

Network Manager™ DMS

Software For Electric Distribution Operations
Part of the Network Management product line



Network Manager DMS is an operations management system designed to help electric distribution companies reduce operating and maintenance costs while enhancing customer service. It combines operational data, real-time communications and advanced applications with a dispatch management interface to optimize performance through data sharing. Using Network Manager DMS, utilities can provide valuable, time-critical information across the organization.

Network Manager DMS acts as a real-time information broker for all operational activities, including trouble reports, field crew actions and changes to the distribution network. By facilitating the flow of this important information, Network Manager DMS makes it easy to support management, operations, and maintenance and construction teams as well as end customers. Greater efficiency, lower costs, and higher customer satisfaction—these make up the core of the Network Manager DMS value proposition.

Network Manager DMS Features Display and Analysis of Distribution Networks

- Dynamic distribution network modeling environment

- View and analyze the “as-built” and “as operated” network conditions
- Operate from geographic and schematic displays, or substation one-lines
 - Model temporary network changes such as linecuts, jumpers and phase swapping
 - Model distributed generation units
- User access to key on-line information
 - Equipment attributes
 - Operational status – real-time and field reports
 - Crew attributes, status, assignments and location
 - Customer account information
 - Scheduled and un-scheduled switch orders
 - Measured and calculated power voltage and currents
- Study of feeder configurations
 - Assess overloaded and under voltage line conditions with online load flow analysis
 - Determine “best” configuration for partial restoration activities
 - Evaluate or create contingency plan prior to execution
 - Determine best capacitor bank switching scenario for current load conditions
- Support for diverse and dispersed work force
 - On-the-fly re-allocation of dispatch responsibilities between centers and personnel
 - Log-in based on user roles and individual user capabilities
 - Low-bandwidth graphical user interface and web-based user work environments



- Archiving of all system operations
 - Operator and crew activities
- Outages, trouble reports and work orders
- Device operations
- Outage causes and equipment reports

Network Manager DMS Results

Proven Benefits Through Increased Performance

- Consolidates information and analysis for improved operator decision support
 - Combines customer, network and crew information in one environment
 - Associates tags, crew location and more to improve safety for field crews and the public
 - Provides information specific to user responsibilities
- Reduces operating and capital expenditures
 - Lower system losses
 - Faster, more efficient dispatch of repair crews
 - More effective maintenance scheduling
- Improves outage management
 - Faster problem identification
 - Superior identification of fault and outage locations
 - More efficient dispatch of crews
 - Improved partial restorations
 - Enhanced awareness of crew status and estimated time-of-restoration
 - Accurate reliability indices
- Enhances customer services
 - Generate real-time reports on individual customer outage status
 - Provide customers with estimated time-of-restoration
 - View outage history by customer
 - Notify customers of planned outages

Network Manager DMS Attributes

Flexible System Deployment

- Standard Application Programming Interfaces (APIs) for CIS, call center, AM/FM, GIS, voice response, work management, automated metering, SCADA/EMS, GPS/AVL and mobile dispatch applications
- Open relational database management system (RDBMS) for ease of integration and custom report generation
- Microsoft Windows-based full graphic and web-browser user interfaces
- UNIX, LINUX or Microsoft Windows-based database server
- Compatibility with LINUX as well as IBM and HP UNIX operating systems
- Support for high availability and disaster recovery system configurations

Network Manager DMS Implementation

Implement and Integrate Quickly

- Minimum data required to implement
- Designed for either loose or tight integration with the utility's existing IT operations
- Fully compatible with ABB's netCADOPS intranet/Internet Network Manager DMS support module
- Fully compatible with ABB's Network Planner distribution planning and engineering product line
- Uses standard Oracle RDBMS
- Uses Microsoft Windows-based operating system as the platform for the user interfaces
- Application server runs on industry standard UNIX and LINUX operating systems

ABB Solves the Puzzle - Distribution Operations Management

Network Manager DMS is a key element of ABB's solution to meet the challenges of today's distribution engineering and operations management teams. ABB's experience with IT and electrical engineering projects around the world confirms the benefits of using Network Manager DMS to integrate the business processes managed by the control room operator. For more information, please inquire at: dis.marketing@us.abb.com.

ABB is an ISO 9001 registered organization.
Contact ABB today to learn more about solutions for the energy market.
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