

# **Oracle Utilities Meter Solution Cloud Service**

Overview Guide

Release 2.1.0 Service Pack 3

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# Oracle Utilities Meter Solution Cloud Service Overview

This guide provides an overview of the Oracle Utilities Meter Solution Cloud Service, including:

- [Welcome to Oracle Utilities Meter Solution Cloud Service](#)
- [Oracle Utilities Meter Solution Cloud Service Applications](#)
- [Documentation](#)
- [Supported Client Platforms and Browsers](#)
- [Supported Integrations](#)
- [Functional Limitations and Restrictions](#)

# Welcome to Oracle Utilities Meter Solution Cloud Service

Oracle Utilities Meter Solution Cloud Service is a cloud-based solution used to maintain information about meters and the service points at which they are installed. The solution provides means of recording measurements and events associated with meters in the field as well as the ability to compute usage for the recorded measurements, and process smart meter commands.

Oracle Utilities Meter Solution Cloud Service comprises the following functional areas:

- **Device Management:** the maintenance of physical meters in the field
- **Device Installation:** the maintenance of service points and the installation of meters in the field. This includes the means of registering outside systems to Oracle Utilities Meter Data Management for provider/consumer-specific processing of meter events and activities
- **Device Communication:** the maintenance of communications between Oracle Utilities Meter Data Management and head-end systems, including import of usage and events, as well as two-way communications used in issuing meter commands
- **Validation, Editing, and Estimation:** the maintenance of measurement data and the engine used to validate and modify that data as it comes in
- **Usage Management:** the engine that calculates billable usage recorded on devices, applying factors and dividing the usage into configurable time of use periods
- **Aggregation:** summarization of measurement data for reporting and analysis purposes
- **Data Synchronization:** synchronizing data between Oracle Utilities Meter Data Management and other Oracle Utilities applications (including Oracle Utilities Operational Device Management and Oracle Utilities Customer Care and Billing).
- **Oracle Utilities DataConnect:** extraction of consumption and master data for use in external systems.
- **Oracle Utilities Meter Data Analytics:** dashboards and metrics that help customers monitor their meter data.

## Oracle Utilities Meter Solution Cloud Service Applications

Oracle Utilities Meter Solution Cloud Service includes the following Oracle Utilities applications:

- Oracle Utilities Meter Data Management V2.1.0.3.0\*
- Oracle Utilities Smart Grid Gateway V2.1.0.3.0\*
- Oracle Utilities Smart Grid Gateway Adapter for Echelon V2.1.0.3.0
- Oracle Utilities Smart Grid Gateway Adapter for Itron OpenWay V2.1.0.3.0
- Oracle Utilities Smart Grid Gateway Adapter for Landis+Gyr V2.1.0.3.0
- Oracle Utilities Smart Grid Gateway Adapter for Sensus RNI V2.1.0.3.0
- Oracle Utilities Smart Grid Gateway Adapter for Silver Spring Networks V2.1.0.3.0
- Oracle Utilities Smart Grid Gateway MV-90 Adapter for Itron V2.1.0.3.0
- Oracle Utilities Service Order Management V2.1.0.3
- Oracle Utilities Meter Data Management Extractors and Schema V2.5.2
- Oracle Utilities Meter Data Analytics V2.5.2

\* Includes Oracle Utilities Service and Measurement Data Foundation V2.1.0.3.0

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# Documentation

Configuration and use of Oracle Utilities Meter Solution Cloud Service is described in the following documentation:

## **Oracle Utilities Meter Data Management Documentation**

- Oracle Utilities Service and Measurement Data Foundation User's Guide
- Oracle Utilities Meter Data Management User's Guide
- Oracle Utilities Meter Data Management Configuration Guide

## **Oracle Utilities Smart Grid Gateway Documentation**

- Oracle Utilities Service and Measurement Data Foundation User's Guide
- Oracle Utilities Smart Grid Gateway Configuration Guide

## **Oracle Utilities Application Framework Documentation**

- Oracle Utilities Application Framework Business Process Guide
- Oracle Utilities Application Framework Administration Guide

## **Oracle Utilities Smart Grid Gateway Adapter for Echelon Documentation**

- Oracle Utilities Smart Grid Gateway Adapter for Echelon User's Guide
- Oracle Utilities Smart Grid Gateway Adapter for Echelon Configuration Guide

## **Oracle Utilities Smart Grid Gateway Adapter for Itron OpenWay Documentation**

- Oracle Utilities Smart Grid Gateway Adapter for Itron OpenWay User's Guide
- Oracle Utilities Smart Grid Gateway Adapter for Itron OpenWay Configuration Guide

## **Oracle Utilities Smart Grid Gateway Adapter for Landis+Gyr Documentation**

- Oracle Utilities Smart Grid Gateway Adapter for Landis+Gyr User's Guide
- Oracle Utilities Smart Grid Gateway Adapter for Landis+Gyr Configuration Guide

## **Oracle Utilities Smart Grid Gateway Adapter for Sensus Documentation**

- Oracle Utilities Smart Grid Gateway Adapter for Sensus User's Guide
- Oracle Utilities Smart Grid Gateway Adapter for Sensus Configuration Guide

## **Oracle Utilities Smart Grid Gateway Adapter for Silver Spring Networks Documentation**

- Oracle Utilities Smart Grid Gateway Adapter for Silver Spring Networks User's Guide
- Oracle Utilities Smart Grid Gateway Adapter for Silver Spring Networks Configuration Guide

## **Oracle Utilities Smart Grid Gateway MV90 Adapter for Itron Documentation**

- Oracle Utilities Smart Grid Gateway MV90 Adapter for Itron User's Guide
- Oracle Utilities Smart Grid Gateway MV90 Adapter for Itron Configuration Guide

## **Oracle Utilities Smart Grid Gateway Service Order Management Documentation**

- Oracle Utilities Smart Grid Gateway Service Order Management Configuration Guide

**Oracle Utilities Analytics Documentation**

- [Oracle Utilities Analytics Administration Guide](#)
- [Oracle Utilities Analytics Dashboards for Meter Data Analytics Metric Reference Guide](#)
- [Oracle Utilities Extractors and Schema for Oracle Utilities Meter Data Management Data Mapping Guide](#)



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## Supported Client Platforms and Browsers

Users access Oracle Utilities Meter Solution Cloud Service via a web browser such as Microsoft Internet Explorer.

Oracle Utilities Meter Solution Cloud Service supports the following operating system / web browser combinations:

Operating System	Web Browser
Windows 7 (32-bit or 64-bit)	Microsoft Internet Explorer 11
Windows 8.1	Microsoft Internet Explorer 11

**Note:** Internet Explorer 11 must have Compatibility Mode enabled.

## Supported Integrations

Oracle Utilities Meter Solution Cloud Service supports integration with a number of other products, including:

- [Oracle Utilities Products](#)
- [Head-End Systems](#)

### Oracle Utilities Products

The table below lists Oracle Utilities products that can be integrated with Oracle Utilities Meter Solution Cloud Service, and provides the product name, supported versions, and the integration products that enable the integration.

Oracle Utilities Product	Version(s)	Integration Product(s)
Oracle Utilities Customer Care and Billing	2.5.0 2.4.0 2.3.1	Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management 12.1*
	2.5.0 2.4.0.3	Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Service Order Management v2.1.0.3*
Oracle Utilities Customer Self Service	2.1.0	Oracle Utilities Customer Self Service*
Oracle Utilities Mobile Workforce Management	2.2.0.3	Oracle Utilities Service Order Management Integration to Oracle Utilities Mobile Workforce Management 2.1.0.3*
Oracle Utilities Network Management System	1.12.0.2	Oracle Utilities Smart Grid Gateway Integration for Outage Operations Release 2.1.0.3
	1.12.0.1	
	1.11.0.4	
Oracle Utilities Operational Device Management	2.0.1	Oracle Utilities Integration for Device Operations 12.1*
	2.1.1	

\* The above integrations require separate licenses. In addition, the BPEL composites used by the Service Order Management integrations are not installed as part of Oracle Utilities Meter Solution Cloud Service, and must be installed locally.

## Head-End Systems

Oracle Utilities Meter Solution Cloud Service supports integration with a number of vendor-specific head-end systems via Oracle Smart Grid Gateway Adapters (included as part of Oracle Utilities Meter Solution Cloud Service). The table below lists the supported versions of head-end system for each Adapter available with Oracle Utilities Meter Solution Cloud Service.

Adapter	Head-End System Version
Adapter for Echelon	Echelon NES 5.2, NES 5.3
Adapter for Itron OpenWay	6.1
Adapter for Landis+Gyr	Gridstream Command Center 6.3
Adapter for Sensus RNI	Sensus RNI 3.1
Adapter for Silver Spring Networks	UtilityIQ Version 4.10
MV-90 Adapter for Itron	N/A SGG supports the .mv9 binary, mainframe data format.

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## Functional Limitations and Restrictions

This section outlines some specific limitations and restrictions regarding the functionality of Oracle Utilities Meter Solution Cloud Service, including:

- [Usage and Event Data Formats](#)
- [Smart Meter Commands](#)

### Usage and Event Data Formats

Oracle Utilities Meter Solution Cloud Service provides no data transformation or conversion functionality. Usage and event data being imported into Oracle Utilities Meter Solution Cloud Service must be converted or transformed into a format supported by one of the following vendor-specific adapters prior to import:

- Adapter for Echelon
- Adapter for Itron OpenWay
- Adapter for Landis+Gyr
- Adapter for Sensus RNI
- Adapter for Silver Spring Networks
- MV-90 Adapter for Itron

### Smart Meter Commands

Oracle Utilities Meter Solution Cloud Service supports smart meters commands as described in the Smart Grid Gateway Adapter documentation (see “Documentation” on page 4). Additional smart meter command functionality must be implemented external to Oracle Utilities Meter Solution Cloud Service. This includes the following:

- Extensions to currently supported smart meter commands for supported head-end systems (see “Head-End Systems” on page 8)
- New smart meter commands beyond those currently supported
- Commands for non-supported head-end systems

Additional smart meter command functionality can be implemented via a Platform-as-a-Service or integration cloud service, or on premise at a customer site.