Itron OpenWay V2.0.0 User Documentation
- Oracle Utilities Smart Grid Gateway Adapter for Itron OpenWay V2.0.0 Multiplatform

## Components for Oracle Utilities Smart Grid Gateway

The system includes the following components:

- All application processes and HTML/JSP pages that make up the user interface
- This Installation Guide, which describes the installation/upgrade process
- The latest User Documentation
- Release Notes describing functional changes for this version
- Database installation
- Data Dictionary
- System Table Guide
- XAI Client Software

---

# Network Environment Overview

The application is split into multiple tiers:

## Tier 1: Browser-Based Client

The central facility in the Oracle Utilities Smart Grid Gateway browser-based client is Internet Explorer.

Operating System: Windows XP, Windows 7

The following Operating System / Web Browser software is supported:

- Windows XP SP3 or higher with Internet Explorer 7.x or 8.x
- Windows 7 with Internet Explorer 8.x

## Tier 2: Web Application Server.

Oracle Utilities Smart Grid Gateway supports the following Web application servers:

- Oracle WebLogic 11gR1 (10.3.5, or 10.3.6)

## Tier 3: Database Server

Oracle Utilities Smart Grid Gateway supports the following databases:

- Oracle 11gR2 (11.2.0.1) Enterprise Edition
- Oracle 11gR2 (11.2.0.1) Standard Edition

**Note:** Oracle Database Enterprise Edition and the Partitioning and Advanced Compression options are not mandatory but recommended. Standard Edition should only be considered suitable for very small, pilot projects or development environments where scalability, performance, and database size-on-disk are not important considerations. Oracle Database Enterprise Edition, including the Advanced Compression and Partitioning options, is strongly recommended in all other situations.

## Certified and Supported Platforms

The installation has been certified to operate on many operating system, application server, and database server combinations. For the software requirements for each of these combinations, see the *Oracle Utilities Smart Grid Gateway Installation Guide*. This section includes the following topics:

- **Oracle Utilities Smart Grid Gateway Adapters**
- **Oracle Utilities Smart Grid Gateway OSB and SOA Adapters**
- **Oracle Database Servers**
- **Oracle WebLogic Server Information**
- **Supported Versions**

### Oracle Utilities Smart Grid Gateway Adapters

The following table details the operating system and application server combinations on which Oracle Utilities Smart Grid Gateway adapters have been tested and certified.

Operating System and Web Browser (Client)	Operating System (Server)	Chipset	Application Server	Database
	AIX 6.1 TL4 (64-bit)	POWER 64-bit	WebLogic 10.3.5 WebLogic 10.3.6	Oracle 11.2.0.1+
Windows XP SP3 (IE 7.x, 8.x)	Oracle Linux 5.5, 5.8, 6.2 (64-bit)	x86_64	WebLogic 10.3.5 WebLogic 10.3.6	Oracle 11.2.0.1+
Windows 7 (IE 8.x)	Red Hat Enterprise Linux 5.5, 5.8, 6.2 (64-bit)			
	Sun Solaris 10 Update 8 (64-bit)	SPARC	WebLogic 10.3.5 WebLogic 10.3.6	Oracle 11.2.0.1+
	Windows Server 2008 R2 (64-bit)	x86_64	WebLogic 10.3.5 WebLogic 10.3.6	Oracle 11.2.0.1+

## Oracle Utilities Smart Grid Gateway OSB and SOA Adapters

The following table details the operating system and application server combinations on which the adapters for Oracle Utilities Smart Grid Gateway adapters have been tested and certified.

Adapter	Operating System (Server)	Chipset	Application Server	Database
OSB Adapter	AIX 6.1 TL4 (64-bit)	POWER 64-bit	WebLogic 10.3.5 WebLogic 10.3.6	Oracle 11.2.0.1+
	Oracle Linux 5.5, 5.8, 6.2 (64-bit)	x86_64	WebLogic 10.3.5 WebLogic 10.3.6	Oracle 11.2.0.1+
SOA Adapter (Not applicable for MV90 Adapter for Itron)	Red Hat Enterprise Linux 5.5, 5.8, 6.2 (64-bit)			
	Sun Solaris 10 Update 8 (64-bit)	SPARC	WebLogic 10.3.5 WebLogic 10.3.6	Oracle 11.2.0.1+
	Windows Server 2008 R2 (64-bit)	x86_64	WebLogic 10.3.5 WebLogic 10.3.6	Oracle 11.2.0.1+

## Oracle Database Servers

Oracle Utilities Smart Grid Gateway 2.0.0 is supported with Oracle Database Server 11.2.0.1 on any of the operating systems listed above.

The Oracle 11.2.0.1 client is required for this version of the database server.

The following Oracle Database Server Editions are supported:

- Oracle Database Enterprise Edition
- Oracle Database Standard Edition

**Note:** Oracle Database Enterprise Edition and the Partitioning and Advanced Compression options are not mandatory but recommended. Standard Edition should only be considered suitable for very small, pilot projects or development environments where scalability, performance, and database size-on-disk are not important considerations. Oracle Database Enterprise Edition, including the Advanced Compression and Partitioning options, is strongly recommended in all other situations.

## Oracle WebLogic Server Information

The following Oracle WebLogic Server Editions are supported:

- Oracle WebLogic Server Standard Edition
- Oracle WebLogic Server Enterprise Edition

Although Oracle Utilities Smart Grid Gateway is supported only on the Oracle WebLogic application server, it can write to any JMS compliant queuing application by way of Oracle Service Bus. For more information about Oracle Service Bus, refer to the *Oracle Fusion Middleware Developers Guide for Oracle Service Bus*.

## Supported Versions

Oracle Utilities Smart Grid Gateway is supported on the following software versions:

- Oracle Utilities Application Framework (F1) version 4.1.0
- Oracle Utilities Meter Data Framework (D1) version 2.0.1.8.0

## Supported Head-End Systems

- Echelon NES version 4.1: for use with Oracle Utilities Smart Grid Gateway Adapter for Echelon version 2.0.0
- Landis+Gyr Command Center version 4.1: for use with Oracle Utilities Smart Grid Gateway Adapter for Landis+Gyr version 2.0.0
- Sensus RNI Gateway 3.1: for use with Oracle Utilities Smart Grid Gateway Adapter for Sensus version 2.0.0
- Silver Spring Networks UtilityIQ 4.5: for use with Oracle Utilities Smart Grid Gateway Adapter for Silver Spring Networks version 2.0.0

# Installing Oracle Utilities Smart Grid Gateway

For additional information on installing Oracle Utilities Smart Grid Gateway, see the *Oracle Utilities Smart Grid Gateway Installation Guide*.

## To install Oracle Utilities Smart Grid Gateway V2.0.0:

1. Install all required third-party software.
2. Install database. See *Oracle Utilities Smart Grid Gateway Database Administrator's Guide* for complete details.
3. Install Oracle Utilities Application Framework V4.1.0 (Application server only).
4. Oracle Utilities Application Framework V4.1.0 Service Pack 1 Multiplatform (Application server only)
5. Install Oracle Utilities Meter Data Framework V2.0.1.8.0 (Application server only).
6. Install Oracle Utilities Smart Grid Gateway V2.0.0.8.0 Adapter Components (Application server only).
  - Adapter for Echelon
  - Adapter for Landis+Gyr
  - Adapter for Sensus
  - Adapter for Silver Spring Networks
  - MV90 Adapter for Itron
  - Adapter Development Kit
  - Adapter for Itron OpenWay
7. Generate Application Viewer items (this includes the Data Dictionary).

## To Install Oracle Utilities Smart Grid Gateway V2.0.0 Service Pack 9:

See *Oracle Utilities Smart Grid Gateway Installation Guide*, Chapter 9: Installing Service Packs, for complete details on installing Oracle Utilities Smart Grid Gateway version 2.0.0.9.0 on top of an existing Oracle Utilities Smart Grid Gateway 2.0.0.x installation.

## Oracle VM Support

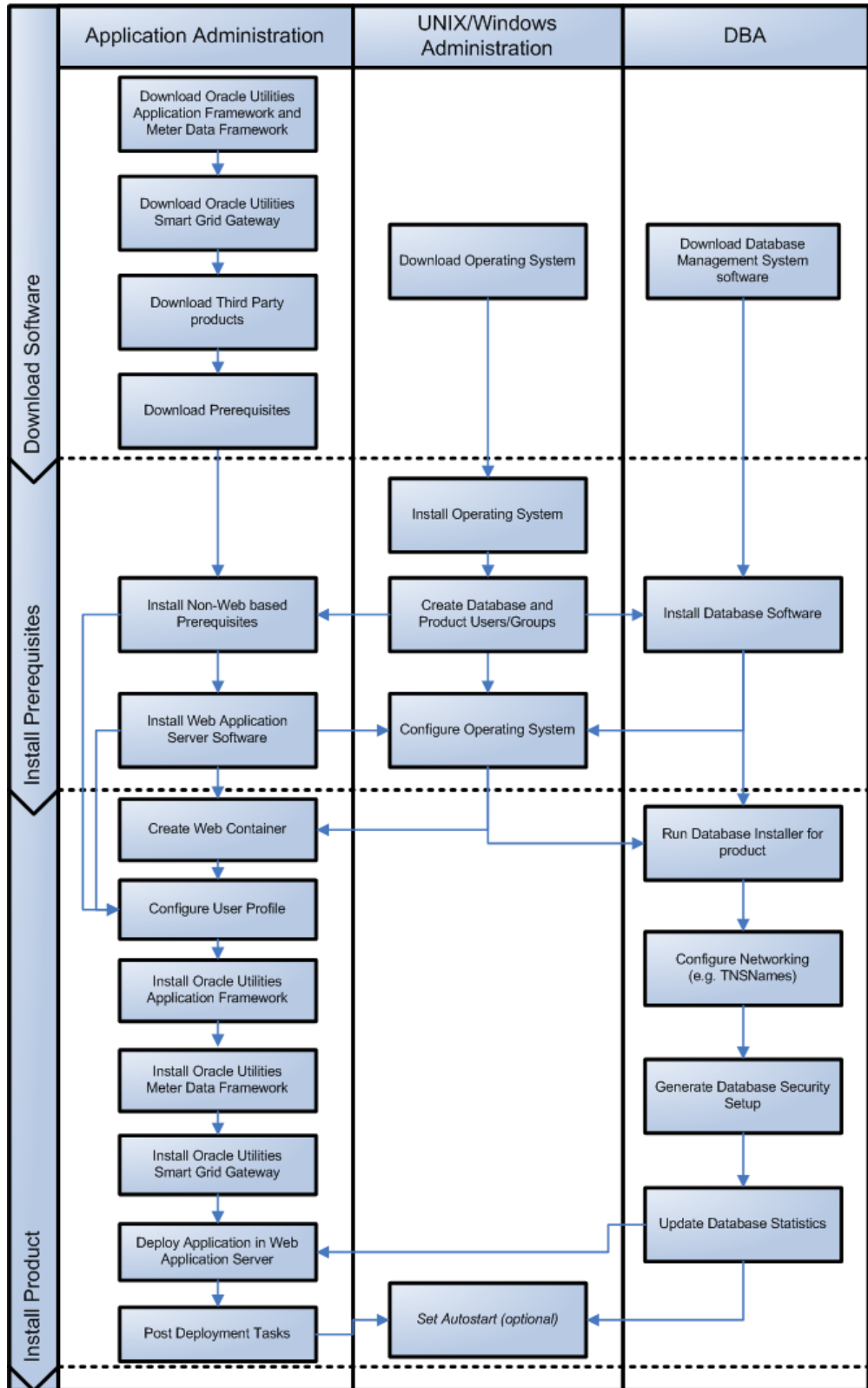
Oracle Utilities Smart Grid Gateway V2.0.0 is supported on Oracle VM 2.2.1 for supported releases of Oracle Enterprise Linux and Microsoft Windows operating systems.

## Oracle Support Policy Regarding VMware

Please refer to My Oracle Support knowledge base article 249212.1 for Oracle's support policy regarding VMware.

## Installation and Configuration Overview

The following diagram provides an overview of the steps that need to be taken to install and configure Oracle Utilities Smart Grid Gateway:



---

## Additional Information for Installing Other Oracle Software

Please read this section and follow directions if you purchased a license from Oracle for any of the following products:

- Oracle WebLogic 11gR1

### Oracle WebLogic 11gR1

Customers must download Oracle WebLogic Server from the Oracle Software Delivery Cloud. The version of Oracle WebLogic Server is listed in the Oracle Utilities Smart Grid Gateway V2.0.0 Supported Platforms Summary section.

**Note:** If you install a temporary license for Oracle WebLogic, please note that this license is limited to 5 non-current users. You will need to install the full license.

#### Install the Oracle WebLogic license

To apply a full license you will need to complete the following steps:

1. The license keys for Oracle WebLogic products are located at - <http://licensecodes.oracle.com/bea.html>
2. The following products are supported: Oracle WebLogic Server Standard Edition and Oracle WebLogic Server Enterprise Edition.
3. At the time of release of this document the license key on the Web site for Oracle WebLogic Server Standard Edition is BEA WebLogic Server Advantage Edition. The license key for Oracle WebLogic Server Enterprise Edition on the Web site is BEA WebLogic Server Premium Edition.
4. Shut down the Oracle Utilities Smart Grid Gateway application server.
5. Follow the instructions from the Oracle WebLogic installation document to install the license key.
6. Start the Oracle Utilities Smart Grid Gateway application server.

### Contacting Oracle Support

Please follow this link <http://www.oracle.com/support/index.html> to contact Oracle Support

