



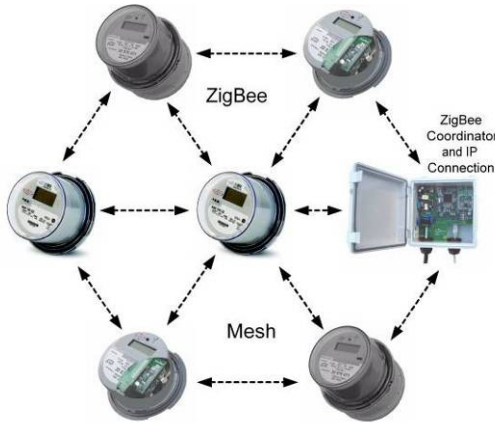
Powering utility applications with
Open Standards
Including IP and 802.15.4/Zigbee



WebGate® TotalPoint™ System

Extending the IP Network with ZigBee for a Complete and Open AMI Solution

WebGate TotalPoint Network Topology



Open Solution for AMI Leverages muNet IP Expertise and ZigBee Features

For utilities and others interested in using existing broadband network infrastructure for meter data back haul in Advanced Metering Infrastructure (AMI) projects, the WebGate TotalPoint System creates a complete, standards-based, two-way, mesh network for meter data collection that will interface with any IP-based broadband technology for real-time communication throughout.

ZigBee Provides Open Mesh Networking Platform

By utilizing IEEE 802.15.4 and ZigBee wireless networking standards, the TotalPoint System creates the WebGate IP Extension Mesh, a robust wireless mesh network that maximizes range through intelligent routing, ensures redundancy with dynamic self-healing properties, and enables core metering applications such as 'Instant' reads, Time-of-Use rate programs, and remote service disconnect and reconnect. Further, with advanced load management and thermostat control, it is a platform with growth potential built in.

IP Backhaul and Back Office Support from Vendor with 9 Years Experience

Data acquired from TotalPoint Meter Interface Modules (MIM's) is collected by strategically placed TotalPoint Gateways that seamlessly connect to any available Broadband WAN technology. All System functionality and management is seamlessly handled by the muNet WebBot™ Central Control Web-based software. Or, use the muNet open protocols to connect to the back office solution of your choice.

WebGate® TotalPoint System Features and Components

- Supports residential and commercial & industrial metering applications
- Enables advanced load management via direct relay and thermostat control
- All System components hold metering data in non-volatile memory
- Full range of security and encryption options including 128-bit AES encryption

TotalPoint Meter Interface Module (MIM)

- Under glass of leading solid state metrology
- Always-on, two-way communication
- Time-stamped interval data for TOU applications and storage
- Remote disconnect and reconnect functionality

TotalPoint Gateway

- Coordinates communication to installed Meter Interface Modules
- Forwards exception and tamper reporting
- Mirrors historical meter data for System redundancy
- Reports current meter and network status

Cable (HFC), Fiber, Ethernet, WiFi/WiMAX, HomePlug and DS2 Broadband Over Powerline

WebBot Central Control Software

- Collects interval data from all installed Meter Interface Modules
- Forwards network status and tamper alarms
- Initiates command and control operations for all components
- Interfaces to legacy billing and CIS

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