IBM Intelligent Metering Network Management

Monitor and control your smart grid infrastructure

Highlights

- Manage many linked devices with highly complex flow of information

- End-to-end service management with real-time monitoring of networked devices

- Speed deployment with open industry standards to help align technology with business objectives

Today's intelligent utility network is different from the communication infrastructure of the past. It is digital, high speed, two-way and increasingly populated with IP enabled distributed devices. The number of endpoints is exploding—expanding network coverage from the substation into the home or business. The IBM® Intelligent Metering Network Management solution can help your utility company manage complex networks and IP enabled devices deployed to support smart grid and smart metering projects.

Manage complexity across a smart grid

As utility companies deploy IP-enabled networks with smart meters and sensors on the grid, the integration of what were once separate IT, grid and communication networks drives the requirement for integrated network visibility, control and automation. Smart meter deployment and communication network implementation from the substation to the customer require sophisticated operational management to keep track of changes plus monitor alerts and ever-changing network events. How well this is done impacts service levels and the customer's perception of their service availability. IBM Intelligent Metering Network Management provides the capabilities to collectively manage many linked devices with highly complex flow of information.

End-to-end service management

Utility companies are designing, building and managing new networks with requirements for improved security, reliability and scalability. IBM Intelligent Metering Network Management—part of the smart metering and beyond solution from IBM—provides an end-to-end service management approach with real-time monitoring of the wide variety of devices residing on the transmission and distribution networks.

IBM Intelligent Metering Network Management delivers capabilities from IBM Tivoli® to monitor and manage the network across smart meters, cell relays/concentrators, meter head-ends, applications and systems. The core capabilities enable utility companies to:

• Consolidate events and alarms in a "manager of managers" environment through IBM Netcool® OMNIbus.
• Correlate event and problem management with Netcool Impact.
• Enable network discovery, topology visualization and root cause analysis with Netcool Network Manager.
• Manage configurations and changes to remote devices with security policy and intelligent backup through Netcool Configuration Manager.

Your utility can add additional capabilities with IBM software to:

• Secure integration of the data with IBM WebSphere® DataPower®.
• Simplify the management of the business events and rules in one simple-to-use engine though IBM WebSphere Decision Server.

Monitor, consolidate and analyze information from IP-enabled devices on transmission and distribution networks.

• Analyze high volume real-time data with   IBM InfoSphere™ Streams.
• Improve asset lifecycle management with IBM Maximo®.
• Exploit rich business analytics and reporting solutions using IBM Cognos®.
• Take advantage of advanced metering infrastructure (AMI) security and operational dash boards with Tivoli Security and Business Service Management.

IBM Intelligent Metering Network Management is built on the IBM Solution Architecture For Energy and Utilities Framework (SAFE). SAFE is a software platform uniquely designed to enable data and business process integration for solutions throughout the energy value chain. The SAFE framework supports open and industry standards that help align technology with business objectives and offers industry accelerators to speed deployment of Intelligent Metering Network Management capabilities.

Scale and integrate one project at a time

To help prevent outages and improve fault detection across the breadth of the intelligent utility network, IBM Intelligent Metering Network Management tools can help your utility integrate service management for multiple devices and networks into a single network operations view.

Your utility company can manage services level agreements for various projects including AMI, outage management system (OMS), meter data management system (MDMS), enterprise asset management (EAM) or distribution management system (DMS). You could also create a comprehensive service management system one step at a time by integrating AMI, DMS, OMS, etc. systems as they are implemented.

With an end-to-end service management approach, your utility can automate business processes like meter and sensor installation, remote connect/disconnects, and trouble ticket management. As you move actionable information across the grid on a timely basis, you can better connect people, assets and actions. This integrated network communications infrastructure helps link business resources, transmission and distribution networks and customer service.

Trust our experience for success

Intelligent Metering Network Management, built on the SAFE framework, can help you work smarter by focusing on value, using new opportunities and acting with speed. Work with IBM, we have trusted experience, skills and technology through delivering more than 150 smart grid projects around the globe. Gain better visibility, control and automation of your intelligent utility network with help from IBM.

For more information

To learn more about IBM Intelligent Metering
Network Management, please contact your
IBM representative or IBM Business Partner, or visit:
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