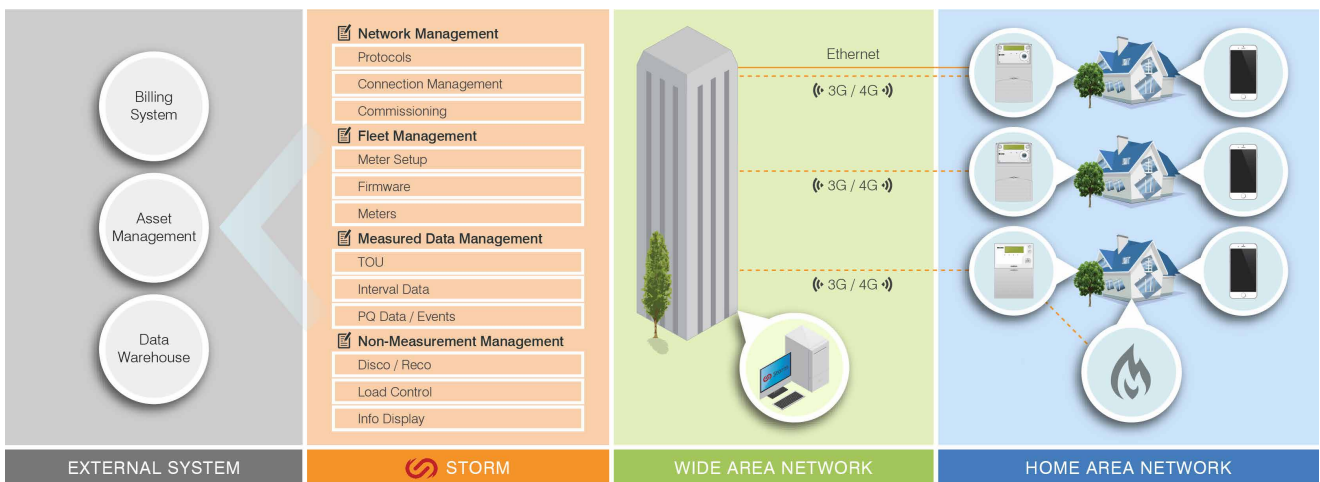




SOFTWARE



Cloud-Based Head End System for AMR and AMI Deployments



Storm is a next generation head end, which radically simplifies the installation, management and operation of massive meter fleets through state of art cloud computing technology. The software system also provides secure, accurate, reliable data to a wide array of utility billing and analysis systems. Storm is available in a SaaS (Software as a Service) model, delivered on Microsoft Azure cloud computing infrastructure.

I Key Features

				
FLEXIBLE	REMOTE METER MANAGEMENT	HIGH PERFORMANCE	HIGH SECURITY	HIGHLY SCALABLE



Cloud-Based Head End System for AMR and AMI Deployments

Communications

- Reliable communication with meters
- Compatible 3G, 4G
- Bi-directional connection establishment
- Dynamic IP support

Fleet Management

- Meter information
- Automatic verification of meter fleet configuration
- Meter Lifecycle Management
- Meter Activities Dashboard
- Device filtering and tagging
- Configuration management
- Device firmware management

Measured Data Management

- Retrieval of time of use data
- Retrieval of interval billing data
- Retrieval of power quality interval data
- Read instantaneous values
- Option for Guaranteed Data Delivery

Non-Measurement Functionality

- Connect / disconnect
- Load control
- Time Synchronisation

Bulk Operations & Scheduling

- Ability to schedule functions based on events received from meters, timed schedules or on an adhoc basis.
- Supports server or meter initiated connections

Application Management

- Realtime Data Delivery Dashboard
- Data Delivery trend reporting

- Realtime High Volume Data Dashboard
- Communications Dashboard
- System Audits
- Export Audits

B2B Interface

- Restful web services
- Browser based User Interface
- File export / import

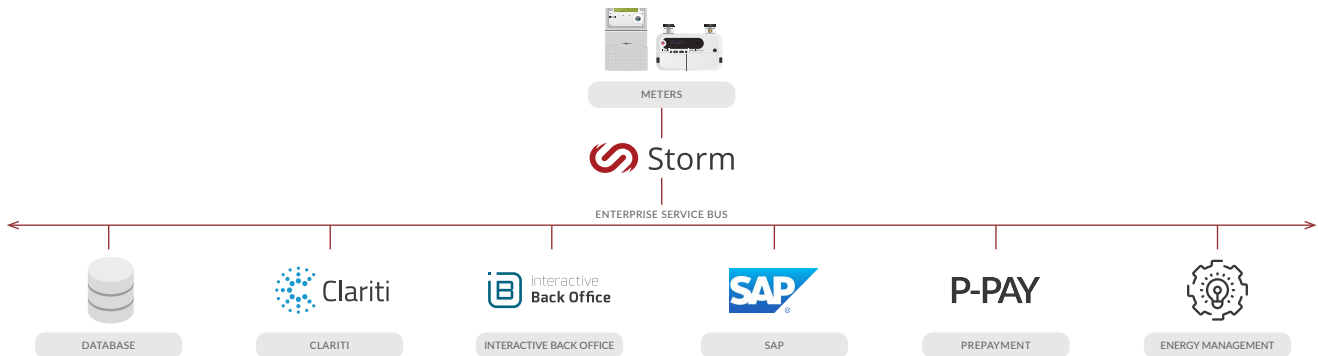
Integrated Field Controller for Windows

- Support online and off line field operations
- Independent security
- Native support for data integrity

Benefits

- More Data in Less Time
 - Nightly Reading Window: > 1 million reads and exports per hour
 - High Frequency Reads - 5 to 15 minutes collections in addition to nightly window
 - Real-Time Data Streaming (1 to 10 second intervals) for Customer Engagement, Usage Management, Demand Response & other applications
- Resilient and Scalable
 - Scalability (10 million meters)
 - Reduced Infrastructure Cost (pay for what you use, when you use it - not peak usage all the time) and reduced IT operations costs (platform, and software management and maintenance costs included in the solution)
 - Built in Disaster Recovery and High Availability
- Easy to Use, Change and Integrate
 - Automatic Meter Commissioning
 - Single Sign On (integrated with clients corporate Active Directory)
 - Fully compliant with advanced distributor load control requirements
 - Native support for AMI demand response
 - Real time meter diagnostics
 - "Object based" meter configuration through "Business Services"
 - Dynamic Service enablement (enable / disable, upgrade business services)
 - Low cost trials of advanced metering functionality e.g. Realtime meter data, analytics - Automated Meter Configuration and Firmware Upgrade
 - Client controlled user authentication (through Microsoft Active Directory & ADFS)
 - Easy back office systems integration through Web centric APIs and data formats (REST & JSON)
 - Easy integration with globally distributed energy eco system (Cloud to Cloud APIs; Smart Phone Apps)

Function Overview



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