Oracle Utilities Meter Data Management

Licensing Information User Manual

Release 2.2.0.3

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ORACLE®

Oracle Utilities Meter Data Management Licensing Information User Manual

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Chapter 1

Introduction

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Chapter 2
Licensing Information

Product	Subproduct	Licensing Information
Oracle Utilities Meter Data Management	Oracle Utilities Meter Data Management	Oracle Utilities Meter Data Management provides the core functionality for meter data management, usage validation, editing, and estimation functionality, and bill determinant calculation capabilities. **Included Products**: Oracle Utilities Service and Measurement Data Foundation **Prerequisites**: • Oracle Database Enterprise Edition • Oracle WebLogic Server Enterprise Edition **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 2-3 for more information.
	Oracle Utilities 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. **Prerequisites**: • Oracle Database Enterprise Edition and the Partitioning option are prerequisites for this option. **Restrictions**: Components provided with ILM including batch jobs, algorithms, and database columns are restricted and CANNOT be used to develop custom archiving processes.

Product	Subproduct	Licensing Information
	Oracle Utilities Meter Data Management (Restricted Use)	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: • 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. Any other use is NOT included and requires a separate full use license for Oracle Utilities Meter Data Management. 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. * 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). **Included Products**: Oracle Utilities Service and Measurement Data Foundation **Prerequisites**: • Oracle Database Enterprise Edition • Oracle WebLogic Server Enterprise Edition **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 2-3 for more information.

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

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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	

Provider	Component	Version	License Information
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	
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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	

Provider	Component	Version	License Information
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 http://willow-systems.com
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Opensource	Cordova App-Event Plugin	1.2.0	
Opensource	Cordova BackgroundFetch	4.0.0	
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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	
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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 ASM
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- Notice Concerning Usage of Concurrent
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- Notice Concerning Usage of JQuery UI
- Notice Concerning Usage of JSignature
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- Notice Concerning Usage of SLF4J
- Notice Concerning Usage of Staxmate
- Notice Concerning Usage of XMLPULL
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- 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
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- 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
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- Cordova Plugin Statusbar

- Cordova SQLite Storage Adapter

- Cordova Websocket plugin

- Cordova WebSQL plugin

- Cordova Whitelist plugin

- Cordova Zip plugin

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jQuery Wiggle

Author: WonderGroup, Jordan Thomas

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marked - a markdown parser

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swagger-ui.js

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