INTEGRATING ORACLE UTILITIES METER DATA MANAGEMENT WITH SAP

Oracle provides an integration product between Oracle Utilities Meter Data Management and SAP for Utilities. Oracle Utilities Meter Data Management Integration to SAP for Meter Data Unification and Synchronization links the applications within Meter-to-Cash business processes to improve operational efficiencies, reduce costs, and enhance customer satisfaction. It also conforms to open enterprise services that are published by SAP for integration with MDM software vendors.

The Integration Requirement

A dramatic increase in meter data volume, resulting from the collection of interval data, has prompted utilities to employ next-generation meter data management applications. Meter data management can offload major tasks from the billing system, including loading, validating, editing, and estimating meter data, storing meter data and events, and producing billing determinants. Many utilities choose Oracle Utilities Meter Data Management (MDM) for its superior features and high performance with large volumes of smart meter data.

Integrating MDM with the billing system is essential for improving operational efficiency, ensuring accurate billing, and pursuing Smart Grid initiatives. However, implementing and maintaining custom interfaces can be costly and risky, especially between applications from different vendors.

Prepackaged Integration with SAP

Now, utilities that use SAP for customer relations and billing can leverage MDM’s advanced capabilities through an Oracle-supported integration product, in order to:

- Manage usage data from multiple metering systems in a unified repository
- Request aggregated usage calculations from interval meter data for billing
- Issue commands to smart meters (ping, connect, disconnect) in a simplified manner, where the MDM system can communicate with each different meter network, and
- Limit data duplication and unnecessary synchronization

Built to Open Standards

SAP publishes an open set of enterprise services to enable integration with MDM software vendors. The interface, called Meter Data Unification and Synchronization (MDUS), enables SAP for Utilities to request usage data and access Advanced Metering Infrastructure (AMI) capabilities from a unified MDM system. Oracle’s integration conforms to these SAP standards and covers the primary data exchanges that are required for meter operations, billing, customer relations, and revenue management.
Meter-to-Cash Processing

Oracle’s integration between MDM and SAP reduces the cost and risk of managing complex interfaces by delivering these pre-defined business flows between the applications:

- **Notify MDM of Device Installations and Configurations.** SAP can notify MDM about meter records and configurations. MDM must be aware of the devices to issue automated meter commands and gather usage data once devices are installed and operational.

- **Notify MDM of Measurement Profiles for Devices.** Synchronizing measurement profiles allows MDM to respond appropriately to billing-related requests from SAP. Coordinating the billing process this way also reduces data storage and processing requirements in SAP, since interval usage data is first loaded into and then aggregated within MDM.

- **Request Aggregated Usage Data from MDM.** SAP can request time series usage calculations from MDM to be used for billing.

- **Initiate Device Commands.** Based on customer service requests, SAP can initiate AMI commands. The integration supports the following AMI commands from SAP: Query Meter Operational Status (Ping), Remote Meter Connect, and Remote Meter Disconnect. The commands are routed to MDM, which uses the Oracle Utilities Smart Grid Gateway to interface with AMI vendors’ software for smart meters.

The Oracle Advantage

The Oracle Utilities Meter Data Management Integration to SAP for Meter Data Unification and Synchronization leverages Oracle Application Integration Architecture (AIA), providing a rich foundation to implement sustainable, Services Oriented Architecture-based integrations.

The integration uses open standards and best-in-class Oracle Fusion Middleware to reduce costs and increase business flexibility.

Contact Us

For more information about Oracle Utilities Meter Data Management Integration to SAP for Meter Data Unification and Synchronization, visit oracle.com or call +1.800.275.4775 to speak to an Oracle representative.