

Oracle Utilities Meter Data Management



Oracle Utilities Meter Data Management (MDM) is a powerful platform critical to leveraging the full potential of meter data across your organization. With Oracle Utilities MDM’s robust data management capabilities, utilities maximize the impact of their technology and infrastructure investments by effectively harnessing the power of data.

KEY FEATURES

- Data capture from multiple sources
- Rich CIS integration architecture
- Automated VEE processes
- Embedded, configurable business processes based on industry standards
- Consolidated interface for data management
- Automated data synchronization across utility systems
- Pre-built integration with head-end and AMI systems

KEY BENEFITS

- Streamlines data capture and management
- Eliminates need for manual data collection, management, and sharing
- Improves data consistency and accuracy across systems
- Optimizes performance throughout meter to cash operations
- Scales to support the largest utilities in the world
- Supports grid modernization initiatives including smart meter programs

Overview

Oracle Utilities MDM gathers and processes data from any type, variety, or brand of device. The application loads, validates, stores, and formats the data in ways that facilitate business processes across multiple internal and external systems. Oracle Utilities MDM includes standard functionality for aggregations, event subscriptions, usage subscriptions, bill determinants (supporting the push and pull methods), and smart meter transition processes.

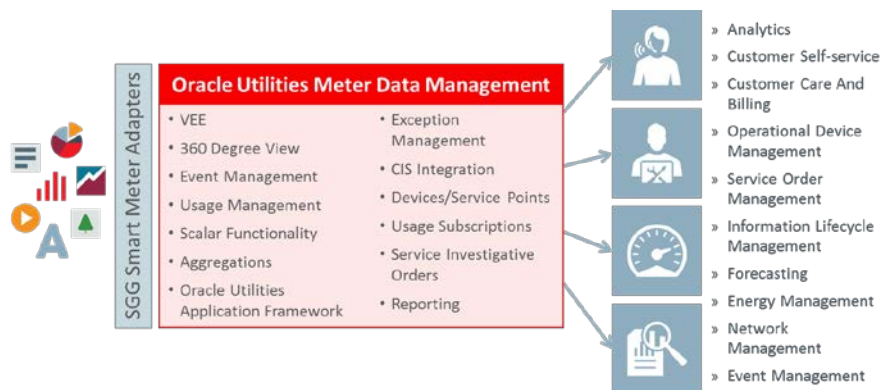


Figure 1: Oracle Utilities MDM captures massive data sets, validates and corrects data, and allows data to be leveraged easily across multiple platforms.

Oracle Utilities MDM includes out-of-the-box functionality to automatically analyze usage and event data and issue Service Investigative Orders based on exceptions, events, commands, missing readings and meter reader remarks. This proactive analysis supports revenue protection by initiating maintenance or repair tasks as needed, improving the performance, and prolonging the life of meter and network devices.

In addition, Oracle Utilities MDM includes a 360-degree user interface. This analytical tool allows users to graphically view usage and overlay related information such as:

weather data, average usage profiles, similar premise usage, AMI events, VEE exceptions, installation and removal activities, outage periods, meter reader remarks, and service orders.

RELATED PRODUCTS

- Oracle Utilities Information Lifecycle Management for Meter Data
- Oracle Utilities Customer Care and Billing
- Oracle Utilities Customer Self Service
- Oracle Utilities Analytics
- Oracle Utilities Mobile Workforce Management
- Oracle Utilities Operational Device Management
- Oracle Utilities Network Management System

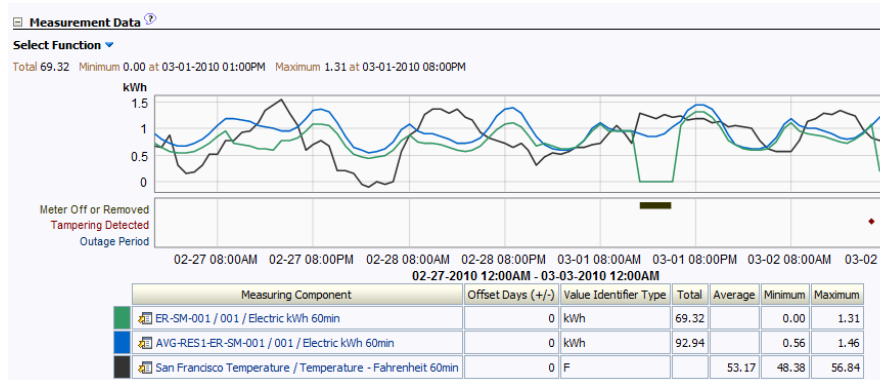


Figure 2: Oracle Utilities MDM provides a 360 degree view of meter data and related information.

Performance

Performance is essential in handling the extreme data volumes generated by smart devices. Using Oracle technologies and labs, the Oracle Utilities MDM application has been built to support these enormous volumes. In the most recent benchmark test, Oracle showed the unprecedented ability to load interval and scalar data from 20 million meters and complete bill determinant processing in less than eight hours using Oracle Utilities MDM and Oracle Utilities Smart Grid Gateway (SGG) on standard hardware. Furthermore, the test showed that data processing time decreased in a near-linear proportion to hardware additions.

Robust Technology Foundation

Oracle Utilities MDM is built upon a flexible architecture that allows customers to define custom objects, data entities, user interfaces, business rules, and processes. This is the same proven framework used by Oracle Utilities Customer Care and Billing (CC&B) and other Oracle Utilities applications. Oracle Utilities MDM product and framework utilize Oracle technologies like Java and the Oracle database to provide a robust and open platform.

Meter Solution

Oracle Utilities MDM is a component of Oracle’s comprehensive Meter Solution, which includes rich functionality designed and built to support utilities of all sizes – including some of the largest utilities in the world. It provides a wide array of complementary products to meet customers’ requirements today and tomorrow including:

- **Smart Device Integration.** Oracle Utilities SGG includes productized smart meter adapters for the most widely used head-end systems (Sensus, Landis+Gyr, Echelon, Silver Springs, Itron OpenWay and Itron MV-90) and a development kit for custom adapters.
- **CIS Integration.** Oracle also offers Oracle Utilities MDM productized integration to Oracle Utilities CC&B and simplifies complex integrations for external vendors.





- **In House Analytics.** Pre-packaged integration links Oracle Utilities MDM with Oracle Utilities Analytics and Oracle DataRaker to perform analytics. This includes operational and management dashboards to assist with day-to-day operations and management tasks.
- **SaaS Analytics.** For those utilities seeking a cloud-based solution with a short lead time from integration to deployment, Oracle Utilities Analytics Cloud Service provides advanced intelligence about meter operations, revenue protection, and energy efficiency.
- **Customer Self Service.** Oracle Utilities MDM integrates with Oracle Utilities Customer Self Service (CSS) for online customer inquiry, consumption analytics, bill viewing/payment, and customer payments.
- **Device Management.** Oracle Utilities MDM is integrated to Oracle Utilities Operational Device Management (ODM) to provide comprehensive asset management of smart grid devices. This includes change and configuration management as well as strict inventory management of secured devices.
- **Service Order Management.** Oracle Utilities MDM has pre-built integration with Oracle Utilities Service Order Management to provide a central, predictive automation hub for orchestrating and completing service order processes.
- **Data Storage and Management.** Oracle Utilities Information Lifecycle Management for Meter Data is built to work seamlessly with Oracle Utilities MDM and provides automated data management and archiving to drastically reduce data storage costs.
- **Infrastructure Management.** Oracle Utilities MDM's integration to Oracle Enterprise Manager provides a comprehensive IT system management solution.
- **Training Modules.** Access prepackaged content for end-user training delivered through an extensible best-in-class training and productivity platform, Oracle User Productivity Kit (UPK). There are several training modules offered: Administrative Setup, User Tasks, VEE and Usage Rules, and Working with Measurement Data.

CONTACT US

For more information about Oracle Utilities Meter Data Management, visit oracle.com/industries/utilities or call +1.800.275.4775 to speak to an Oracle Utilities representative.



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