CONTROL AND MANAGEMENT SYSTEMS

ABB Ability™ Network Manager™
Operational confidence.
Every day, ABB helps utilities provide reliable, clean and affordable power to millions of people and thousands of businesses and communities, big and small.
From delivering energy to individual homes to powering critical transportation infrastructure such as airports and subways, ABB has the software solutions to help you keep cities alive and connected. When disruptions do occur, your ABB system has the safeguards and tools to improve response and minimise recovery times to lessen the impact on families and businesses. You can count on ABB’s continual innovation to provide the flexibility and technological advances to keep your network resilient to any new operational challenges that arise as the grid grows and evolves.

Have ultimate confidence in your network with ABB.
ABB Ability Network Manager portfolio

- **SCADA**
  Supervisory Control and Data Acquisition

- **ADMS**
  Advanced Distribution Management System

- **EMS**
  Energy Management System

- **GMS**
  Generation Management System

- **MMS**
  Market Management System
Remote supervisory operation
Network Manager SCADA

Network Manager SCADA is a real-time platform for reliable and secure operation of electrical power networks, ranging from generation, transmission and distribution to railways and airports. Hundreds of ABB customers in the utilities, transportation and industrial sectors around the world rely on Network Manager SCADA to efficiently control and manage their power systems for optimal performance.

Network Manager SCADA benefits
• Scalable, high performance, high availability and cyber-secure SCADA platform
• Open architecture that allows integrations with other information technology and operations technology systems
• User interface was designed with operator situational awareness as a top priority
• Ideal for both large and small control room environments running 24x7 operations
**Advanced distribution management**

**Network Manager ADMS**

ABB Ability Network Manager ADMS enables the efficient management of sub-transmission, medium- and low-voltage distribution networks. Network Manager ADMS is an integrated distribution operations platform that includes the following:

- Distribution SCADA
- Distribution Management System (DMS)
- Outage Management System (OMS)
- Distributed Energy Resource Management System (DERMS)

**Network Manager ADMS benefits**

- Unified network model on a common user interface for seamless workflow
- Improve reliability and system efficiency, and reduce the impact of outages
- Optimise entire outage lifecycle management process, from outage planning to customer communications, service restoration and post-regulatory reporting
- High performance and scalable solution for real-time optimisation and control of thousands of DERs at the grid edge
Transmission management
Network Manager EMS

Transmission companies in both regulated and deregulated markets use Network Manager EMS to provide reliable and high-quality bulk electric supply. An integrated wide-area monitoring system (WAMS) and other advanced applications help operators achieve and maintain an optimal operating state.
Network Manager EMS benefits

- Manage network complexities using the advanced state estimator and power applications
- Early detection of network congestion to prevent equipment overload and voltage collapse
- Access online operational data for improved decision support and resource utilisation
- Ensure compliance with transmission regulatory requirements
Generation management
Network Manager GMS

Network Manager GMS helps generation companies optimise usage of their available generation assets to meet contractual obligations and profitability targets while complying with regulatory requirements and emission constraints.
Network Manager GMS benefits

- Control a mix of conventional and renewable generation sources
- Minimise production costs whilst maintaining adequate reserves
- Improve profitability when operating in day-ahead and real-time markets
- Online operational data for improved decision support & resource utilisation
- Ensure compliance with generation regulatory requirements
Market management
Network Manager MMS

Network Manager MMS enables market and system operators to manage energy markets by providing advanced tools for market clearing and congestion management for nodal and zonal markets. ABB’s solution has been trusted for over 20 years by the largest ISOs and RTOs worldwide to meet the most stringent performance criteria demanded by the most sophisticated markets.
Network Manager MMS benefits

- Realise the benefits of efficient and competitive wholesale electricity markets
- Integrate renewable resources into forward and real-time markets
- Efficiently incorporate demand-side participation markets
- Maintain seamless and reliable market operations
- Effective automated processes across market-related functions
- Operational efficiencies
- Renewables integration
- Improved reliability
- Grid resilience
ABB Ability™ Network Manager™ puts you in control.