ABB Ability™ Network Manager™ X
Operational confidence.
With the grid growing more complex, operators need complete visibility of the grid, across the traditional boundaries of transmission and distribution networks.
Network Manager X provides operators with a single, unified view of the whole electrical network.

The new modern user interface delivers enhanced situational awareness and advanced network applications, giving operators absolute control of their network and full confidence in their operations.

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.

Integrated operations platform for unified network management
ABB Ability Network Manager X 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 X 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 X to efficiently control and manage their power systems for optimal performance.

Benefits for SCADA operators

- 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
Network Manager X enables the efficient management of sub-transmission, medium- and low-voltage distribution networks. As an integrated distribution operations platform, it includes the following:

- Distribution SCADA
- Distribution network applications
- Outage management system (OMS)
- Distributed energy resource management system (DERMS)
- Analytics

Benefits for distribution operators

- 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
Transmission companies in both regulated and deregulated markets use Network Manager X 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.
Benefits for transmission operators

- 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 X helps generation companies optimise usage of their available generation assets to meet contractual obligations and profitability targets whilst complying with regulatory requirements and emission constraints.
Benefits for generation operators

- 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 X 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.
Benefits for market operators

- 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™ X
puts you in control.