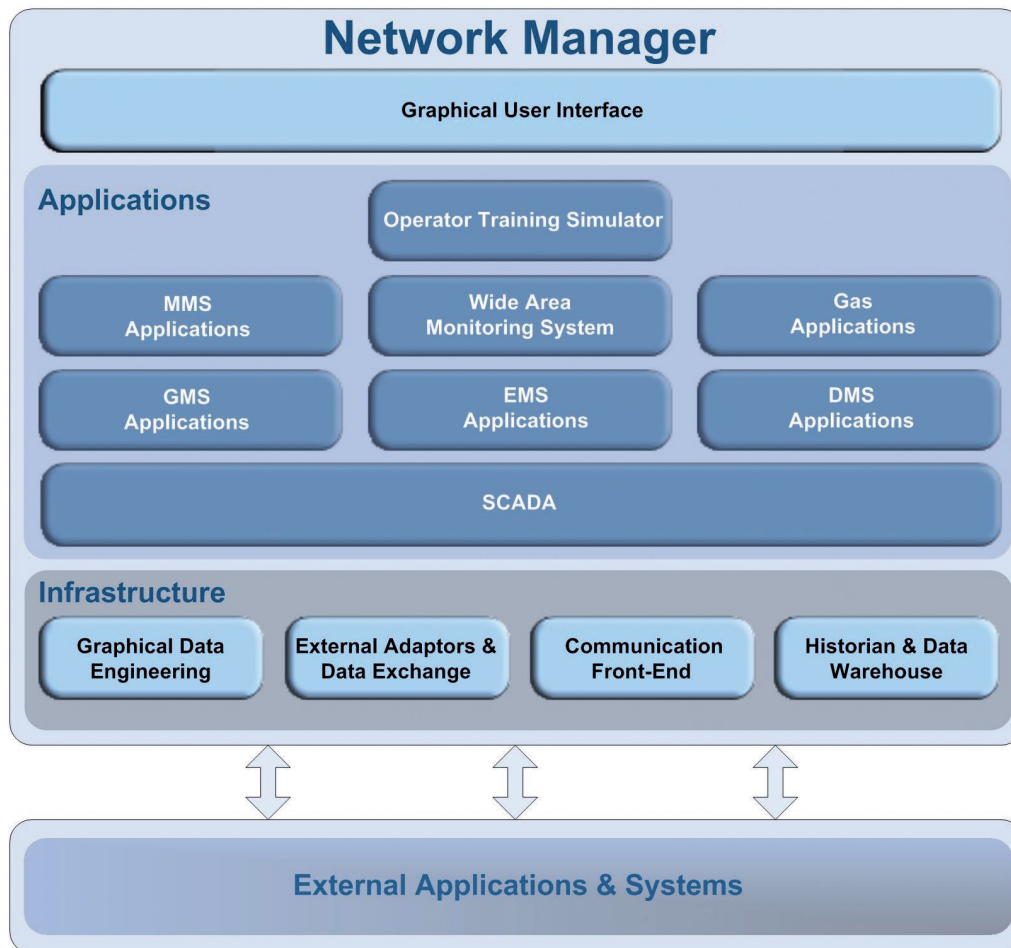


Network Manager™ Energy System Operation



The right information at the right time – Network Manager, a key component of ABB’s solution for Smart Grid

Continued business success demands a flexible IT solution specifically designed for control center operations and a comprehensive service program. Network Manager, the market leading solution to managing complex energy system processes while ensuring cyber security, provides just such an IT solution.

Network Manager is a control center solution that ensures a secure and efficient energy system operation. Network Manager is also an energy information system, providing reliable process information to the decision makers. Its modular functionality can be tailored to the needs of each company and provides comprehensive maintenance tools for smooth system expansion. Network Manager offers best-in-class advanced applications for optimal operation of multi-utility networks including electricity and gas.

Open and versatile platform

Network Manager is an open and versatile platform based on the latest industry standards, which allows for easy integration with other utility information systems.

It facilitates a secure, reliable and efficient grid operation, not only for managing today’s power networks but also for tomorrow’s Smart Grids, with rapidly expanding sources of renewable energy.

Network Manager is based on ABB’s global experience as the supplier of more than 400 installations worldwide.

ABB forms a long-term partnership with our customers by delivering state-of-the-art applications and high quality customer service.

With our solution and support, our Customers are able to increase profitability in both energy supply and business processes, improve customer service, and minimize environmental impact.

Network Manager Portfolio

Managing the Transmission Grid consists of finding the optimum solution for transmission network operations in deregulated markets and for combined network and power generation operations in traditional markets. Network Manager SCADA/EMS provides functions and integrated advanced applications for the analysis and optimization of day-to-day operations.

It enables operating costs to be reduced while increasing system security.

User benefits of Network Manager SCADA/EMS:

- Visualization and situational awareness support for operators
- Optimal utilization of the transmission grid
- Security analysis of network states leading to enhanced grid operations
- Continuous monitoring of the network stability, minimizing the risk of widespread blackout

Managing Power Generation is all about optimizing power generation and meeting contractual transactions. Network Manager SCADA/GMS performs real-time control of dispersed generation resources, thermal, hydro, etc., while minimizing reserve margins. The system can be integrated with functional modules for wholesale trading and minimization of financial risks in deregulated markets.

User benefits of Network Manager SCADA/GMS:

- Optimal use of generation resources, subject to environmental constraints
- Generation control with increased efficiency
- Minimizations of generation reserves and emissions
- Support for multiple markets and control areas across multiple time zones

Managing Distribution is the challenge of delivering power to all end-users as well as acting on network disturbances. Network Manager SCADA/DMS facilitates the distribution operation workflow and improves customer service by providing information about equipment maintenance and outages. It interfaces with ERP, GIS and AMR systems.

User benefits of Network Manager SCADA/DMS:

- Network operations and analysis in real-time
- Optimal network utilization under various load conditions
- Best-in-class outage and crew management including trouble call interface
- Switch Order Management for smooth scheduling

Electricity Markets are created to facilitate competition and trade of electricity between market participants while ensuring transparency and fairness. Network Manager MMS is a state-of-the-art Market Operations System to provide complete software solutions for managing Electricity Markets.

User benefits of Network Manager MMS:

- Advanced applications to clear the market accounting for power system constraints
- Supports markets for day ahead, hour ahead, real time, balancing, ancillary services etc.
- Field experience with various partners around the world

Service

Our Service offering includes a 24/7 Help Desk, an active User Group organization, an extensive training program, Patch Management, and multi-year maintenance agreements including software and hardware upgrades.

Customers that choose ABB as a partner benefit from professional project management, continuous support and in-depth understanding of power systems.

ABB's long-term commitment to control center IT solutions and energy know-how enhances our Customers' competitive strength and profitability, allowing the Network Manager investment to pay dividends well into the future.

Contact us

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