Saturne

Advanced Data Collection Software

Today's fast paced energy market demands effective and smart solutions to meet broad business challenges. Saturne, a powerful advanced data collection software, brings the long-awaited answers to the challenge of Advanced Metering Management by enabling state-of-the-art AMI functionalities.

KEY BENEFITS

» Multi vendor, commodity & segment
» Support for various topologies
» Highly scalable & secure
» Support for post & pre-payment
» Dedicated reporting solution

VERSATILITY

Saturne has the capability to manage point-to-point (GPRS, PSTN, GSM, Ethernet) and point-to-multi-point (PLC and RF via a concentrator) topologies. The data collection process is organized according to the topology and can be simultaneously supported by the same platform.

Saturne is very flexible and powerful, supporting metering data and event collection in various communication architectures.

Saturne has been designed to ensure perfect metering communication regardless of the communication technology in place.

FLEXIBILITY

Multi-vendor

Saturne is a true multi-vendor solution that enables utilities to collect data and manage a wide range of meters from different manufacturers. Saturne supports devices based on common open standards including DLMS/COSEM, IDIS, PRIME, PLAN, etc.

Multi-segment

With a multi-segment solution, utilities can also deal with C&I or residential meters. Based on each Utility business needs, Saturne is configurable to highlight the most important aspects of each type of meter, collecting and processing meter data such as load profiles, multi-tariff billing registers, meter status information, quality data, events and alarms, among others.

Multi-commodity

Saturne has concrete ability to simultaneously manage multi- energy meters such as electricity, gas, water,

cooling and heat. Thus Saturne is a strong tool for multi-energy roll outs.

CONNECTIVITY AND STANDARD COMPLIANCE

Enabling utilities to anticipate regulatory changes, Saturne is built on market standards with full support for the major international protocol specifications currently available in the market (e.g. PRIME, PLAN, IDIS, etc).
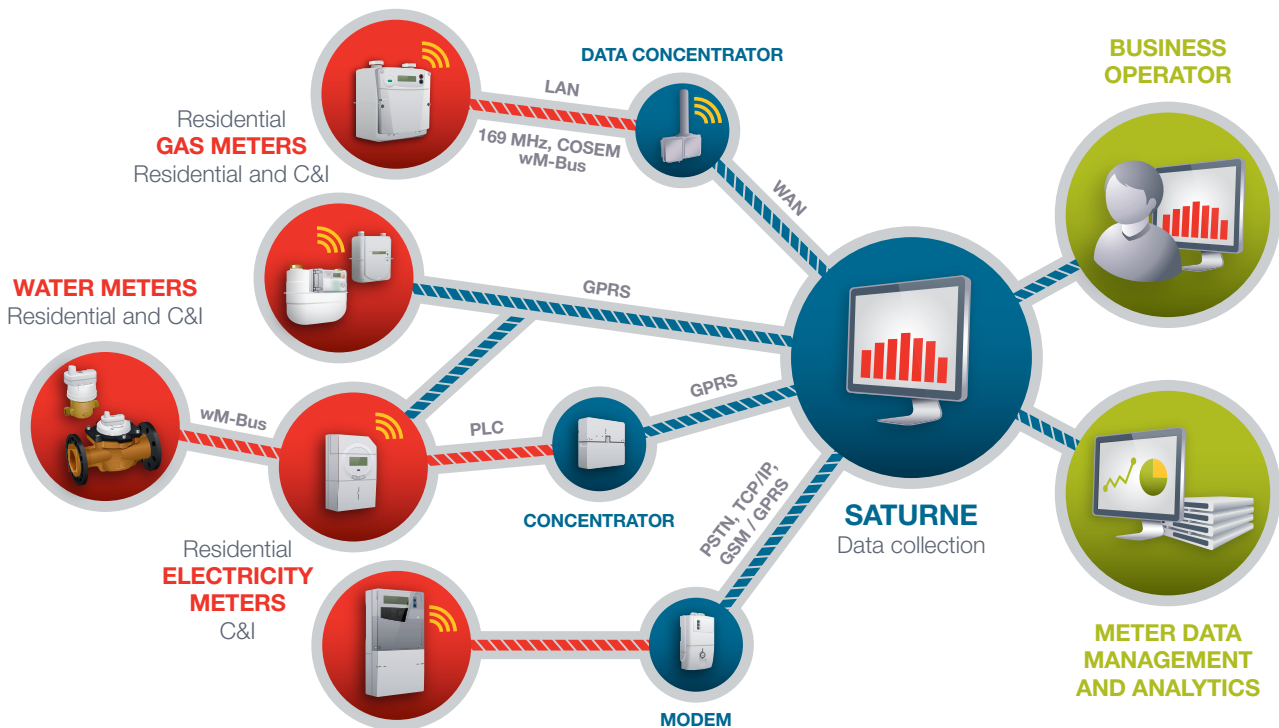
Saturne architecture allows quick implementation to support DLMS/COSEM based protocols.

REPORTING

Saturne provides a dedicated reporting platform for generating complex data reports without compromising the core activities of the Saturne system.

Standard reports, such as those for daily data collection statistics, meter events, meters not communicating, etc. are easily augmented with customer-specific reports to meet particular business or operational requirements.

SOLUTION ARCHITECTURE

DATA CONCENTRATOR

Residential
GAS METERS
Residential and C&I

LAN

169 MHz, COSEM
wM-Bus

WATER METERS
Residential and C&I

GPRS

WAN

**BUSINESS
OPERATOR**

GPRS

wM-Bus

PLC

Residential
**ELECTRICITY
METERS**
C&I

CONCENTRATOR

PSTN, TCP/IP,
GSM / GPRS

SATURNE
Data collection

**METER DATA
MANAGEMENT
AND ANALYTICS**

MODEM

SECURITY AT ITS CORE

Saturne leverages Itron's extensive experience in AMI worldwide, and through Saturne Security Manager (SSM), which is part of Itron's global end-to-end security solution, provides support for high level security, managing certificates, WAN payload ciphering and able to interface with different key management systems. SSM has native integration with Itron Security Manager (ISM) which enables Utilities to implement and activate security in a cost effective and timely manner.

FLAWLESS INTEGRATION

In any smart grid initiative, flexibility, interoperability and flawless information exchanges are key to successful deployment.

Minimizing the cost of ownership, Saturne is built on openness, providing different integration mechanisms, enabling quicker and seamless integration with any enterprise-class system based upon industry standards (XML, SOA). Saturne API is a CIM-based interface with support for different on-demand requests and meter commissioning use cases.

Our upcoming release will feature the native integration with Itron Analytics. This enables data analysis like Revenue protection, Energy balancing, Tampering, Voltage monitoring.

OPTIMUM BUSINESS PERFORMANCE

Saturne is not only focused on data collection performance but also on all the business processes directly involved with a large meter population. On demand requests, transaction logging, mass firmware upgrade, usability, among other critical functions, are built and maintained with strong focus in large scale environments.

GLOBALLY PROVEN

With 5 million endpoints across the globe, Saturne is globally proven. A comprehensive support for major market standards and a scalable business solution make it the safest choice for mass rollouts with minimum risk.

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

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