



Meter Data Management System

Itron Enterprise Edition™ Essentials
Solutions for Municipal, Cooperative, & PUD Markets

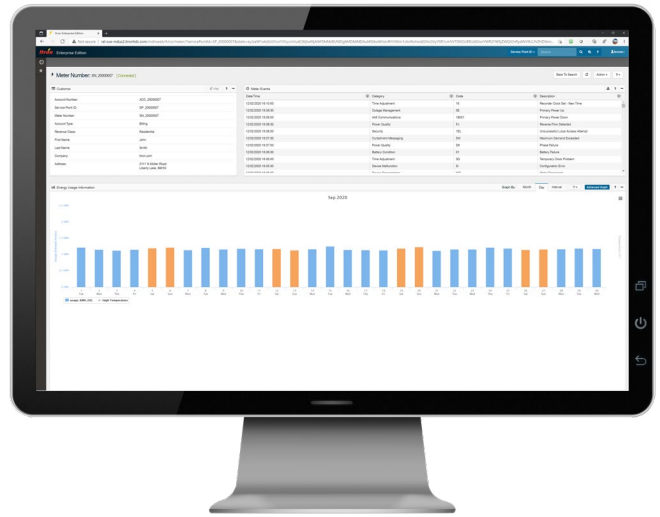


Customer		Meter Events	
Account Number	ACC_20000007	Date/Time	Category
Service Area ID	SP_20000007	12/02/2020 16:10:00	Time Adjustment
Meter Number	SN_20000007	12/02/2020 16:09:30	Outage Management
Account Type	Billing	12/02/2020 16:09:00	AMI Communications
Account Class	Residential	12/02/2020 16:08:30	Power Quality
First Name	John	12/02/2020 16:08:00	Security
Last Name	Smith	12/02/2020 16:07:30	Curtailment Messaging
Company	Iron.com	12/02/2020 16:07:00	Power Quality
Address	2111 N Miller Road Liberty Lake, WA 99019	12/02/2020 16:06:30	Battery Condition
		12/02/2020 16:06:00	Time Adjustment
		12/02/2020 16:05:30	Device Malfunction

Energy Usage Information	
Time	Usage
12/02/2020 16:00:00	1000
12/02/2020 16:01:00	1000
12/02/2020 16:02:00	1000
12/02/2020 16:03:00	1000
12/02/2020 16:04:00	1000
12/02/2020 16:05:00	1000
12/02/2020 16:06:00	1000
12/02/2020 16:07:00	1000
12/02/2020 16:08:00	1000
12/02/2020 16:09:00	1000
12/02/2020 16:10:00	1000

IEE Market Presence

- » IEE is the most globally deployed meter data management system in the world. Our installed base comprises over 100 customers across six continents with more than 45 million meters in production.
- » 'Leader' in Gartner Inc.'s Magic Quadrant for Meter Data Management (MDM) Products. IEE has been positioned by Gartner, Inc. in the Leaders quadrant of the Magic Quadrant for Meter Data Management Products six consecutive times from 2013-2018.
- » Tested for interval data collection and processing for up to 10+ million meters.
- » IEE Essentials is a 'slimmed down' version of our IEE solution.



With smart networks collecting volumes of information from your residential and commercial electric, water and gas meters, and IoT sensors, deploying a robust data management solution is essential for your success. Providing secure, accurate and reliable data to your upstream systems delivers operational efficiency that revolutionizes and accelerates how business value is delivered.

Relying on multiple systems and databases maintained in isolation can create bottlenecks, data errors and IT headaches that do not optimize your resources and employees' efforts. The volume of data produced by a network of smart meters and devices is integral to your ability to offer customers additional services and more innovative rate structures. Building new customer offerings or tracking regulatory requirements requires that smart devices and systems work in close concert with CIS/billing systems. Improving grid reliability, operations and customer satisfaction means collecting, validating, analyzing and acting on quality smart device data securely maintained in your data management system.

To make these business activities function seamlessly, utilities rely on a data management system. Data management systems provide an ideal remedy that creates a system of record where consistent, secure and auditable processes are enforced, and where all users and external systems can access accurate and reliable data from smart meters and sensors.

Itron Enterprise Edition (IEE) Essentials provides you with the focused capabilities of our industry-leading IEE Meter Data Management System (MDMS) to address your needs without sacrificing features or capabilities of the standard IEE offering—all while delivering a cost-effective solution.

IEE Essentials offers time-tested, reliable processes and interfaces regardless of the meter data's source or destination. IEE Essentials is a lightweight environment that provides key functionality to significantly reduce the likelihood of errors when utilizing data from smart devices. IEE Essentials features a fixed set of features with pre-configured settings, standard meter configurations and register billing. IEE Essentials is delivered in a hosted environment, making it easier to configure, manage and support AMR and AMI head-ends for gas, water and electric utilities.

IEE Essentials provides consistent, meaningful data to upstream utility applications and is a critical component to optimizing your smart device network. IEE eases IT integration of smart network meters and sensors while facilitating the distribution of meter and sensor data across the utility enterprise. By framing the volumes of interval data retrieved from the field into manageable and familiar information, IEE Essentials provides meaningful data to CIS, outage and engineering systems. Additionally, by consolidating key data from multiple collection systems into IEE, you can set consistent validation routines to truly evaluate the performance of your smart network.

Creating a cost-effective, tailored solution for you is straight forward with IEE Essentials. The IEE Essentials MDMS is based on the same full-featured, scalable and proven platform that has been implemented by over 100 customers around the world. Using IEE Essentials, you can grow your capabilities to support new business and regulatory requirements as necessary.

IEE Essentials provides the critical capabilities your company needs to help execute and realize the full benefits of a smart meter network and sensor deployment. With IEE Essentials, you can improve your demand response, net metering and time-of-use (TOU) programs to provide accurate, timely and validated data to your billing systems.



IEE Essentials Provides:

- » Itron headend or 3rd party bubble up integration
- » Validation and estimation
- » Load profiles, registers, events and alarms
- » Electric, gas, water and IoT service types



Collection

- » Itron headend or 3rd party bubble up integration**



Quality

- » 2 validation rules
- » 1 estimation routine
- » Versioned data storage+



Bill Determinants

- » Demand*
- » Energy*
- » Netting*
- » TOU*



Distribution

- » Industry standard integration for register-based billing
- » Extract daily load profile data

+ Storage of 2 years with ability to purchase additional
*Measured in Meter
** Conversions to Itron standard formats not included

METER DATA MANAGEMENT BENEFITS

- » Reduce field service costs through centrally brokered two-way remote connect and disconnect and on-demand read capabilities.
- » Support simpler, faster and less expensive rollouts of smart metering and IoT technologies gained by reducing the number of maintained interfaces between collection, billing, outage, engineering and work management systems.
- » Increase the quality of data by operating a single, central repository, instead of separate, inconsistently managed systems.
- » Reduce IT implementation and maintenance costs by improving the interoperability of applications with centralized interfaces to third-party AMI systems and utility back-office systems.
- » Improve data reliability with consistent and enforceable processes.
- » Reduce manual intervention on your residential customers to focus attention on your largest, most demanding customers.
- » Improve security and accountability through consistent auditing and versioning of all data.
- » Improve customer service by providing agents with more granular and timely information to resolve customer inquiries quickly.

KEY FEATURES

Simple integration using service-oriented architecture

- » IEE Essentials provides integration to either a Itron headend or a 3rd party headend using Itron standard formats. File-based, asynchronous and synchronous Web Service APIs available for two-way integration with Itron data collection systems. Integration with utility back office systems such as billing, work management and outage management is accomplished using industry-standard APIs.
- » Using industry-standard integration options reduces the total cost of ownership as utilities can leverage their investments in existing software, simplifying system-to-system integrations and user training.

Data collection integration

- » Store, secure and version control all of your residential data in one data repository.

Robust validation, estimation and editing (VEE)

- » IEE Essentials provides two validation rules and a single estimation routine. Validation rules are tailorable to meet your requirements.

Scalability

- » Scale from small deployments to high-volume, interval processing to support millions of devices—growing as your deployment expands.

Broad set of AMI interaction and controls

- » Two-way integration with AMI systems brokers to execute key AMI functions such as on-demand reads, meter reprograms and remote connect/disconnect to Itron Headends.

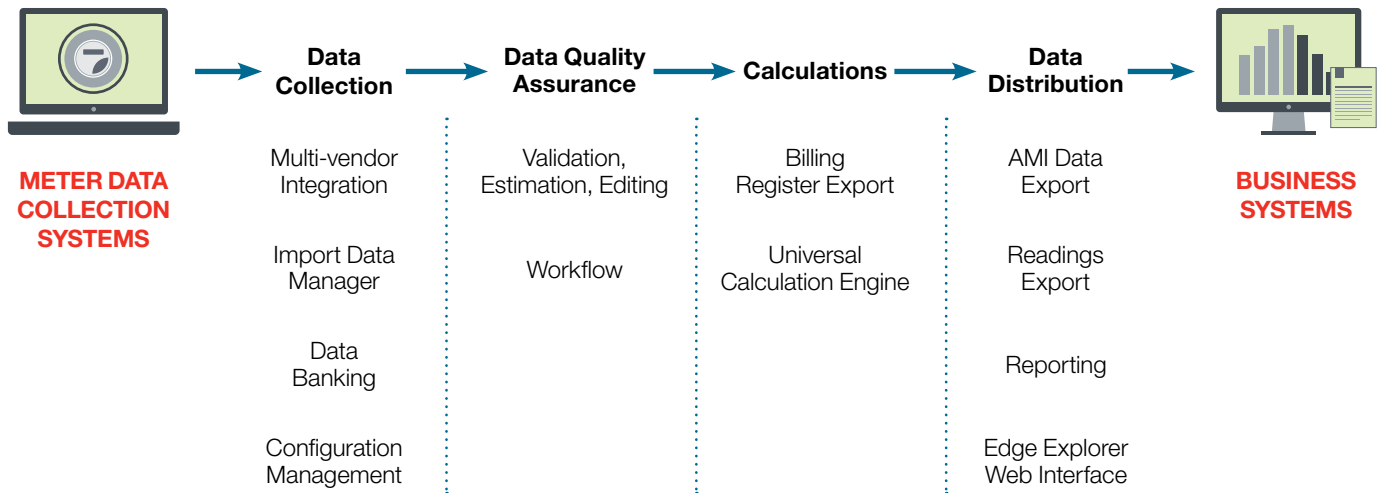
Flexible role-based security provisions

- » IEE implements a comprehensive security structure that includes auditing and tracking of critical business data, as well as logging for operational tasks and modifications of reading data via manual editing, estimation or validation.

Data collection integration

- » IEE Essentials can be integrated into either Itron UtilityIQ or OpenWay Operations Center. Our head-ends will provide you with industry-leading, highly reliable meter data collection capabilities. A file based option is available to 3rd party Headends using Itron standard formats.

IEE Essentials is cloud-hosted. IEE Essentials comes with two years of storage (longer terms are available), including interval data, register data, events and alarm data. For more information on our cloud-hosted offerings, visit our [services webpage](#).



IEE Essentials Features



Join us in creating a more **resourceful world**.
To learn more visit itron.com

CORPORATE HQ

2111 North Molter Road
Liberty Lake, WA 99019 USA

Phone: 1.800.635.5461

Fax: 1.509.891.3355

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