ABB Ability™ Network Manager X
A single, unified view of the entire network

As the grid grows more complex, operators need a level of network visibility that crosses the traditional boundaries of transmission and distribution. Network Manager X has been designed to meet these new challenges and enable the operator to leverage all of their available assets to operate reliably and efficiently.

The Network Manager X difference:

• **A single, common user interface** for SCADA, EMS, DMS, OMS, DERMS and data engineering.

• **Advanced data engineering tools** ensure higher data quality with easier data migration and integration.

• **Advanced switching management** supports complex automatic switching for planned and unplanned events.

• **A full suite of network applications** including distribution state estimation, FLISR, DERMS and contingency analysis.

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Solution overview

SCADA
- High performance, availability and cyber security
- UI enhances situational awareness
- Intelligent alarm and event handling
- Improved Interoperability
- Integrated data historian

EMS
- State estimation
- (Predictive) load flow
- Contingency analysis
- Optimal power flow
- Short circuit analysis
- Operator training simulator
- Load forecasting

DMS
- Distribution state estimation
- Distribution load flow
- Volt/VAR optimisation
- Optimal feeder reconfiguration
- Fault location, isolation & system restoration (FLISR)
- Distribution load forecasting

OMS
- Trouble call management
- Outage prediction
- Storm management
- Crew and referral management
- Switching management

DERMS
- DER registration
- DER Active Power Management
- DER Volt/VAR optimisation
- DER forecasting

ANALYTICS
- Dashboards and reports
- Outage and reliability reporting
- KPIs and IEEE reliability indices