

# **Oracle Utilities Distributed Grid Management**

Release Notes

Release 2.0.0.1

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# Release Notes

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These release notes include the following topics::

- **Preface**
- **Features in Oracle Utilities Distributed Grid Management**
  - **Release 2.0 Features**
  - **Release 2.0.0.1 Features**

## Preface

### Audience

This document is intended for anyone installing or using the Oracle Utilities Distributed Grid Management System.

### Related Documents

See the following Oracle documents for additional information:

- *Oracle Utilities Distributed Grid Management Quick Install Guide*
- *Oracle Utilities Distributed Grid Management Installation and Configuration Guide*
- *Oracle Utilities Distributed Grid Management User's Guide*

## Oracle Utilities Distributed Grid Management Features

### Release 2.0 Features

This section describes the features in Oracle Utilities Distributed Grid Management System Version 2.0.

#### Oracle Utilities Distributed Grid Management Manager Features

##### Load Forecasting

- The Manager has a Load Forecasting tool that uses historical load profiles to predict the feeder load for the next 48 hours.

##### Switching Reconfiguration

- The Manager incorporates a Switching Reconfiguration tool that runs periodically and suggests switching recommendations for minimizing losses within the microgrid network.

##### Volt-VAr Optimization

- The Manager incorporates a Volt-VAr Optimization tool that runs periodically and suggests recommendations for transformer tap and capacitor bank positions with an objective to minimize the losses within the microgrid network.

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### **System Alerts**

- The Manager continuously monitors the system status and generates alerts in cases of limit violations and impending alarms.

### **Generation Control**

- The Manager provides a tool through which the user can schedule generator setpointsCommand Processing.
- The Manager provides a tool through which the user can schedule open/close commands for breakers and switches.

## **Oracle Utilities Distributed Grid Management Viewer**

### **GeoSpatial Map**

- The Viewer provides a geospatial representation of the microgrid network and the associated network devices. The Viewer also displays device summary and device detail information.

### **Scheduling Information**

- The Viewer presents options, dialog boxes and windows to schedule control for the network devices. It also displays the status of all the scheduled actions within the microgrid network.

### **Graphs**

- The Viewer displays device information such as current and future loading levels, generation schedule scenarios and device specific information through graphs and trends.

## **Release 2.0.0.1 Features**

This section describes the features in Oracle Utilities Distributed Grid Management System Release 2.0.0.1

### **The Manager**

#### **Generation Scheduling**

- The Manager has a scheduling engine that looks at all the generation resources available within the microgrid and schedules them on an hourly basis based on load demand, operating parameters, and resource availability.

### **Oracle Utilities Network Management System to Oracle Utilities Distributed Grid Management Interface**

- The *Oracle Utilities Network Management System to Oracle Utilities Distributed Grid Management* interface is developed to gather real time measurement and status data from SCADA system into Oracle Utilities Distributed Grid Management system via Network Management System.

### **Oracle Utilities Distributed Grid Management to Oracle Utilities Network Management System Interface**

- The *Oracle Utilities Distributed Grid Management to Oracle Utilities Network Management System* interface helps generate switch sheets based on Oracle Utilities Distributed Grid Management recommended control actions.

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## **Oracle Utilities Distributed Grid Management to Generator Interface**

- The Oracle Utilities Distributed Grid Management to Generator interface helps Oracle Utilities Distributed Grid Management communicate with field generators to receive status and measurement values. This interface also enables Oracle Utilities Distributed Grid Management to send control commands and generator setpoints based on Oracle Utilities Distributed Grid Management recommendations.

## **Oracle Utilities Distributed Grid Management Viewer**

The following graphical user interface (GUI) improvements have been made in this release.

- Improved Map Control with Zooming and Panning
- Improved tool tip information about devices
- Option to change System Mode (Manual versus Automatic)
- Improved GUI to display power flow results
- Voltage Limits for Optimization on the GUI
- New tab showing Voltage Optimization results
- Improved GUI for Generation Scheduling Options & Output

