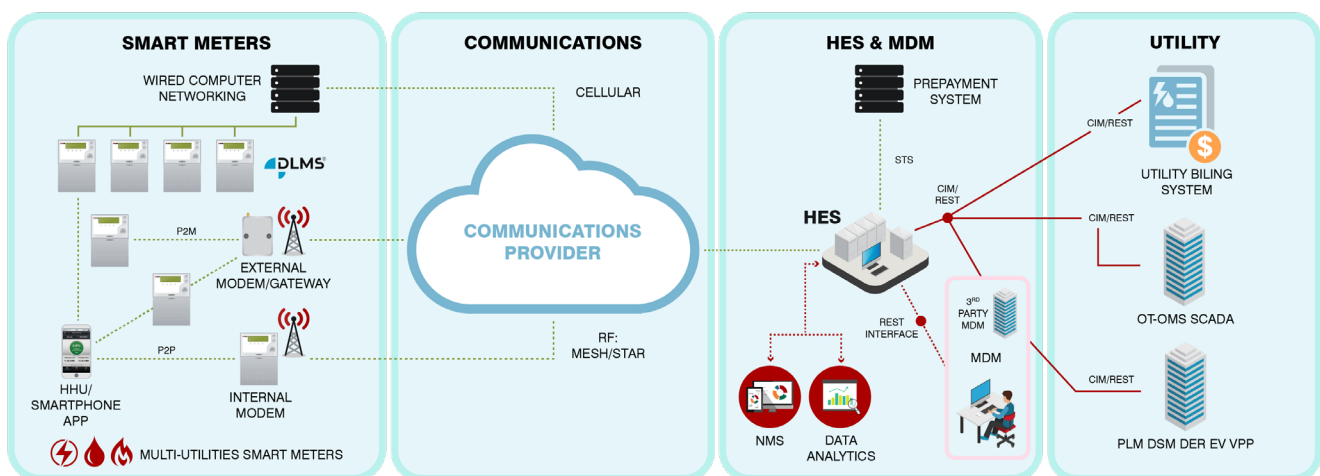# EDMI

SOFTWARE

Storm

On-Premise/Cloud Based Head End System for AMR and AMI Deployments

Storm is a complete meter data normalisation and meter management software package. The software allows the collection of large amount of data from utility meters or measuring devices in an AMR/AMM/AMI system using various communications technologies.

| Key Features

| FLEXIBLE | REMOTE METER MANAGEMENT | HIGH PERFORMANCE | SUPPORT MULTI VENDOR PROTOCOL | HIGH SECURITY |

Storm

On-Premise/Cloud Based Head End System for AMR and AMI Deployments

Meter Data

- Bi-directional communication
- Audit trail and event and alarm logging
- Encryption of data for secure communication
- Setting of smart meter configurable parameters
- Communication device status and history
- Network information
- Settings of parameters for time of day (TOD/TOU) billing
- Billing date
- Clock setting
- Load curtailment limit - current limit, power limit
- Lock out period for relay
- Keys setting
- Dynamic data model
- Data repository

Command Management

- Relay connect/disconnect
- Meter configuration
- Commissioning/decommissioning
- Firmware upgrade
- Prepayment tokens
- Clock synchronization

Measured Data Collection

- Storage and recovery of measured data
- Retrieval of time of use data. The system supports multi-register billing requirements, daily, monthly and three-monthly billing cycles and snapshots and interval values
- Retrieval of interval data including multi-utility consumption data
- Retrieval of power quality event data
- Retrieval of maximum, minimum and average voltage, current and other electrical quantities

Scheduling

- Robust scheduling engine to trigger functions via timed schedules, on an ad hoc basis or based on events received from meters
- Supports server or meter initiated connections

B2B Interface

- Includes file/database export and Application Programming Interface (API)

Security

- All data are encrypted using High Level Security (HLS)
- Secure Sockets Layer (SSL) protocol shall be used for IP based connection
- For user interface, web traffic is over https (TLS/SSL encryption over HTTP)

Reporting

- List of devices interactions and exports
- Communication with Data Concentrator Unit and Gateway
- Alarms and Events
- Communication link failure with nodes/end points
- Network failure
- Retry attempts
- Missed periodic reading
- Unlocks all the functionality of the feature rich EDMI Atlas smart meters

Architecture and Performance

- Supports multiple communications servers load balancing to allow scalability and availability
- Thick and thin clients for supporting multiple concurrent users
- Ability to export data to other systems via file/DB and other standard interfaces
- API's to allow full control of functionality from back office systems
- Can be tailored to match operational constraints
- Supports both on-premise and cloud-based deployments
- Designed to operate in a utility environment with 24/7 up time
- Capable to integrate with MQTT/JSON/REST
- Support virtual machine, clustering and other HA technology so it can be integrated with the latest DR and business continuity planning

Operating System

- Runs on virtual machines
- Microsoft SQ: server database

Hardware

- 38 Virtual machines (minimum)
- 422 GB RAM, 1.9 TB hard disk

Function Overview

B2B INTERFACE						
TOU	INTERVAL DATA	PQ DATA / EVENTS	DATA MODEL	REPORTING	INFO DISPLAY	SCHEDULING
MEASURED DATA MANAGEMENT			METER DATA			
METER SETUP		FIRMWARE		METER EVENTS		
COMMAND MANAGEMENT						
PROTOCOLS		CONNECTION MANAGEMENT		COMMISSIONING		
NETWORK MANAGEMENT						
SECURITY						

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