



Itron Enterprise Edition™ MDUS

Itron's SAP-certified MDUS Solution

In a constantly changing, data-intensive smart grid world, utilizing information from your smart metering system is critical to your success. Collecting the massive amount of detailed data is only half of the equation. As utility systems have grown and needs evolved, the efficient use of this new data in business and operational applications is an imperative and a growing challenge for IT. As an SAP-certified partner application, the Itron Enterprise Edition MDUS is Itron's MDUS (Meter Data Unification and Synchronization) solution. IEE MDUS offers you an end-to-end smart grid solution for managing and utilizing robust meter data—one that is fully integrated with SAP AMI for Utilities software.

IEE MDUS improves your operations by bringing the flood of data under control and managing the entire utility business data process flow—from the meter and across the network, through an analysis and data validation, into your customer information and billing systems. This seamless solution gives you the capabilities to support day-to-day billing operations and other applications such as energy conservation efforts and customer engagement

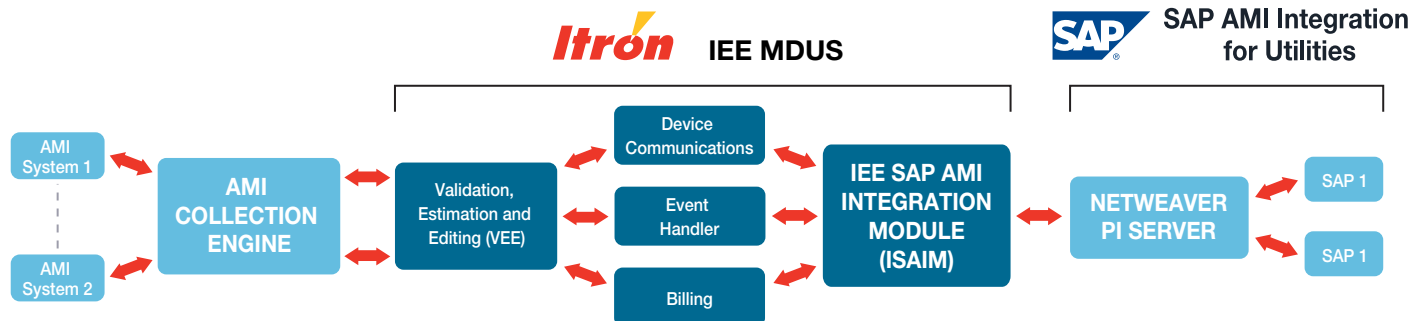
strategies. And because of its SAP certified and qualified status, IEE MDUS greatly reduces implementation time and ongoing administration and upgrade risks, lowering your total cost of ownership—and the headaches previously associated with tying disparate systems into a single solution. It delivers a unified smart grid platform to utility customers around the globe.

"Itron Enterprise Edition MDUS, now an SAP-qualified business solution, will help utilities improve efficiencies and maximize the benefits of a smart grid."

– Stefan Engelhardt, Head of Utilities Business Unit, SAP



SAP® Certified
Integration with SAP S/4HANA®



MDUS Architecture

BENEFITS

- » Reduced total cost of ownership through productized integration. The SAP-certified IEE MDUS solution integrates AMI systems with SAP business processes
- » Decreased project risks with industry-recognized meter data experience and meter-to-cash processes
- » Shortened implementation times with extensive experience integrating with SAP billing systems
- » Support for future applications with a robust yet flexible architecture that can incorporate new and diverse applications and services as business needs change

How It Works

IEE MDUS is based upon the IEE Meter Data Management (MDM) system with the Itron SAP AMI Integration Module (ISAIM) adapter to enable the SAP integration. IEE MDUS offers the core critical capabilities of a meter data management solution. It consolidates data from multiple metering and collection systems into a single database, provides analysis, validation, estimation and synchronization services, and passes the data to SAP for Utility Solutions. The IEE MDUS and SAP synchronization services support key AMI business processes such as meter provisioning and changes, delivery of meter readings and events, and calculations and delivery of billing determinants. IEE MDUS also supports brokering of two-way AMI commands such as on-demand reads and remote connect and disconnect commands from SAP to the AMI systems.

The Itron-SAP Difference

Itron and SAP have a long, established history of collaborating on customer deployments and on new solutions. IEE MDUS grew out of the two companies' partnership in the SAP AMI Lighthouse Council. The council was formed in August 2007 in part to foster the integration between meter data management systems like IEE MDM with smart grid/AMI systems and the SAP for Utilities solution portfolio. The result was the SAP Meter Data Unification & Synchronization (MDUS). IEE MDUS with the ISAIM adapter is Itron's MDUS solution.

Through this continued long-term partnership, IEE MDUS is:

- » An SAP-certified partner application supporting SAP for Utilities
- » Based upon Itron's industry-leading MDM product and implementation experience—over 100 MDM customers processing data from over 45 million meters
- » Future proof with continued commitments to maintain the integration as Itron's and SAP's products evolve independently

A Fully-Integrated, SAP-Certified Partner Application

SAP-certified partner applications, such as IEE MDUS, are complementary to SAP software offerings and provide additional choice and flexibility for organizations running SAP software. An SAP-certified partner application is developed and integrated in accordance with SAP development guidelines, has certified integration with the SAP NetWeaver® Process Integration (PI) technology platform, and has undergone solution qualification by SAP to meet additional criteria. SAP-certified partner applications address a specific business or technology focus—such as AMI.



Proven SAP Integration

Itron has more than a dozen customers who have implemented SAP integrations with IEE MDUS, representing more than 25 million endpoints. More than half of these customers have been in production for more than 10 years. SAP integration with IEE MDUS continues to become more robust due to the extensive experience with these customers.

KEY FEATURES

SAP-Certified Partner Application

- » Productized and certified integration of over 80 services
- » Since its inception, IEE MDUS has had several certifications by SAP, with the most recent in 2021 with S/4 HANA

Integrates AMI Systems with SAP End-to-End

- » Robust and secure two-way integration with smart grid/AMI collection systems and utility operations systems such as billing, work and outage management
- » Out-of-the-box integration with Itron's UtilityIQ®, OpenWay™ and ChoiceConnect™ smart metering solutions and production-proven integration with other third party AMI technology providers

Broad Set of AMI Use Cases

- » Configuration synchronization such as meter provisioning and changes
- » Delivery of meter readings and events
- » Calculations and delivery of billing determinants
- » Two-way integration with SAP and AMI systems to broker and execute key AMI functions such as on-demand reads, remote connect/disconnect, HAN messaging, and meter status check

Robust VEE and Calculation Engine

- » IEE MDUS leverages the core IEE Validation, Estimation and Editing (VEE) rules and its robust calculation engine for interval and register data to create billing-quality information which is fully capable of meeting rigorous financial standards worldwide and simultaneously support different VEE rules for non-billing scenarios

Scalability

- » IEE MDUS is based on Itron Enterprise Edition which offers proven, high volume AMI processing that supports millions of interval meters to meet the needs of even the largest AMI deployment



Operational Efficiency

- » 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
- » IEE MDUS includes tools optimized for operators to investigate and efficiently resolve high volumes of exceptions that occur with daily AMI operations and interval billing
- » Workflow automation to quickly identify and resolve a wide range of exceptions, with seamless integration with work order management systems and SAP

SPECIFICATIONS

- » SAP for Utilities: ECC 6.0 EhP7 and EhP8, or S/4 HANA 1809, 1909, 2020 and 2021
- » Database Platforms: Oracle® 19c on any Oracle-certified OS/hardware platform or Microsoft® SQL Server® 2017 or 2019
- » Operating Systems: Windows Server 2016 or 2019 for Server side application; Windows 10 for IEE MDM client application



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