

Oracle Utilities Network Management System Switching Tool and Study Mode

For distribution grid operations, switching is a critical process. Not only can effective switching assist in eliminating faults, reducing outage durations, and relieving overloads, it's also an integral part of maintenance and network reconfiguration. Doing it correctly also protects crews from potentially deadly error. Oracle Utilities Network Management System provides comprehensive switching management, from planning and modelling through execution and analysis. Harnessing the solution's switching tool and study mode, grid operators can automate and improve grid reliability, process efficiency, and safety.

Smarter switching improves reliability, productivity and safety

Improve the coordination and accuracy of switching for maintenance, network reconfiguration, and outage restoration. A switching management tool allows operators to record actions electronically via interaction with the map in study mode for planned work or emergency real-time work.

Increase reliability

- Relieve overloads via automating optimal switching
- Understand switching impact using private study modes to examine scenarios concurrently
- Extend device lifecycle by suggesting ideal switching plans
- Mitigate intermittency by integrating distributed energy resources into switching plans

Improve crew productivity

- Streamline preplanning of large switching sequences in study environments and real-time models
- Boost crew performance via step-by-step instructions for opening, closing, and tagging devices
- Improve switching by enabling utilities to prepare plans prior to use and play them back in real time as they are being done

Ensure best practices for safety

- Ensure crews interact with equipment in the most safe and secure manner during unplanned outages
- Eliminate paper forms and finger tracing of the electrical system, significantly reducing switching errors and improving safety
- Capture best practices and catalog process for future use



Key features

- Private study mode
- Templates for common actions
- Planned & emergency switching
- Outage correction for reporting
- Training scenarios
- Concurrent scenario modeling
- Switch plan visualization
- Safety tagging
- Tagging lockout

Key benefits

- Reduce outages and grid performance issues via automation
- Identify and execute optimized switching process via modeling
- Ensure best practices are used for safety, reliability and productivity
- Easily incorporate distributed energy resources into switching process
- Use power flow analysis to assess planned switching steps and avoid negative impacts
- View data from any historian to improve contingency analysis and planning

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