

# eMeter Smart Grid Solutions: Extended Enterprise



SOLUTION



## Extended Enterprise – employ new business models emerging with the Smart Grid

Extended Enterprise is one of a number of eMeter capabilities that go beyond standard MDM meter-to-bill solutions for AMI; providing the advanced management required by the new business models of the Smart Grid.

As the Smart Grid evolves, utility mergers, deregulation and the integration of renewable energy supply are driving utilities to extend the organizational boundaries of their enterprise. Utilities must manage a distribution chain that spans multiple companies. These new Extended Enterprise models may include aggregators, retailers, distributors, market operators, field service providers or consumers; and operations may span multiple markets, borders or regulatory bodies. This mandates information systems with a higher degree of flexibility to integrate each participant's unique infrastructure and to support new and evolving business processes that span multiple enterprises. At the same time, these new systems must drive greater control, partitioning who has access to what resources and information.

eMeter Smart Grid Management Software Suite delivers grid management capabilities well beyond those offered by traditional billing centric systems, by providing the Industry's only solution for the Extended Enterprise Utility. Leveraging a common system to enable integration of Advanced Metering Infrastructure (AMI) and Smart Grid management systems across multiple entities in the energy distribution chain, eMeter enables utilities to effectively implement and manage the new business models emerging with the Smart Grid.

### eMeter Extended Enterprise:

- Enables interoperability and collaboration for more efficient energy delivery
- Insulates participating entities from integration complexity
- Provides flexibility to accommodate multiple process and jurisdictional requirements
- Allows service providers to manage multiple data views and access for all authorized parties
- Provides economies of scale and centralized control to lower implementation and operations cost
- Enables rapid non-disruptive change as new requirements and opportunities emerge

## Advanced Features for New Requirements

An Extended Enterprise model requires the integration of multiple CIS, asset management, logistics systems, and often multiple AMI/smart meter infrastructures; each with differing process flows and operating requirements. In addition, entities that participate in the extended group, such as aggregators, retailers, distributors, market operators, field service providers or consumers, are entitled to their appropriate view of information created by the overall system.

For example Alliant Energy, a merged entity, must support two distinct operational models serving unique geographies, customers and regulatory bodies in Iowa and Wisconsin. Another example, AMS New Zealand, a Meter Operator, must deliver data from a common source to a utility distribution company as total usage for calculating distribution charges, summarized by time-of-use periods. At the same time, they must deliver a custom view to an energy retailer for consumer billing, and to the energy market settlement agency as hourly usage values.

eMeter Extended Enterprise delivers the capability to meet these requirements:

**Multi-Process Interoperability:** Provides the capability to integrate dependent processes between companies and power each constituent's unique implementation in the supply chain.

- *Centralized management and execution of common and unique business rules is supported for each application in the system (billing, outage, etc). This simplifies process configuration and change; enabling each entity's rules to be supported without changing underlying application infrastructure.*
- *Two-way data exchange is facilitated via a common repository where individual data sources can be mapped to serve multiple processes in different organizations. This eliminates data integrity issues and ensures consistency between data services.*

- *Both real-time and batch interfaces are supported, feeding entity-specific business processes in accordance with individual requirements.*
- *Support for multiple data delivery services ensure the individual needs of each subscribing entity are met.*

**Extensive Access Controls:** Ensure participating entities can access only the precise information they are authorized to receive. This enables sharing AMI benefits while enabling individual entities to protect proprietary information. User and web services access can be managed according to:

- *Authorized entity*
- *Format and required data elements*
- *Role-based privileges*
- *Push or pull delivery methods*
- *Period of access*

**Comprehensive Data Management:** Enables a consistent view of information across the operation and provides a detailed audit trail to validate integrity.

- *Automatic synchronization of data from multiple backend systems ensures a consistent system of record and eliminates version or timing inconsistencies across processes.*
- *All versions of data and changes are maintained, so that questions and accuracy challenges can be readily addressed.*
- *Detailed audit tracking allows a complete view of how changes were generated and by which entity.*

**Out-of-the-box AMI Adapters:** Provide integrated two-way communication between smart meters, existing network systems, network devices and a utility's information systems. These speed integration of the extended enterprise and reduce both upfront deployment and downstream maintenance costs. With AMI adapters each entity can use the AMI technology that best suits its needs.

## eMeter Smart Grid Management Software

eMeter's Smart Grid Management Software Suite consists of the EnergyIP™ MDM and AMI application modules. This software delivers pre-configured, extensible Mass Market / C&I solutions for:

- *Smart Meter Deployment Planning and Management*
- *Automated Smart Meter Provisioning & Billing Cutover*

- *Meter-to-Cash*
- *Customer Service*
- *AMI Asset Tracking, Configuration Management & Service*
- *Distribution Grid Automation*
- *Extended Enterprise Utility*

## Experience

eMeter provides essential software that enables electric, gas and water utilities to realize the full benefits of the Smart Grid. Leading utilities worldwide depend on eMeter Smart Grid Management software to reduce operational costs, improve customer service, and drive energy efficiency. With the

most large-scale deployments in the industry and strategic partnerships with Accenture, IBM, Logica, and Siemens; eMeter has built a reputation for unparalleled expertise that ensures customer success.

For more information visit: [www.emeter.com](http://www.emeter.com)



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