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Oracle Utilities NMS Version 2.5 New Release Summary

Oracle Utilities Network Management System (NMS) Version 2.5 is the leading end-to-end distribution management platform with advanced optimization, outage and field management capabilities and a choice of built-in distribution SCADA functionality or integration to leading third-party SCADA solutions.

Release Overview

The NMS v2.5 release was driven by several product imperatives, including:

- Distribution SCADA functionality and tight integration with the OT Message Bus technology acquired through LiveData Utilities
- Creation of a new web-browser-based "thin client"
- Vastly improved UX with new underlying technology
- Very high availability and reliability at local and remote sites

NMS Platform Upgrades

Having acquired its former partner LiveData Utlities, Oracle has tightly integrated the Operational Technology Message Bus (OTMB) technology into the core NMS processing engine, resulting in a real-time integration platform that is even more secure, reliable, scalable and cost-efficient than before.

Oracle has also upgraded the NMS platform to meet the most demanding technical requirements, including high availability. Utilizing technologies such as Oracle Active Data Guard and Site Guard, NMS v2.5 now allows for faster routine patching for single server or clustered installations and for faster failover to a remote site.

New ADMS Automation and Optimization Functionality

New ADMS features and functions include:
- FLISR: Users can perform additional analysis if adjacent feeders do not have enough capacity to pick up the load on the faulted feeder. If FLISR cannot utilize an adjacent feeder to pick up load, it runs an optimization to see if dispatching DER, and/or changing voltage regulation and capacitor settings will relieve forecasted violations. If the optimization cannot find a solution to relieve all violations, then FLISR will run a multi-tiered analysis to determine if enough load can be transferred off the adjacent feeders to pick up the load

Give your grid operators the highest performing, superstorm-tested distribution management platform that scales and flexes with your changing needs

- "Single pane of glass" integration with even more third-party SCADA solutions
- Core distribution SCADA applications
- A new web browser-based "thin client"

LiveData
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on the faulted feeder. FLISR has also been enhanced to restore a substation bus when triggered by a loss of voltage at the bus.

- Volt/VAR: New real-time network optimization objectives have been added that can maximize distribution system VAR for transmission support and maximize average distribution system voltage.

- Automated Protection Setting Updates: Protection settings groups are automatically updated when a device's source changes. This functionality has been integrated into FLISR and both manual and suggested switching.

Streamlined Outage Restoration

NMS v2.5 buyers will see improved operator efficiency in performing common outage update and completion actions through right-click menu options. This enables an operator to easily assign or update a crew status, predict or confirm outage locations, update estimated restoration times (ERTs), add operational notes and restore an outage without needing to move to the network viewer or other windows.

Improved Field Capabilities with the Operations Mobile App (OMA)

The Operations Mobile Application (OMA) brings a core set of NMS functionality into the field, allowing crews to assess damage, update estimated restoration time, execute switching steps, capture cause and remedy, and close out outage restoration activities. NMS v2.5 enhances and extends OMA with a redesigned UX leveraging the Oracle JET technology, resulting in a more intuitive and efficient application. Tasks, switching orders, and safety documents are summarized and organized in separate tabs, with easy navigation to and from the network map.

A Better User Experience

With clean lines and contrast in the right places, NMS supports\ low-lit and daytime work environments. For more information, please visit the Oracle NMS webpage .

Key usability improvements in the NMS v2.5 release include:

- Enhanced automation and optimization including multi-tiered FLISR analysis, protection scheme automation and Volt/VAR optimization

- High availability during patching and switchover

- Improved and more intuitive user experience

- Upgraded functionality for Oracle Mobile Application (OMA), which provides grid visualization for field crews

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