

Oracle Utilities Smart Grid Gateway

Licensing Information User Manual

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Contents

Contents

Chapter 1

Introduction	1-1
--------------------	-----

Chapter 2

Licensing Information	2-1
License Restrictions Matrix.....	2-4
Service and Measurement Data Foundation Functionality.....	2-5

Chapter 3

Third Party Notices	3-1
Open Source or Other Separately Licensed Software	3-1

Chapter 4

Third Party Notices and Licenses	4-1
Notice Concerning Usage of ANTLR.....	4-2
Notice Concerning Usage of Apache Software.....	4-2
Notice Concerning Usage of ASM.....	4-6
Notice Concerning Usage of CodeMirror.....	4-7
Notice Concerning Usage of Concurrent	4-7
Notice Concerning Usage of DOM4J	4-7
Notice Concerning Usage of FullCalendar	4-8
Notice Concerning Usage of International Components for Unicode (ICU4J)	4-8
Notice Concerning Usage of Jaxen	4-9
Notice Concerning Usage of JQuery and JQueryMobile	4-9
Notice Concerning Usage of JQuery UI	4-9
Notice Concerning Usage of JSignature.....	4-10
Notice Concerning Usage of Knockout.....	4-10
Notice Concerning Usage of SLF4J.....	4-11
Notice Concerning Usage of Staxmate.....	4-11
Notice Concerning Usage of XMLPULL	4-12
Notice Concerning Usage of XStream	4-12
Notice Concerning Usage of YUI.....	4-12

Chapter 1

Introduction

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Chapter 2

Licensing Information

Product	Subproduct	Licensing Description
Oracle Utilities Smart Grid Gateway	Oracle Utilities Smart Grid Gateway	<p>Oracle Utilities Smart Grid Gateway provides the core functionality for measurement data and device event loading and processing, and issuing and tracking smart meter command requests. Supported commands include: Remote Connect, Remote Disconnect, Commission Device, Decommission Device, On-Demand Read, Device Status Check, and Demand Reset.</p> <p>Included Products: Oracle Utilities Service and Measurement Data Foundation</p> <p>Prerequisites:</p> <ul style="list-style-type: none">• Oracle Database Enterprise Edition• Oracle WebLogic Server Enterprise Edition• Oracle SOA Suite (BPEL)• Oracle Service Bus <p>Restrictions: The Oracle Utilities Service and Measurement Data Foundation provides functionality used by multiple Oracle Utilities products, including Oracle Utilities Meter Data Management and Oracle Utilities Smart Grid Gateway. Some of the functionality provided with the Oracle Utilities Service and Measurement Data Foundation is restricted, and can only be used if specific products have been licensed. See License Restrictions Matrix on page 2-4 for more information.</p>

Product	Subproduct	Licensing Description
	Oracle Utilities Information Lifecycle Management for Meter Data	<p>Oracle Utilities Information Lifecycle Management for Meter Data contains a set of processes to support Information Lifecycle Management (ILM) for a number of high volume transactional data objects. The processes identify eligible historical records to facilitate the migration of data to lower cost storage or archived database.</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> Oracle Database Enterprise Edition and the Partitioning option are prerequisites for this option.
	Oracle Utilities Smart Grid Gateway Adapter Development Kit	<p>Provides the ability to configure standards-based integration to AMI head-end systems not currently supported by Oracle Utilities Smart Grid Gateway productized adapters, and enables integration with both AMI and AMR systems to support both data loading and smart meter command integration.</p> <p>Supported commands include Remote Connect, Remote Disconnect, Meter Commissioning, Meter Decommissioning, Device Status Check/Meter Ping, and On-Demand Read.</p>
	Oracle Utilities Smart Grid Gateway Adapter for Landis+Gyr	<p>Provides productized smart command integration with Landis + Gyr Gridstream Command Center, and converts Landis + Gyr measurement and device event data into a unified data format for use by downstream applications such as Oracle Utilities Meter Data Management.</p> <p>Supported commands include Remote Connect, Remote Disconnect, Meter Commissioning, Meter Decommissioning, Meter Retirement, Device Status Check/Meter Ping, On-Demand Read, and Demand Reset.</p>
	Oracle Utilities Smart Grid Gateway Adapter for Echelon	<p>Provides productized smart meter integration to Echelon NES., and converts bulk usage and event data from the Echelon XML format into a unified data format for use by downstream applications such as Oracle Utilities Meter Data Management.</p> <p>Supported commands include Remote Connect, Remote Disconnect, Meter Commissioning, Meter Decommissioning, Device Status Check/Meter Ping, and On-Demand Read.</p>
	Oracle Utilities Smart Grid Gateway MV-90 Adapter for Itron	<p>Supports conversion of MV-90 binary measurement data and interval status codes for use by downstream applications such as Oracle Utilities Meter Data Management.</p>
	Oracle Utilities Smart Grid Gateway Adapter for Sensus RNI	<p>Provides productized smart meter integration to Sensus RNI and converts usage and event data from the Sensus RNI specific format into a unified data format for use by downstream applications such as Oracle Utilities Meter Data Management.</p> <p>Supported commands include Remote Connect, Remote Disconnect, Meter Commissioning, Meter Decommissioning, Device Status Check/Meter Ping, and On-Demand Read.</p>

Product	Subproduct	Licensing Description
	Oracle Utilities Smart Grid Gateway Adapter for Silver Spring Networks	<p>Provides productized smart meter integration to Silver Spring Networks Utility IQ, and converts usage and event data from the Silver Spring Networks format into a unified data format for use by downstream applications such as Oracle Utilities Meter Data Management.</p> <p>Supported commands include Remote Connect, Remote Disconnect, Meter Commissioning, Meter Decommissioning, Device Status Check/Meter Ping, and On-Demand Read.</p>
	Oracle Utilities Smart Grid Gateway Adapter for Itron OpenWay	<p>Provides productized smart meter integration to the Itron OpenWay head-end system, and converts usage and event data from the Itron OpenWay format into a unified data format for use by downstream applications such as Oracle Utilities Meter Data Management. Also provides a mechanism to regularly schedule requests of this data.</p> <p>Supported commands include Remote Connect, Remote Disconnect, Meter Commissioning, Meter Decommissioning, Device Status Check/Meter Ping, and On-Demand Read.</p>
	Oracle Utilities Service Order Management	<p>Provides orchestration of service orders that involve field work and/or smart meter commands through integration with customer information systems, mobile field work systems, and head-end systems. Supported types of service orders include:</p> <ul style="list-style-type: none"> • Enable / Disable Service • Disconnect for Non-Payment / Reconnect for Payment • Meter Exchange • Move In / Move Out

License Restrictions Matrix

The Oracle Utilities Service and Measurement Data Foundation provides functionality used by multiple Oracle Utilities products, including Oracle Utilities Meter Data Management and Oracle Utilities Smart Grid Gateway. Some of the functionality provided with the Oracle Utilities Service and Measurement Data Foundation is restricted, and can only be used if specific products have been licensed. The table below indicates the specific functional areas included with each of the listed products based on the Oracle Utilities Service and Measurement Data Foundation.

- “✓” indicates that the functional area is included with the product.
- “✓*” indicates that the functional area is included with the product, but in order to use the functionality customers must license additional products. For example, a customer licensing Oracle Utilities Smart Grid Gateway who wishes to use information lifecycle management must also license Information Lifecycle Management for Meter Data.
- “X” indicates that the functional area is not included with the product.

In order to use functionality listed as “not included”, customers must license the product that includes the desired functionality. For example, a customer licensing Oracle Utilities Smart Grid Gateway who wishes to perform validation, editing, and estimations on incoming measurement data must also license Oracle Utilities Meter Data Management.

- “C” indicates that customers can develop custom implementations and interfaces to support this functionality. Note that use of any base package business objects (and related algorithms, business services, etc.) provided with the Oracle Utilities Service and Measurement Data Foundation to support this functionality is prohibited unless the customer has also licensed Oracle Utilities Smart Grid Gateway.

Functionality	Oracle Utilities Meter Data Management	Oracle Utilities Smart Grid Gateway	Oracle Utilities Analytics	Oracle Utilities Customer Self Service
Measurement and Service Data Model	✓	✓	X	X
Validation, Editing, and Estimation Functionality	✓	X	X	X
Measurement Services	✓	X	X	X
Usage and Bill Determinant Calculations	✓	X	X	X
Information Lifecycle Management for Meter Data	✓*	✓*	X	X
Analytics	X	X	✓	X
Customer Self Service	X	X	X	✓
Usage and Event Upload Statistics Processing	X	✓	X	X
Smart Meter Command Processing	C	✓	X	X

Functionality	Oracle Utilities Meter Data Management	Oracle Utilities Smart Grid Gateway	Oracle Utilities Analytics	Oracle Utilities Customer Self Service
Outage Integration	X	✓	X	X
Service Order Management	X	✓*	X	X
DataConnect	✓	X	X	X

Service and Measurement Data Foundation Functionality

The table below describes the functional areas provided with the Oracle Utilities Service and Measurement Data Foundation.

Functional Area	Description
Measurement and Service Data Model	The measurement and service data model contains database tables and related functionality used to define and store meters, devices, unmetered items, service points, and measurement data.
Validation, Editing, and Estimation Engine	The VEE engine provides the core functionality used to perform validation, editing, and estimation on usage data. Specific VEE rules are included with Oracle Utilities Meter Data Management.
Measurement Services	Measurement services are used to process meter reading data and manipulate measurements to support billing or other downstream processes.
Usage and Bill Determinant Calculations	The usage engine and generic usage rules provide the core functionality used to perform usage calculations based on measurement data. Specific usage rules are included with Oracle Utilities Meter Data Management.
Information Lifecycle Management for Meter Data	Oracle Utilities Information Lifecycle Management for Meter Data contains a set of processes to support Information Lifecycle Management (ILM) for a number of high volume transactional data objects. The processes identify eligible historical records to facilitate the migration of data to lower cost storage or archived database. Note: Oracle Database Enterprise Edition and the Partitioning option are prerequisites for this option.
Analytics	Base package batch processes are used to extract and load data for use in analytics applications such as Oracle Utilities Analytics.
Customer Self Service	Web services are used to access data via the Oracle Utilities Customer Self Service application.
Usage and Event Upload Statistics Processing	Processing and compiling upload statistics related to upload of usage and device events.

Functional Area	Description
Smart Meter Command Processing	<p>Executing smart meter commands and communicating with a head-end system for purposes of issuing commands such as remote connect, commission meter, etc.</p> <p>Note: Customers who license Oracle Utilities Meter Data Management can build custom interfaces to AMI vendor head-end systems to support smart meter command processes. However, use of the command business objects (and related objects) included with the Oracle Utilities Service and Measurement Data Foundation without licensing Oracle Utilities Smart Grid Gateway is prohibited.</p>
Outage Integration	Communicating with Oracle Utilities Network Management System, including sending/receiving bulk ping commands, receiving device events from Oracle Utilities Smart Grid Gateway, and suppression of device event notifications (allowing a suppression activity to be configured for a meter or service point so that specified device event notifications will not be sent to Oracle Utilities Network Management System).
Service Order Management	Orchestration of service orders that involve field work and/or smart meter commands through integration with customer information systems, mobile field work systems, and head-end systems.
DataConnect	Components used to extract interval measurements data and master data for integration with external energy management systems.

Chapter 3

Third Party Notices

This chapter provides open source third-party notices for components used by Oracle Utilities Smart Grid Gateway.

Open Source or Other Separately Licensed Software

Required notices for open source or other separately licensed software products or components distributed in this product are identified in the following table along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

Provider	Component(s)	License Information
ANTLR	ANTLR 2.7.7 ANTLR 4.5 ANTLR RUNTIME 3.2 ANTLR RUNTIME 4.5.3	Copyright (c) 2012 Terence Parr and Sam Harwell All rights reserved. A copy of the license appears in Chapter 4: Third-Party Licenses.
Apache Software Foundation	Apache XMLBeans 2.6.0 Ant 1.7.1 BSF 2.4.0 Commons Beanutils 1.8.3 Commons-cli 1.1 Commons-codec 1.9 Commons-collections 3.2.2 Commons-Fileupload 1.3.1 Commons-Logging 1.2	Copyright © 1999-2012 The Apache Software Foundation Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 . A copy of the license appears in Chapter 4: Third-Party Licenses.

Provider	Component(s)	License Information
	Cglib 3.1 Commons-httpclient 4.5.1 commons-io 1.3.2 commons-lang 2.2 Groovy 2.4.5 HTTP Components Cache 4.1.2 HttpComponents HttpClient 4.1.2 HTTP Components Mime 4.1.2 HttpCore 4.1.2 HttpCore 4.4.3 Log4j 1.2.17 Serializer 2.7.2 Trinidad n/a Velocity 1.4 Xalan 2.7.2	
Castor Project	Castor 1.3.2	Copyright 2004-2005 Werner Guttman Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 A copy of the license appears in Chapter 4: Third-Party Licenses.
Codehaus	Jackson 1.9.2 Jettison 1.3.7	Copyright 2006 Envoi Solutions LLC Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 A copy of the license appears in Chapter 4: Third-Party Licenses in Chapter 4: Third-Party Licenses.
Doug Lea	Concurrent 1.3.4	All classes are released to the public domain and may be used for any purpose whatsoever without permission or acknowledgment. http://g.oswego.edu/dl/classes/EDU/oswego/cs/dl/util/concurrent/intro.html
Google	jcl-over-slf4j 1.7.7 (update to 1.5.8 LT 20066)	Copyright 2001-2004 The Apache Software Foundation. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 A copy of the license appears in Chapter 4: Third-Party Licenses.

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International Business Machines Corporation	ICU4J 49.1	Copyright (c) 1995-2010 International Business Machines Corporation and others. All rights reserved.
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MIT	CodeMirror 5.18.2	<p>Copyright (C) 2016 by Marijn Haverbeke <marijnh@gmail.com> and others</p> <p>A copy of the license appears in Chapter 4: Third-Party Licenses.</p>
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Paul Bakaus	jQueryUI 1.11.0	<p>Copyright (c) 2010 Paul Bakaus, http://jqueryui.com/.</p> <p>A copy of the license appears in Chapter 4: Third-Party Licenses.</p>

Provider	Component(s)	License Information
Quality Open Software	Simple Logging Façade for Java (SLF4J) 1.6.4	<p>Copyright (c) 2004-2011 QOS.ch All rights reserved.</p> <p>See http://www.slf4j.org/license.html</p> <p>A copy of the license appears in Chapter 4: Third-Party Licenses.</p>
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XmlPull Project (xmlpull.org)	Xmlpull 1.1.3.1	<p>Initial authors:</p> <p>Stefan Haustein Aleksander Slominski</p> <p>2001-12-12</p> <p>A copy of the license appears in Chapter 4: Third-Party Licenses.</p>

Chapter 4

Third Party Notices and Licenses

This section provides license and copyright information for the associated products. This includes the following:

- [Notice Concerning Usage of ANTLR](#)
- [Notice Concerning Usage of Apache Software](#)
- [Notice Concerning Usage of ASM](#)
- [Notice Concerning Usage of CodeMirror](#)
- [Notice Concerning Usage of Concurrent](#)
- [Notice Concerning Usage of DOM4J](#)
- [Notice Concerning Usage of FullCalendar](#)
- [Notice Concerning Usage of International Components for Unicode \(ICU4J\)](#)
- [Notice Concerning Usage of Jaxen](#)
- [Notice Concerning Usage of JQuery and JQueryMobile](#)
- [Notice Concerning Usage of JQuery UI](#)
- [Notice Concerning Usage of JSignature](#)
- [Notice Concerning Usage of Knockout](#)
- [Notice Concerning Usage of SLF4J](#)
- [Notice Concerning Usage of Staxmate](#)
- [Notice Concerning Usage of XMLPULL](#)
- [Notice Concerning Usage of XStream](#)
- [Notice Concerning Usage of YUI](#)

Third-Party Products

The following sections provide notices and information about the third party products indicated.

Notice Concerning Usage of ANTLR

[The BSD License]

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- ant1.7.1.jar
- bsf-2.4.0.jar
- castor-1.3.2-core.jar
- castor-1.3.2-xml-schema.jar
- castor-1.3.2-xml.jar
- cglib-3.1.jar
- commons-logging-1.2.jar
- ehcache-core-2.5.2.jar
- commons-beanutils-core-1.8.3.jar
- commons-cli-1.1.jar
- commons-codec-1.9.jar

-
- commons-collections-3.2.2.jar
 - commons-fileupload-1.3.1.jar
 - commons-httpclient-4.5.1.jar
 - commons-io-1.3.2.jar
 - commons-lang-2.2.jar
 - commons-logging-1.2.jar
 - ehcache-core-2.5.2.jar
 - groovy-2.4.5.jar
 - httpcore-4.4.3.jar
 - jackson-core-asl-1.9.2.jar
 - jackson-jaxrs-1.9.2.jar
 - jackson-mapper-asl-1.9.2.jar
 - jackson-xc-1.9.2.jar
 - jettison-1.3.7.jar
 - jcl-over-slf4j-1.7.7.jar
 - joda-time-2.3.jar
 - log4j-1.2.17.jar
 - org.apache.http.components.httpclient-4.1.2.jar
 - org.apache.http.components.httpclient-cache-4.1.2.jar
 - org.apache.http.components.httpcore-4.1.2.jar
 - org.apache.http.components.httpmime-4.1.2.jar
 - serializer-2.7.2.jar
 - trinidad-api-2.1.1.jar
 - trinidad-impl-2.1.1.jar
 - velocity-1.4.jar
 - xalan-2.7.2.jar

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- Cordova BackgroundMode plugin
- Cordova Camera plugin
- Cordova Device plugin
- Cordova File plugin
- Cordova File Transfer plugin
- Cordova Geolocation plugin
- Cordova InAppBrowser plugin
- Cordova Network Information plugin
- Cordova Plugin Statusbar

-
- Cordova SQLite Storage Adapter
 - Cordova Websocket plugin
 - Cordova WebSQL plugin
 - Cordova Whitelist plugin
 - Cordova Zip plugin

Apache License

Version 2.0, January 2004

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