

🖉 Storm

Next Generation, Hyper Scalable Head End System for

AMI Deployments



Storm is a next generation head end, which radically simplifies the installation, management and operation of massive meter fleets through state-of-the-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.

Key Features





SUPPORT MULTI VENDOR PROTOCOL

🕢 Storm

Next Generation, Hyper Scalable Head End System for AMI Deployments

Reliable Communications

- Robust communication across large meter fleets
- Compatible with most cellular technologies
- Supports both push and pull communications mechanisms
- Dynamic IP support
- · Carrier network load balancing
- Wi-Fi support

Fleet Management

- Meter, modem and edge device-asset tracking
- Automatically update and synchronize meter configuration across the fleet
- Device installation tracking
- Device filtering and tagging
- Device configuration management
- Run and manage device firmware upgrade campaigns

Metering Data Management

- Guaranteed delivery of data to billing, network management and other downstream systems
- · Support for multi-register billing in time of use data
- Support for daily, monthly and quarterly billing cycles, time of use snapshots, and seasonal rate changes
- Build custom schedules for separate / combined collection and delivery of revenue, consumption and power quality data
- Configure different export pipelines to leverage data across different platforms; billing systems, low voltage network management, consumer engagement, virtual power plant systems, etc
- Multi utility support for electricity and gas meters
- Power quality event data including sag/swell, total harmonic distortion, unbalance, max current exceedance
- Configuration of instantaneous values as maximum, minimum and average measurements
- · Diagnostic reads of instantaneous values

Function Overview

Remote Control

- Mains connect / disconnect
- Rule based / Automated load control
- Time synchronization across all devices
- Real time meter diagnostics

B2B Interface

- Restful web services for meter provisioning and operation
- Configurable export endpoints; Service bus queue, blob storage, webhooks, FTPS

More Data in Less Time

- Nightly reading window: millions of 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

- Scalable to millions of devices
- Reduced infrastructure cost (pay for what you use, when you use it - not peak usage all the time)
- 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

- Automatic meter commissioning
- Single sign on (Integrated with clients corporate active directory)
- Fully compliant with advanced distributor load control requirements
- Browser based user interface providing monitoring over communications performance
- "Function based" meter configuration through "business services"

Easy to Change

- Dynamic service enablement (enable / disable, upgrade business services)
- Low cost trials (e.g. realtime data, secondary push, analytics)
- · Automated meter configuration and firmware upgrade

Easy to Integrate

- Client controlled user authentication (through Microsoft active directory)
- Easy back-office systems integration through web centric APIs and data formats (REST & JSON)
- Option for "Guaranteed data delivery"

Storm Mobile

- · iOS / Android field tool for installers and technicians
- Bluetooth Optical Read Head
- Support online and offline field operations, including meter reading, firmware & configuration changes, field diagnostics
- Automatically synchronizes with Storm Head End System

Load Control

- Calendar & rule-based load control
- On demand load control, via cellular network
- Ripple load control

Outage Detection

- · Leverage meter fleets to detect network outages
- Monitor for network restoration

Access to Realtime Data

- High frequency reads and data streaming over both Wifi and cellular
- Cloud first architecture for delivery of near real time data across an entire fleet

Network & Safety Monitoring

- Meter alarms pushed to Storm cover an extensive set
 of safety & compliance scenarios
- Set custom thresholds for voltage, current, THD, voltage unbalance
- Detect potential wiring issues through temperature comparisons and source impedance calculations



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