

Oracle Utilities Meter Data Management

Licensing Information User Manual

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Chapter 1

Introduction

This Licensing Information User Manual document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the “Program(s)”). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (<https://edelivery.oracle.com>) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle’s Software Investment Guide (<http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html>), and/or contact the applicable Oracle License Management Services representative listed on <http://www.oracle.com/us/corporate/license-management-services/index.html>.

Chapter 2

Licensing Information

Product	Subproduct	Licensing Information
Oracle Utilities Meter Data Management	Oracle Utilities Meter Data Management	<p>Oracle Utilities Meter Data Management provides the core functionality for meter data management, usage validation, editing, and estimation functionality, and bill determinant calculation capabilities.</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 <p>Restrictions:</p> <ul style="list-style-type: none">• 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.• Oracle Utilities Customer Self Service Oracle Utilities Meter Data Management Inbound Web Services commencing with 'WX' may only be used when users have separately licensed Oracle Utilities Customer Self Service.

Product	Subproduct	Licensing Information
	Oracle Utilities Meter Data Management Integration Suite	<p>Oracle Utilities Meter Data Management Integration Suite contains a set of SOAP and REST APIs that belong to the web service category of 'Integration Suite APIs' and corresponding Service Scripts that are secured with the 'Integration Suite API' Application Service by default. These may be used to integrate to other products or solutions.</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> • Oracle Utilities Meter Data Management
	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. <p>Restrictions:</p> <p>Components provided with ILM including batch jobs, algorithms, and database columns are restricted and CANNOT be used to develop custom archiving processes.</p>
	Oracle Utilities Meter Data Management (Restricted Use)	<p>Oracle Utilities Customer Care & Billing (CC&B) Rating & Billing for Interval Data for Residential Customers and Oracle Utilities Customer Care & Billing Rating & Billing for Interval Data for Commercial and Industrial Customers include licenses to Oracle Utilities Meter Data Management (Restricted Use) and Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management. Oracle Utilities Meter Data Management (Restricted Use) is restricted to the following functions solely to support use of billing functions in Oracle Utilities Customer Care and Billing:</p> <ul style="list-style-type: none"> • Loading interval data* • Limited interval data validation, editing, and estimation (VEE) functionality (restricted to: Interval Size Validation, Interval Spike Check, and Interval Averaging Estimation) • Creating usage transactions and bill determinants to support interval billing processes. <p>Any other use is NOT included and requires a separate full use license for Oracle Utilities Meter Data Management.</p>

Product	Subproduct	Licensing Information
		<p>Note: This restricted use license allows customers to create custom rules to support validating and estimating interval measurements and creating bill determinants from interval data. This license does NOT allow customers to create custom components related to other processes such as processing scalar / register read data, TOU meter register, device events, smart meter commands, non-billing aggregations, service orders, reader remarks, exporting data to other non-CC&B systems, etc.</p> <p>* Interval data is defined as meter readings or quantities read at fixed time periods of at least once per hour (interval data does not include scalar/register readings or device events).</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 <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>

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. Note: 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. 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.
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.

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

Chapter 3

Third Party Notices

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.

Note: A copy of each license appears in the Third-Party License chapter, unless otherwise noted.

Provider	Component	Version	License Information
Adam Shaw	FullCalendar	3.10.2	Copyright (c) 2015 Adam Shaw
Adriano Di Giovanni	cordova-plugin-shared-preferences	0.1.0	Copyright (c) 2017 Adriano Di Giovanni
ANTLR	ANTLR	4.5 4.5.3	Copyright (c) 2012 Terence Parr and Sam Harwell All rights reserved.
ANTLR	ANTLR	4.7.2	Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
ANTLR	Antlr.runtime	3.2	Copyright (c) 2012 Terence Parr and Sam Harwell All rights reserved.
Apache	Ant	1.10.9	Copyright 1999-2020 The Apache Software Foundation The <sync> task is based on code Copyright (c) 2002, Landmark Graphics Corp that has been kindly donated to the Apache Software Foundation.
Apache	bsf.jar	2.4.0	
Apache	cglib	3.3.0	
Apache	commons-cli	1.3.1, 1.4	Copyright 2001-2017 The Apache Software Foundation
Apache	commons-codec	1.15	Copyright 2002-2017 The Apache Software Foundation
Apache	commons-collections	3.2.2, 4.4	Copyright 2001-2019 The Apache Software Foundation
Apache	commons-Fileupload	1.4	Copyright 2002-2018 The Apache Software Foundation

Provider	Component	Version	License Information
Apache	commons-io	2.7	Copyright 2002-2020 The Apache Software Foundation
Apache	commons-lang	2.2, 3.9	Copyright 2001-2018 The Apache Software Foundation
Apache	commons-Logging	1.2	
Apache	commons-text	1.9	Copyright 2014-2020 The Apache Software Foundation
Apache	Groovy	3.0.7	Copyright 2003-2020 The Apache Software Foundation
Apache	HTTP Components Cache	4.1.2	
Apache	HTTP Components Mime	4.1.2	
Apache	HttpCore / HttpComponents Core	4.4.9 4.4.13	Copyright 2005-2019 The Apache Software Foundation
Apache	HttpComponents HttpClient	4.5.13	Copyright 1999-2020 The Apache Software Foundation
Apache	Log4j	2.11.0 2.13.3	Copyright 1999-2017 Apache Software Foundation
Apache	Velocity	1.7 2.1	Copyright (C) 2000-2019 The Apache Software Foundation
Apache	Xalan	2.7.2	
Apache	XMLBeans	3.1.0	
Apache	XMLSchema Core	2.2.4	Copyright 2004-2015 The Apache Software Foundation
Apache Software Foundation	Apache Cordova	7.0.0	
Apache Software Foundation	commons Beanutils	1.9.4	
Apache Software Foundation	Cordova Android	6.4.0	
Apache Software Foundation	Cordova Camera Plugin	4.0.3	
Apache Software Foundation	Cordova Command Line Interface	8.0.0	
Apache Software Foundation	Cordova Device Plugin	2.0.2	
Apache Software Foundation	Cordova File Plugin	6.0.1	

Provider	Component	Version	License Information
Apache Software Foundation	Cordova File Transfer Plugin	1.7.1	
Apache Software Foundation	Cordova Geolocation Plugin	4.0.1	
Apache Software Foundation	Cordova inappbrowser plugin	3.0.0	
Apache Software Foundation	Cordova iOS	4.4.0	
Apache Software Foundation	Cordova Network Information Plugin	2.0.1	
Apache Software Foundation	Cordova WebSQL PlugIn	0.0.10	
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 http://willow-systems.com
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 http://www.apache.org/licenses/LICENSE-2.0
Chromium	Cordova Zip Plugin	3.1.0	
Codehaus	Jettison	1.4.1	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
Connect2id Ltd	Nimbus JOSE+JWT	8.19	Copyright 2012-2020, Connect2id Ltd.
Crypho AS	Cordova Plugin Pin Check	0.0.6	Copyright (c) 2015 Crypho AS
David Olson	Timezone Data 2010j	2010j	

Provider	Component	Version	License Information
FasterXML, LLC	jackson-annotations	2.10.3	Copyright (c) 2019- Tatu Saloranta, tatu.saloranta@iki.fi
FasterXML, LLC	jackson-core	2.10.3	Copyright (c) 2007 - Tatu Saloranta, tatu.saloranta@iki.fi
FasterXML, LLC	jackson-databind	2.10.3	Copyright (c) 2019- Tatu Saloranta, tatu.saloranta@iki.fi
INRIA, France Telecom	ASM	8.0	Copyright (c) 2000-2011 INRIA, France Telecom All rights reserved.
Ionic	cordova-plugin-ios-keychain	3.0.1	Copyright (c) 2012 Shazron Abdullah
Joe Walnes	Qdox	1.12.1	Copyright (c) 2003-2006, Joe Walnes Copyright (c) 2006-2011, XStream Committers All rights reserved.
Joe Walnes	XStream	1.4.13, 1.4.15	Copyright (c) 2003-2006, Joe Walnes Copyright (c) 2006-2019, XStream Committers All rights reserved.
John Resig	jQuery	2.1.0	Copyright (c) 2011 John Resig, http://jquery.com/
John Resig	jQuery	3.3.1	Copyright (c) 2011 John Resig, http://jquery.com/
jQuery	jQueryUI	1.12.1	Copyright (c) 2010 Paul Bakaus, http://jqueryui.com/ .
jQuery	jQueryMobile	1.4.2	Copyright 2013 jQuery Foundation and other contributors http://jquery.com/
JS Foundation and other contributors	jQuery	3.4.1 3.5.1	Copyright JS Foundation and other contributors, Copyright © 2019 Kyle Simpson <getify@gmail.com>
JSON	accessors-smart	1.3	Copyright (c) 2000-2011 INRIA, France Telecom
JSON-SMART authors	json-smart	2.4	Copyright 2011 JSON-SMART authors
Marijn Haverbeke	CodeMirror	5.58.2	Copyright (C) 2017 by Marijn Haverbeke <marijnh@gmail.com> and others
MetaStuff, Ltd.	Dom4j	2.1.1 2.1.3	Copyright 2001-2016 (C) MetaStuff, Ltd. All Rights Reserved.
Niklas Merz	Cordova Plugin Fingerprint aio	1.7.0	Copyright (c) 2016-2018 Niklas Merz
Opensource	Cordova App-Event Plugin	1.2.1	
Opensource	Cordova BackgroundFetch	5.3.0	
Opensource	Cordova Local Notification Plugin	0.8.5	
Opensource	Cordova SQLite storage adapter	2.3.3	

Provider	Component	Version	License Information
Opensource	Cordova Websocket PlugIn (KNOWLEDGECODE)	0.12.2	
Oracle	JavaScript Extension Toolkit (JET)	9.1.0	Copyright (c) 2014, 2020 Oracle and/or its affiliates
PhoneGap	Cordova Plugin for Barcode Scanner	8.0.0	
Pradeep Singh	cordova-plugin-secure-key-store	1.5.6	Copyright (c) 2017 Pradeep Singh
Quality Open Software	Simple Logging Façade for Java (SLF4J)	1.7.30	Copyright (c) 2004-2017 QOS.ch All rights reserved. Refer to http://www.slf4j.org/license.html .
Red Hat	jboss-logging	3.4.1.FINAL	Copyright 2010 Red Hat, Inc.
Sebastián Katzer	Cordova BackgroundMode PlugIn	0.7.2	
Steven Sanderson	Knockout Mapping	2.4.1	Copyright (c) Steven Sanderson, Roy Jacobs
Steven Sanderson	Knockout.js	3.4.2	Copyright (c) Steven Sanderson, Roy Jacobs
SmartBear Software	swagger-ui	3.18.1 3.26.2	Copyright (c) 2016 SmartBear Software Copyright 2020 SmartBear Software Inc.
Tatu Saloranta	StaxMate	2.0.1 2.4.0	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: http://opensource.org/licenses/BSD-3-Clause .
Terence Parr	Antlr.runtime	3.2	Copyright (c) 2005-2009 Terence Parr All rights reserved. BSD License: http://opensource.org/licenses/BSD-3-Clause .
Terracotta, Inc.	Ehcache	2.5.2	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 .
The Joda Product (Joda.org)	joda-time	2.9.6	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
The Werken Company	Jaxen	1.2.0	Copyright 2003-2006 The Werken Company. All Rights Reserved.

Provider	Component	Version	License Information
Tim Wood	Moment.js	2.21.0	Copyright (c) 2011-2013 Tim Wood, Iskren Chernev, Moment.js contributors
Unicode, Inc.	ICU	63.1	Copyright © 1991-2018 Unicode, Inc. All rights reserved.
The Unicode Consortium	ICU4J	64.2	Copyright © 1991-2019 Unicode, Inc. All rights reserved.
XmlPull Project (xmlpull.org)	Xmlpull	1.1.3.1	Initial authors: Stefan Haustein Aleksander Slominski 2001-12-12

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](#)
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- [Notice Concerning Usage of Cordova Plugin Pin Check](#)
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- [Notice Concerning Usage of Jaxen](#)
- [Notice Concerning Usage of JQuery \(2.1.0, 3.3.1\)](#)
- [Notice Concerning Usage of JQuery \(3.4.1\)](#)
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- [Notice Concerning Usage of Moment.js](#)
- [Notice Concerning Usage of SLF4J](#)
- [Notice Concerning Usage of Staxmate](#)
- [Notice Concerning Usage of XMLPULL](#)
- [Notice Concerning Usage of XStream](#)

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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- ant1.10.9.jar
- accessors-smart-1.3.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-3.3.jar
- commons-beanutils-core-1.9.4.jar
- commons-cli-1.1.jar
- commons-cli-1.4.jar
- commons-codec-1.15.jar
- commons-collections-3.2.2.jar
- commons-collections-4.4.jar
- commons-fileupload-1.4.jar
- commons-httpclient-4.5.13.jar
- commons-io-2.7.jar
- commons-lang-2.2.jar
- commons-lang-3.9.jar
- commons-logging-1.2.jar
- commons-text-1.9.jar
- ehcache-core-2.5.2.jar
- groovy-3.0.7.jar
- httpcore-4.4.3.jar
- jboss-logging-3.4.1.Final.jar
- jackson-annotations-2.10.3
- jackson-core-2.10.3
- jackson-core-asl-1.9.2.jar
- jackson-databind-2.10.3
- jackson-jaxrs-1.9.2.jar
- jackson-mapper-asl-1.9.2.jar
- jackson-xc-2.8.5.jar
- jettison-1.4.1.jar
- json-smart-v2.jar
- jcl-over-slf4j-1.7.3.jar
- joda-time-2.3.jar
- log4j-api-2.11.0.jar
- log4j-core-2.11.0.jar
- log4j-api-2.13.3.jar
- log4j-core-2.13.3.jar
- nimbus-jose-jwt-8.19.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-1.7.jar
- velocity-2.1.jar
- xalan-2.7.2.jar
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swagger-ui.js

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