



# Meter Data Management

## Key Features

- Seamless integration with AMR/AMI and CIS applications
- Large data storage capacity to retain years of historical data
- Includes Validation, Estimation, and Editing (VEE)
- Browser based: no other software required on workstations
- Hosted for easy and affordable implementation
- Scalable for any size of utility
- Integrates with powerful analytic solutions
- Optimized data structures to provide fast analysis and reporting
- Enables integration to mapping, outage and SCADA applications
- MultiSpeak compliance

## Product Overview

Utilities across the nation are upgrading their infrastructure with Smart Grid initiatives with several goals. These goals meet regulatory and political requirements, increasing electrical reliability, managing demand and load, designing rates capable of billing for peak and time of day use, plus providing programs to empower customers.



The foundation of a Smart Grid initiative is the implementation of an automated meter reading (AMR) or Advanced Meter Infrastructure (AMI) solution. These solutions provide a wealth of reading, usage and event information. PCS recognizes a comprehensive Smart Grid initiative can be more than just the implementation of an AMR/AMI solution or Smart Meters.

To maximize the benefits of an AMR/AMI solution, a Meter Data Management (MDM) system should be implemented. The implementation of the MDM compliments an AMR/AMI solution. MDM solutions are designed to assist in managing the massive amounts of metering data from potentially multiple sources.

PCS MDM is entirely meter and head end system agnostic– it can manage data from any device on your network– both smart meters and commercial industrial interval meters. We simply establish a data feed between the MDM and whatever AMR/AMI or C&I head end system is in place. As an option, the MDM can also enrich the data with other feeds such as weather and trend data.

Key benefits of implementing the PCS MDM solution include:

- Ability to integrate and import from multiple AMR/AMI vendors providing a common data storage for all meter data
- Ongoing validation, estimation and editing (VEE) of meter interval data
- Enables near real-time handling of alerts, messages, and exceptions
- Enables integration with other systems within the utility on a demand or near real-time basis
- Creates the billing determinants required for advanced billing functions such as critical peak, net metering, time of day, and other time-based rates
- Empowers utility customers to make informed decisions on their energy usage.





The PCS integrated Meter Data Management module is an integral part of a comprehensive "Smart Grid" implementation.

### Additional Advanced Modules (Optional)

- AMR/AMI diagnostic reports
- Meter audit reports to identify and resolve meter issues
- Power theft reports
- High bill prevention tools
- Transformer loading studies
- High and low voltage monitoring

## Benefits For Your Utility

### Advanced Billing Determinants

Historically, utilities had rates with flat or simple tiers. Utilities in the Smart Grid world will have more complex formulas and components including time of use, critical peak, seasonal rates, net metering, distributed energy, and more. The PCS MDM module provides the critical information for the PCS billing engine to calculate complex billing formulas.

### Enterprise Integration

The PCS MDM solution is seamlessly integrated with the PCS billing application. The foundation of this open framework is the MultiSpeak specification designed by the organization. This specification has been widely accepted by third-party applications including AMR/AMI, CIS, MDM, IVR, GIS, and OMS.

### Improve Customer Service

Customer Service Representatives (CSR) at the utility can resolve issues quickly and efficiently. From the PCS CIS billing application, the CSR can view billing, service, and meter records. If required, the CSR can quickly drill into the consumption histories from the MDM, displaying monthly, daily and hourly periods.

### Hosting and Application Management

The MDM module is hosted in the PCS hosting center, allowing for fast startup and lower cost hardware implementations. The hosting center is managed by PCS IT specialists, trained in the latest hosting, security, and administration practices.

### Scalability

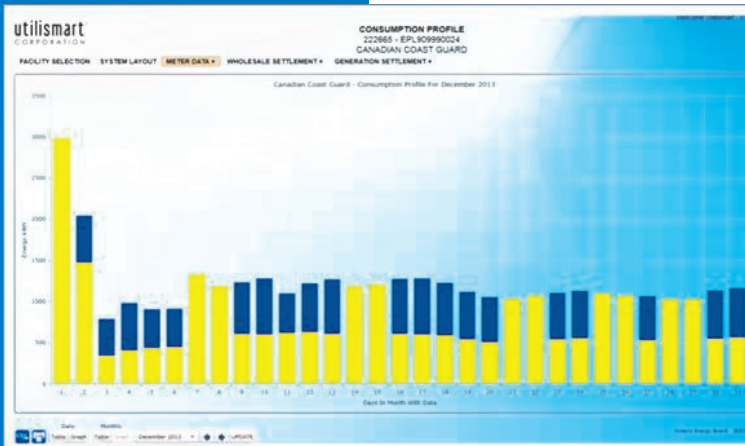
No matter if the utility has hundreds of meters or thousands of meters, the PCS MDM module is scalable to meet the needs of any size of organization. The PCS extensive background in hosting provides the resources and capacity required to manage the MDM environment.

### Industry Standard Meter Communication Methods

PCS MDM uses your existing AMR/AMI communications infrastructure (e.g. radio frequency, cellular modem IP, etc.). Data can be pulled in via MultiSpeak web services or other standard data exchange mechanisms (FTP, SFTP, etc.). Alternatively, you can choose to remain entirely independent and simply provide a data file. The PCS MDM module supports CSV, XML, and CMEP file formats.

### Proven Solution

The PCS MDM solution is powered by Utilismart Corporation (USC). USC has been in software development for electric utilities for more than 14 years and has teamed up with PCS to provide an easy to use and affordable MDM module.



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