

# **Oracle Utilities Market Settlements Management**

Licensing Information User Manual

Release 2.2.0.3

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# Chapter 1

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## Introduction

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# Chapter 2

## Licensing Information

Product	Subproduct	Licensing Information
Oracle Utilities Market Settlements Management	Oracle Utilities Market Settlements Management	<p>Oracle Utilities Market Settlements Management provides the core functionality for calculating and settling energy changes.</p> <p><b>Included Products:</b> Oracle Utilities Service and Measurement Data Foundation</p> <p><b>Prerequisites:</b></p> <ul style="list-style-type: none"><li>• Oracle Database Enterprise Edition</li><li>• Oracle WebLogic Server Enterprise Edition</li></ul> <p><b>Restrictions:</b> The Oracle Utilities Service and Measurement Data Foundation and Oracle Utilities Meter Data Management provide functionality used by multiple Oracle Utilities products. Some of the functionality provided with the Oracle Utilities Service and Measurement Data Foundation and Oracle Utilities Meter Data Management is restricted, and can only be used if specific products have been licensed. See <b>License Restrictions Matrix</b> on page 2-3 for more information.</p>

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Product	Subproduct	Licensing Information
	Oracle Utilities Information Lifecycle Management for Meter Data	<p data-bbox="873 218 1507 405">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 data-bbox="873 443 1024 468"><b>Prerequisites:</b></p> <ul data-bbox="922 474 1507 533" style="list-style-type: none"><li data-bbox="922 474 1507 533">• Oracle Database Enterprise Edition and the Partitioning option are prerequisites for this option.</li></ul> <p data-bbox="873 552 1013 577"><b>Restrictions:</b></p> <p data-bbox="873 583 1484 674">Components provided with ILM including batch jobs, algorithms, and database columns are restricted and CANNOT be used to develop custom archiving processes.</p> <p data-bbox="873 709 1484 735">A separate license is required for each production instance.</p>

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## License Restrictions Matrix

The Oracle Utilities meter solution products include functionality used by multiple Oracle Utilities products. Some of the functionality provided with the Oracle Utilities meter solution products 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.

- “✓” 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 Meter Data Management who wishes to use information lifecycle management must also license Information Lifecycle Management for Meter Data.
- “✗” 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 meter solution to support meter command 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 Market Settlements Management	Oracle Utilities Analytics	Oracle Utilities Customer Self Service
Measurement and Service Data Model	✓	✓	✓	✗	✗
Validation and Editing Functionality	✓	✗	C	✗	✗
Estimation and Forecasting Functionality	✓	✗	✓	✗	✗
Measurement Services and Aggregations	✓	✗	✓	✗	✗
Consumer Level Usage and Bill Determinant Calculations	✓	✗	✗	✗	✗
Usage Calculations for Settlement and Wholesale Billing Processes	✗	✗	✓	✗	✗

Functionality	Oracle Utilities Meter Data Management	Oracle Utilities Smart Grid Gateway	Oracle Utilities Market Settlements Management	Oracle Utilities Analytics	Oracle Utilities Customer Self Service
Information Lifecycle Management for Meter Data	✓*	✓*	✓*	✗	✗
Analytics	✗	✗	✗	✓	✗
Customer Self Service	✗	✗	✗	✗	✓
Usage and Event Upload Statistics Processing	✗	✓	✗	✗	✗
Smart Meter Command Processing	C	✓	✗	✗	✗
Outage Integration	✗	✓	✗	✗	✗
Service Order Management	✗	✓*	✗	✗	✗
DataConnect	✓	✗	✗	✗	✗
Settlement Processes	✗	✗	✓	✗	✗
Wholesale Gas Operations	✗	✗	✓	✗	✗

## Functional Areas

The table below describes the functional areas provided with the Oracle Utilities meter solution products.

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 and Editing Functionality	The engine that provides the core functionality used to perform validation and editing on usage data.
Estimation and Forecasting Functionality	Processes to estimate missing usage and forecast future energy use.
Measurement Services and Aggregation	Measurement services are used to process meter reading data and manipulate measurements to support billing or other downstream processes.
Consumer Level Usage and Bill Determinant Calculations	The usage engine and usage rules provide the core functionality used to perform usage calculations based on measurement data.



Functional Area	Description
Usage Calculations for Settlement and Wholesale Billing Processes	The usage engine and usage rules provide the core functionality used to perform settlement and wholesale billing calculations based on measurement data.
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.  <b>Note:</b> Oracle Database Enterprise Edition and the Partitioning option are prerequisites for this option.  Components provided with ILM including batch jobs, algorithms, and database columns are restricted and CANNOT be used to develop custom archiving processes.
Analytics	Base package batch processes used to extract and load data for use in analytics applications such as Oracle Utilities Analytics.
Customer Self Service	Web services 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.
Smart Meter Command Processing	Executing smart meter commands and communicating with a head-end system for purposes of issuing commands such as remote connect, commission meter, etc.  <b>Note:</b> 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.
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.
Settlement Processes	Components used for settlement processes: schedules, unaccounted for energy (UFE) calculations, capacity calculations, procurement, and true up processes.
Wholesale Gas Operations	Components used for wholesale gas operations: nominations, bids, scheduling and transportation.

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Functional Area	Description
Forecasting Rules	Rules used to forecast future energy use.

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# Chapter 3

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Adam Shaw	FullCalendar	3.4.0	Copyright (c) 2015 Adam Shaw
ANTLR	ANTLR	4.5	Copyright (c) 2012 Terence Parr and Sam Harwell All rights reserved.
ANTLR	ANTLR	4.5.3	Copyright (c) 2012 Terence Parr and Sam Harwell All rights reserved.
ANTLR	Antlr.runtime	3.2	Copyright (c) 2012 Terence Parr and Sam Harwell All rights reserved.
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Apache	Apache XMLBeans	2.6.0	
Apache	bsf.jar	2.4.0	
Apache	cglib	3.2.4	
Apache	commons-cli	1.3.1	
Apache	commons-codec	1.9	
Apache	commons-collections	3.2.2	
Apache	commons-Fileupload	1.3.2	
Apache	commons-io	1.3.2	

<b>Provider</b>	<b>Component</b>	<b>Version</b>	<b>License Information</b>
Apache	commons-lang	2.2	
Apache	commons-Logging	1.2	
Apache	Groovy	2.4.5	
Apache	HTTP Components Cache	4.1.2	
Apache	HTTP Components Mime	4.1.2	
Apache	HttpComponents Core	4.4.9	
Apache	HttpComponents HttpClient	4.5.5	
Apache	Log4j	2.8.2	
Apache	Velocity	1.7	
Apache Software Foundation	Apache Cordova	7.0.0	
Apache Software Foundation	commons Beanutils	1.9.3	
Apache Software Foundation	Cordova Android	6.2.2	
Apache Software Foundation	Cordova Camera Plugin	2.4.1	
Apache Software Foundation	Cordova Device Plugin	1.1.2	
Apache Software Foundation	Cordova File Plugin	4.3.2	
Apache Software Foundation	Cordova File Transfer Plugin	1.3.0	
Apache Software Foundation	Cordova Geolocation Plugin	1.0.1	
Apache Software Foundation	Cordova inappbrowser plugin	1.7.0	
Apache Software Foundation	Cordova iOS	4.4.0	

<b>Provider</b>	<b>Component</b>	<b>Version</b>	<b>License Information</b>
Apache Software Foundation	Cordova Network Information Plugin	1.0.1	
Apache Software Foundation	Cordova Whitelist Plugin	1.0.0	
Apache Software Foundation	cordova-plugin-compat	1.1.0	
Brinley Ang	JSignature	2	Copyright (c) 2012 Willow Systems Corp <a href="http://willow-systems.com">http://willow-systems.com</a>
Castor Project	Castor	1.4.1	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 <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a>
Chromium	Cordova Zip Plugin	3.0.0	
Codehaus	Jettison	1.3.8	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 <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a>
David Olson	Timezone Data 2010j	2010j	
FasterXML, LLC	Jackson	2.8.5	This copy of Jackson JSON processor streaming parser/generator is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.  You may obtain a copy of the License at <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a>
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John Resig	jQuery	3.2.1	Copyright (c) 2011 John Resig, <a href="http://jquery.com/">http://jquery.com/</a>
jQuery	jQueryUI	1.12.1	Copyright (c) 2010 Paul Bakaus, <a href="http://jqueryui.com/">http://jqueryui.com/</a> .
jQuery	jQueryMobile	1.4.2	Copyright 2013 jQuery Foundation and other contributors <a href="http://jquery.com/">http://jquery.com/</a>
Marijn Haverbeke	CodeMirror	5.25.2	Copyright (C) 2017 by Marijn Haverbeke <marijnh@gmail.com> and others
Opensource	Cordova App-Event Plugin	1.2.0	
Opensource	Cordova BackgroundFetch	4.0.0	
Opensource	Cordova Local Notification Plugin	0.8.5	
Opensource	Cordova SQLite storage adapter	1.4.2	
Opensource	Cordova Websocket PlugIn (KNOWLEDGECODE)	0.11.0	
PhoneGap	Cordova Plugin for Barcode Scanner	3.6.3	
Quality Open Software	Simple Logging Façade for Java (SLF4J)	1.6.4	Copyright (c) 2004-2011 QOS.ch All rights reserved.  Refer to <a href="http://www.slf4j.org/license.html">http://www.slf4j.org/license.html</a> .
Red Hat	jboss-logging	3.3.0. FINAL	
Sebastián Katzer	Cordova BackgroundMode PlugIn	0.6.4	
Steven Sanderson	Knockout Mapping	2.4.1	Copyright (c) Steven Sanderson, Roy Jacobs
Steven Sanderson	Knockout.js	3.2.0 (update to 3.0.0 LT 15953)	Copyright (c) Steven Sanderson, Roy Jacobs
SmartBear Software	swagger-ui	3.18.1	Copyright (c) 2016 SmartBear Software
Tatu Saloranta	StaxMate	2.0.1	Copyright (c) 2007, Tatu Saloranta All rights reserved..
Terence Parr	ANTLR	2.7.7	Copyright (c) 2005-2009 Terence Parr All rights reserved. BSD License: <a href="http://opensource.org/licenses/BSD-3-Clause">http://opensource.org/licenses/BSD-3-Clause</a> .

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XmlPull Project (xmlpull.org)	Xmlpull	1.1.3.1	Initial authors:  Stefan Haustein Aleksander Slominski  2001-12-12

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- [Notice Concerning Usage of JQueryMobile](#)
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- ant1.10.1.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
- 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-2.8.5.jar
- jettison-1.3.7.jar
- jcl-over-slf4j-1.7.7.jar
- joda-time-2.3.jar
- log4j-api-2.8.2.jar
- log4j-core-2.8.2.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 Local Notification plugin
- Cordova Network Information plugin
- Cordova Plugin Statusbar
- Cordova SQLite Storage Adapter
- Cordova Websocket plugin
- Cordova WebSQL plugin
- Cordova Whitelist plugin
- Cordova Zip plugin

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jQuery BBQ: Back Button & Query Library - v1.2.1 - 2/17/2010

<http://benalman.com/projects/jquery-bbq-plugin/>

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jQuery Wiggle

Author: WonderGroup, Jordan Thomas

URL: <http://labs.wondergroup.com/demos/mini-ui/index.html>

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JSON Editor v0.7.22 - JSON Schema -> HTML Editor

By Jeremy Dorn - <https://github.com/jdorn/json-editor/>

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swagger-ui.js

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