

ORACLE UTILITIES METER DATA MANAGEMENT

KEY BENEFITS

- **Consolidates** all consumption data in one system.
- **Provides a 360-degree view of metering device information** in a form relevant to the functions of different departments—customer service, meter shop, and operations.
- **Facilitates new customer offerings and programs** by accommodating multiple bill determinant rules (e.g. time-of-use, demand response, critical peak pricing, and peak time rebates).
- **Supports distributed generation** from neighborhood and residential sites, including net metering.
- **Supports conservation and bill minimization** by providing customers with detailed consumption data.
- **Maximizes return on metering investments** by providing a central data source for all utility departments.
- **Protects revenue** through comprehensive exception management.
- **Supports use of all data streams** from smart meters—not just consumption data but also power quality, tamper alerts, low battery, and other data streams—throughout the utility.

KEY FEATURES

- **Adapts** easily to emerging regulatory and customer requirements.
- **Handles all volumes** of analog and interval customer-site data in multiple streams (e.g. consumption per interval, kVARh, power quality measurements).
- **Minimizes data duplication and processing times** by providing common-sense, workable solutions to issues surrounding data storage and handling across multiple applications.
- **Extends** so utilities can add additional fields to the data model.
- **Supports** multiple sets of jurisdictional rules in regulated and competitive markets.

Smart Metering offers utilities vast amounts of new data. With it, you can improve operations and offer new customer programs. To maximize the benefits, however, you must transform raw data into usable information.

Oracle Utilities Meter Data Management (MDM) 2.0 gathers and processes all types of data from any type, variety, or brand of meters. The application stores the data, and, using one or more data streams, formats it in ways that facilitate business processes across multiple utility departments.

Robust and flexible enough for even the largest utilities with the most complex requirements, MDM 2.0 provides the data support you need today and the flexibility to adapt to tomorrow.

Manage Consumption Data

Oracle Utilities Meter Data Management 2.0:

- **Gathers** consumption data from analog and smart meters via interfaces with metering head-end systems, field data collection devices, and/or an intermediary application like Oracle Utilities Smart Grid Gateway.
- **Validates, edits, and estimates (VEE)** meter data automatically or manually, according to:
 - Standard VEE rules like high/low validations and spike checking. Utilities may specify their own limits and tolerances.
 - Custom rules built on the same model as standard rules. This reduces performance risk.
 - Rule grouping and sequencing instructions. Utilities can mix standard and custom rules, include individual rules in multiple groups, and limit rules to apply to specific regions or sets of customers. And because MDM 2.0 also permits meter groups, utilities can simultaneously apply a single rule change to large numbers of meters, thus reducing the cost of field updating.
 - Automated exception handling.
- MDM 2.0 VEE can operate in real time to facilitate business processes like issuing final bills.
- **Calculates** billing determinants. MDM 2.0 provides standard calculations for items like consumption, peak demand, time-of-use consumption, critical peak pricing periods, and net metering (including negative consumption). The application also provides tools like time-of-use mapping to group similar intervals for billing purposes like demand response. Additionally, utilities can configure custom bill determinants as needed.
- **Aggregates** consumption data for use by other applications.

- **Runs** on multiple operating systems.
- **Checks meter accuracy** by using multiple rules and data comparisons.
- **Handles** communications to and from multiple head-end vendors.
- **Leverages** the strength of the Oracle technology stack and testing laboratories to ease integration and decrease processing time.

- **Stores** both raw data and the results of all operations. MDM 2.0 acts as the meter data system of record and provides complete, easily accessed audit trails.
- **Provides multiple analytic tools.** MDM 2.0 also interfaces easily with Oracle Utilities Business Intelligence and other high-level analytic applications.

360° Device Portal

Oracle Utilities Meter Data Management 2.0 features a centralized Device Portal that contains all device data, including measuring components, installation and service point information, and the applications that use its data. With Device Portal:

- Customer service representatives can review current and historical usage.
- Field technicians can see the details of metering activities.

The Device Portal contains tools that help utility staff:

- View/edit interval and scalar data, hone in on areas of interest, view those areas in context, and make calculations and corrections.
- Look for signs of tampering or theft.
- View and analyze audit records.

These tools work with all consumption data types: cumulative, time-of-use and interval. They permit utility staff to search, graph, scale, sum, and download meter data. Staff can also compare multiple usage curves and compare usage to other types of data like weather.

MDM 2.0's Device Portal centralizes all the data required to set up and maintain both devices and the service points where they reside. It provides a library of standard rules to perform such tasks as verifying device identifiers, ensuring use of the correct units of measure and time intervals, checking individual and total consumption against expected highs and lows, and changing time from daylight saving (summer) to standard time.

The Device Portal stores meter-reading schedules and meter readers' routes. It also supports meter readers by downloading schedules to their handheld devices and uploading reads at the end of a shift.

The Device Portal can handle not only meters but also other types of customer-premise equipment like smart thermostats and in-home energy data displays. It also accommodates unmetered devices like streetlights.

Robust Technology Foundation

Oracle Utilities Meter Data Management 2.0 rests on proven, open Java technology, which also provides the foundation for such Oracle Utilities applications as Customer Care and Billing, Mobile Workforce Management, and others. This technology provides MDM 2.0 users with:

- A **standard web-browser interface** that makes the system easy to use and reduces the training time. The interface supports familiar concepts like drill-downs, hyperlinks, favorites, back buttons, popup windows, and histories.
- A **dashboard** screen area populated with commonly used functions, contextual material for the current task, alerts, to-do lists, and navigation links. Additional screen portals and zones can provide related information like maps, search results, and data tables.
- Alert **notifications**, work lists, and reminders tailored to each user's specific needs.
- **Options that speed task completion**, including scripts, desktop set-ups, user-defined portals, business process assistants, and context-sensitive on-line help.

Contact Us

For more information about Oracle Utilities Meter Data Management, visit oracle.com/goto/utilities or call +1.800.ORACLE1 to speak to an Oracle representative.



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