PRODUCT FACT SHEET

# POWEL MDMS

Powel MDMS is a stand-alone application for meter data management that includes the features and functionality utilities need for every link in the meter-to-bill value chain, as well as settlement and forecasting. Powel MDMS is specifically designed to handle large-scale deployments and provides utilities with the accuracy, flexibility and scalability needed for their smart metering programs.

## A CRITICAL BUILDING BLOCK FOR THE UTILITY OF THE FUTURE

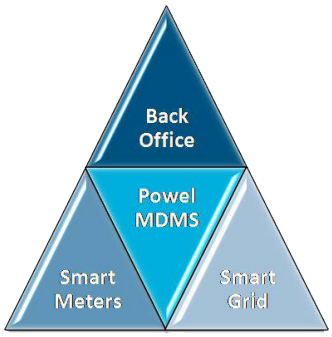
Meter data management is the core system for successful smart metering programs. Powel MDMS supports all aspects of C&I and mass market smart meter deployment including rollout support, validation, analysis, balance reports, settlement and preparation of data for billing. New smart grid functionality can easily be configured allowing utilities to manage strategic and regulatory issues today – and in the future. Integrated business process management tools provide the agility and control utilities need to make full use of new technical and commercial possibilities.

### INTEROPERABLE METER DATA MANAGEMENT

Powel MDMS is an interoperable system for large-volume interval data that helps to reduce overall cost and maintenance. The system manages events registered in the meter or in the data collection system. Metered data from meter vendor specific head end systems can be imported and processed before exporting it to CIS, CRM or other third part back office systems. Powel MDMS can serve several CIS from one installation.

### EFFICIENT SYSTEM INTEGRATION

As a result of large scale smart metering, meter data management has become a critical and important task for utilities. The reason is that meter data management systems are business critical and typically represent the hub for all metered information. Powel MDMS uses web services to easily integrate to CIS and back office systems for serving those with validated and processed data from the meters. The web services include services for scheduled import and export, as well as instant request for meter data or meters. As smart grid innovation continues, Powel MDMS integrates with either SCADA and/or GIS solutions to serve metered and logged information.




### ENTERING THE SMART GRID

Powel MDMS supports management of metered consumption, logged events – and metered generation. By using the efficient business features in the system, smart grid information and results including outages, voltage, consumption and meter plant information are available and presented in a separate map interface as a web client.

## OUR EXPERIENCE IS EMBEDDED IN THE SOFTWARE

Powel is responsible for controlling and reading more than one million smart energy meters throughout the Nordic power market and has a long history of helping customers solve challenges unique to the energy sector. Powel MDMS is commercially operating in more than 30 utilities with some installations managing close to a million meters. Utilities apply Powel MDMS to become more operationally efficient and able to meet increasing amounts of data from smart metering for all customer types. This includes efficient deployment of meters and delivering trustworthy metered data for purposes like settlement, billing, forecasting, customer service and accounting. Powel MDMS includes tools for filtering and monitoring events before reporting the required information.

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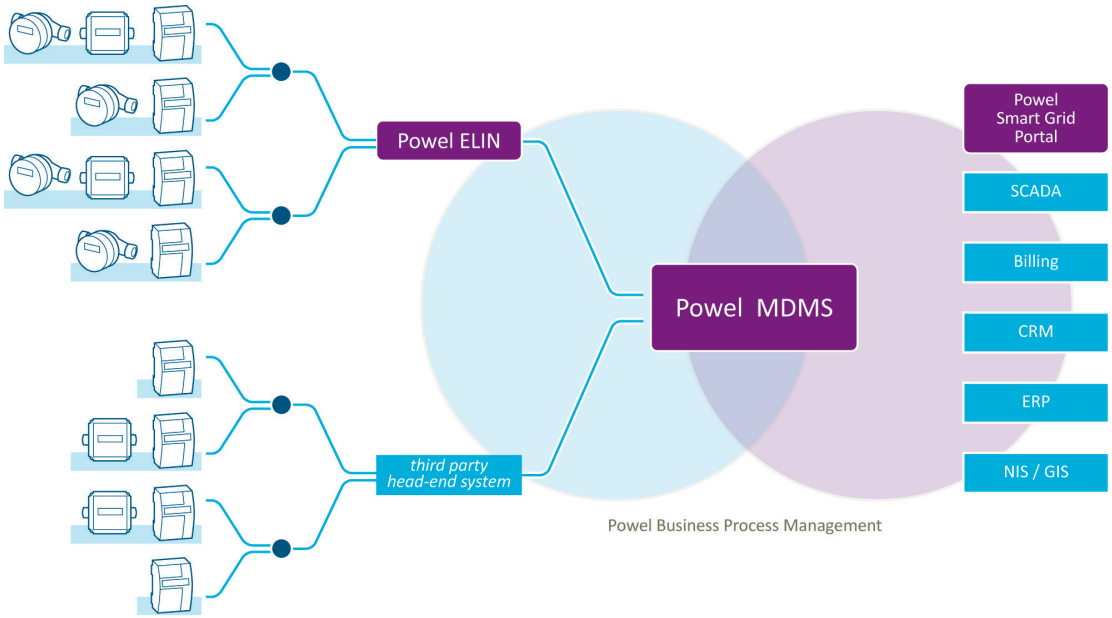
powel
Helping utilities work smarter

## POWERFUL FEATURES

Powel's collective expertise and experience in smart metering is embodied in our meter data management system.

### TRACKING AND TRACING

In smart metering it is important that the meter data management solution is able to version and control all collected data. Powel MDMS stores both the first version of imported data in addition to the validated values.




### MASTER SYSTEM FOR METER DEVICE ASSETS

Smart metering projects create a momentum to reconsider (meter) asset management registration. Powel MDMS has features and functions for asset management and acts as a life cycle register. In addition it integrates with third party field operation tools for installation and route planning. Its flexibility allows masters and multiple masters. In addition, it stores all the historical data. Powel MDMS also includes work order management for meter installation.

### ADVANCED VALIDATION AND ESTIMATION

Control, correction and estimation of metered data are executed as batch jobs. Powel MDMS manages a wide range of rules to support efficient operations for both interval data and meter reading. The flexibility of the system allows the operator to configure rules specific to each meter or group of meters. If meter data is re-read and correct values imported later, the differences between already estimated values and corrected values are identified and exported to the actual receiver for reconciliation. All corrections are stored in event logs.

### POWERFUL TOOL FOR CALCULATION AND REPORTS

Powel MDMS includes a flexible and powerful tool for handling calculations based on a time series – either metered or as a result of pre-calculations. Sub metering, grouping, peak demand analyses and balance reports are examples of what this tool can produce. The resulting time series can be stored or exported to third party systems like CIS, GIS, SCADA and accounting systems.

## POWEL MDMS SUPPORTS SERVICES FOR BUSINESS PROCESS MANAGEMENT

Powel MDMS with Cordys inside includes the most advanced Business Process Management (BPM) and Orchestration functionality, dramatically increasing operational control, flexibility and cost savings. By using the powerful workflow tool, utilities have the opportunity to design, execute, monitor and change automated business processes around smart

energy meters with the help of a model-driven platform that is based entirely on Service Oriented Architecture principles. The handling of events and processes can easily be adjusted or extended, and all processes are covered by the comprehensive process monitoring and KPI dashboard functionality.

### KEY FEATURES

- Interoperable import
- Validation
- Estimation
- Data warehouse
- Advanced calculations
- Meter asset management
- Meter rollout work orders
- Customer service support
- Web services for system integration
- Management of interval data and events