

# EnergyAxis® Management System

## AMI software for the Smart Grid

Designed for security, scalability, and interoperability and proven by years of exceptional field performance, EA\_MS is the ideal network management system for smart grid applications.

With well over 200 million meter data reads successfully accomplished, and with typical daily meter read success rates of 99% or greater, the EnergyAxis Management System (EA\_MS) manages numerous highly complex advanced metering infrastructure (AMI) networks with a wide variety of business processes implemented. It uses a robust, flexible architecture that addresses key AMI needs and provides enterprise level security, scalability, and interoperability.

As the back office component of Elster's field-proven EnergyAxis System, EA\_MS automates traditional AMI business processes for meter data collection and meter asset management as well as smart grid applications for distribution automation, demand response and load management. EA\_MS provides a complete AMI system management solution for multi-utility (electricity, water and gas) residential and C&I applications and supports a wide variety of standards-based public and private WAN technologies.

### Enterprise integration

With its sophisticated AMI network management capabilities, reporting and GIS, EA\_MS is the utility's command console for rapid, reliable deployment and operation of the EnergyAxis System.

Serving as the interface between the AMI network and utility enterprise applications, EA\_MS enables automation of a wide variety of business processes including billing, prepay, revenue protection, outage management, customer service, asset management, workflow management, distribution automation, demand response and load management. Web services (SOAP) and XML-based interfaces provide maximum flexibility and interoperability for utilities implementing their AMI integration strategy.

### Robust security

Designed from the ground up with security in mind, EA\_MS provides comprehensive security within the AMI system with features such as user authentication, flexible user role-based access control, and support for 128 bit AES encryption. The system supports web services interface authentication using industry standard SSL and WS-Security protocols. The system also enables enterprise-wide authentication and security management through integration with LDAP-compliant technologies thereby allowing utilities to apply SOX-compliant cyber-security policies to their AMI system and AMI network.



EA\_MS enables utilities to automate business processes for billing, prepay, revenue protection, customer service, outage management, asset management, distribution automation, demand response, home automation, and load management.

## Field proven design for future growth

The EnergyAxis Management System was designed for future growth and upgradeability. Its flexible architecture allows utilities to upgrade their system, taking advantage of new features with full backward compatibility and retention of revenue-critical data. With a distributed computing architecture, optimum scalability of systems is accomplished by incremental addition or upgrade of computing hardware with minimum system downtime. With a 100% success rate through over 100 installation upgrades, EA\_MS provides proven upgradeability experience.

## Key features, optimal benefits

- Browser-based interface for maximum access flexibility
- Supports water, gas, and electric smart meter end points
- Complete two-way metering support including energy, TOU, demand, and interval data
- Designed to support smart grid initiatives
- Proven scalability and experience in optimized acquisition and management of interval data
- Full suite of status and event notifications including configurable alarm conditions for important network events
- Diagnostic reports and tools for AMI network evaluation and management
- Flexible billing schedule configuration and management
- Gatekeeper or end point meter on-request data read support
- Proven remote service disconnect support, either scheduled or on-request
- Flexible user role-based access and network management
- Robust security that meets leading and emerging security standards
- Clean user interface design including configurable system dashboard
- Designed for interoperability, supporting multiple industry standard interfaces including XML and SOAP
- MultiSpeak SOAP interface for integration with outage management systems
- Outage and restoration management via power status checks, service outage and service restoration notifications
- Demand response support using ZigBee or EA\_HAN NIC
- Critical tier override support
- Smart grid support using AGInodes™ designed for grid monitoring, sensing, and control
- Modem virtualization support
- Either 32-bit or 64-bit processing

## About Elster Group

Elster, a global leader in smart metering and smart grid solutions has delivered over 2.5 million smart metering devices worldwide with systems located in North America, Europe, Central America, Australia, New Zealand and the Caribbean. Elster smart metering system solutions provide utilities with energy conservation capabilities via demand response programs, smart grid applications, and operational efficiencies resulting in significant value creation across the utility enterprise. Elster has over 7,500 staff and operates globally in North America, South America, Europe, Africa, Middle East, and Asia.

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