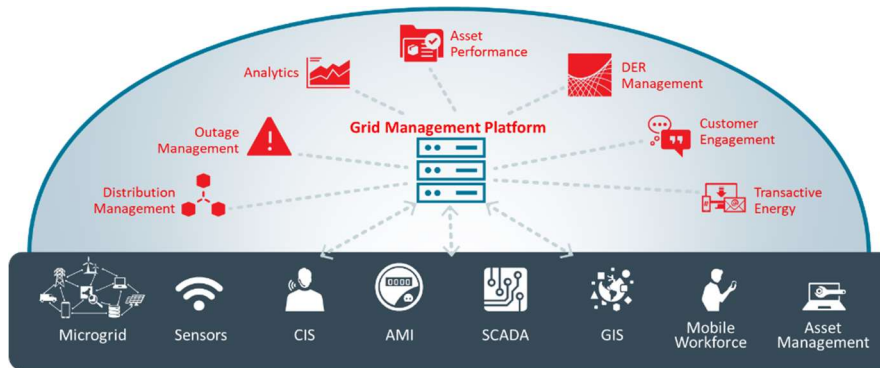


ADMS & DERMS with Oracle Utilities Network Management System

Consumer adoption of distributed energy resources (DERs) is leading utilities to rethink their distribution grids. For utilities seeing a high degree of DER penetration, a distributed energy resource management system (DERMS) can be a valuable tool for mitigating DER-related operational issues, optimizing grid performance and creating new value streams. Oracle Utilities now offers a robust DERMS solution to utilities that choose the Oracle Utilities Network Management System (NMS) as their ADMS or OMS solution.

A Modern Approach to Distribution Grid Management

Traditionally, utilities focused on individual system enhancements – from distribution, outage, and asset management to customer response/engagement. While typically serving individual functions well, the opportunity evolve across all systems is here. Utilities executives today are in the mindset of not just optimizing operations, information and customer technologies, but merging them as cohesive value chain across the enterprise with a reliable, flexible and scalable architecture.

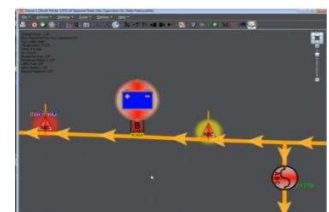


Oracle Utilities NMS leads modern distribution grid management within this new paradigm. Unifying essential ADMS functions with the rising need for enhanced visibility and management of DERs, NMS provides the platform based approach to extend visibility down to the customer, enhance reliability and efficiency through SCADA and IoT enabled equipment, and optimize power flows with automated, cost-driven decision-making from possibilities that include multi-tiered switching, energy storage, demand response programs and much more.



In the new, DER-driven utility landscape utilities use Oracle Utilities NMS as the distribution grid management platform to:

- Reduce disruption and safety issues due to renewable generation variability and intermittency
- Eliminate the need to bring additional, costly generation resources online
- Minimize customer minutes of interruption (CMI) via improved load profiles
- Improve resource planning to support this DER growth



Architected to Deliver Fast, Accurate Insights with Your Data

With more devices come massive volumes of data. The need for utilities to ingest, normalize, curate and analyze data from a variety of sources at unprecedented speeds is here. Deepening grid, asset and customer awareness to drive key outcomes requires effective data management. Oracle Utilities brings it all together – grid, asset and field service management in the new customer-centric world architected with the flexibility to accommodate a wide variety of DERs including energy storage.

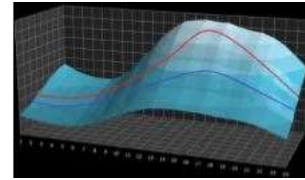
DERMS as a Critical Element of the Modern ADMS

Supported by a purpose-built, platform-based approach of the Oracle Utilities Network Management System (NMS), the Distributed Energy Resource Management (DERM) module as a standalone or integrated offering offers utilities the lowest risk, lowest cost and fastest time-to-value:

- Individual DER visibility in a real-time ADMS operating network model
- Forecast of granular loads and DER aggregated to transmission connection
- Active Network Management optimizes decision making to address specific situations with switching actions and/or DER dispatch
- Enhance demand-side management offerings with Bring Your Own Device (BYOD) and Behavioral Demand Response (BDR) programs
- Industry-proven scalability and reliability to handle DER growth
- Faster implementation and upgrade times

Standalone Deployment for Modular Approaches to DERMS

Oracle's DERMS solutions can also be deployed on a standalone basis for utilities who wish to keep their third party DMS but want DERMS capabilities today.



Key Features

- Generate 3-Dimensional Load and DER Output Profiles with real-time forecast information used in the power flow analysis
- Graph generated for each supply point per day type
- Considers DERs down to the customer location
- Apply and view in real-time or study mode

Enables Customer Programs and Engagement by:

- Creating rate structures for any level of program complexity and dynamically communicate to DER
- Directly connecting customers with the 3rd party energy services they value
- Reaching and communicating to customers when and how they prefer

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