

Oracle Utilities Smart Grid Gateway Integration for Outage Operations

Release Notes

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Oracle Utilities Smart Grid Gateway Integration for Outage Operations, Release 12.1 Release Notes

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Preface

Welcome to the Oracle Utilities Smart Grid Gateway Integration for Outage Operations Release Notes.

The preface includes the following:

- [Audience](#)
- [Documentation and Resources](#)
- [Documentation Accessibility](#)
- [Conventions](#)
- [Abbreviations](#)

Audience

This document is intended for anyone implementing the Oracle Utilities Smart Grid Gateway Integration for Outage Operations.

Documentation and Resources

For more information regarding this integration, foundation technology and the edge applications, refer to the following documents:

Product Documentation

Topic	Description
Oracle Utilities Smart Grid Gateway Integration for Outage Operations documentation	
Oracle Utilities Network Management System documentation	Refer to the Oracle Utilities applications documentation page: http://docs.oracle.com/cd/E72219_01/documentation.html
Oracle Utilities Smart Grid Gateway documentation	

Additional Documentation

Resource	Location
SOA Suite 12c documentation	Refer to the SOA documentation at: http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html
Oracle Support	Visit My Oracle Support at https://support.oracle.com regularly to stay informed about updates and patches. Access the support site for the Edge Application Certification Matrix for Oracle Utilities Products (Doc ID 1454143.1) or refer to the Oracle Utilities Integrations page at http://my.oracle.com/site/tugbu/productsindustry/productinfo/utilities/integration/index.htm
Oracle University for training opportunities	http://education.oracle.com/
Web Services Security	For more information about Web services security using Oracle Fusion Middleware 12c refer to https://docs.oracle.com/middleware/12211/cross/webservicetasks.htm .
Oracle Fusion Middleware 12c documentation	Refer to the Oracle applications documentation page: http://docs.oracle.com/en/middleware/

Resource	Location
Instructions on installing this integration on non-Windows/ Linux platforms	Refer to Oracle Support Knowledge Article ID 1349320.1.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers have access to electronic support for the hearing impaired. Visit: <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs>

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Abbreviations

The following table lists the commonly used abbreviations used in this document.

Abbreviation	Expanded Form
AIA	Application Integration Architecture
BPEL	Business Process Execution Language
DVM	Domain Value Map
EBF	Enterprise Business Flow
EM	Enterprise Manager
MDS	Metadata Store
NMS	Oracle Utilities Network Management System

Abbreviation	Expanded Form
SGG	Oracle Utilities Smart Grid Gateway
SOA	Service Oriented Architecture

Release Notes

This release notes includes the following:

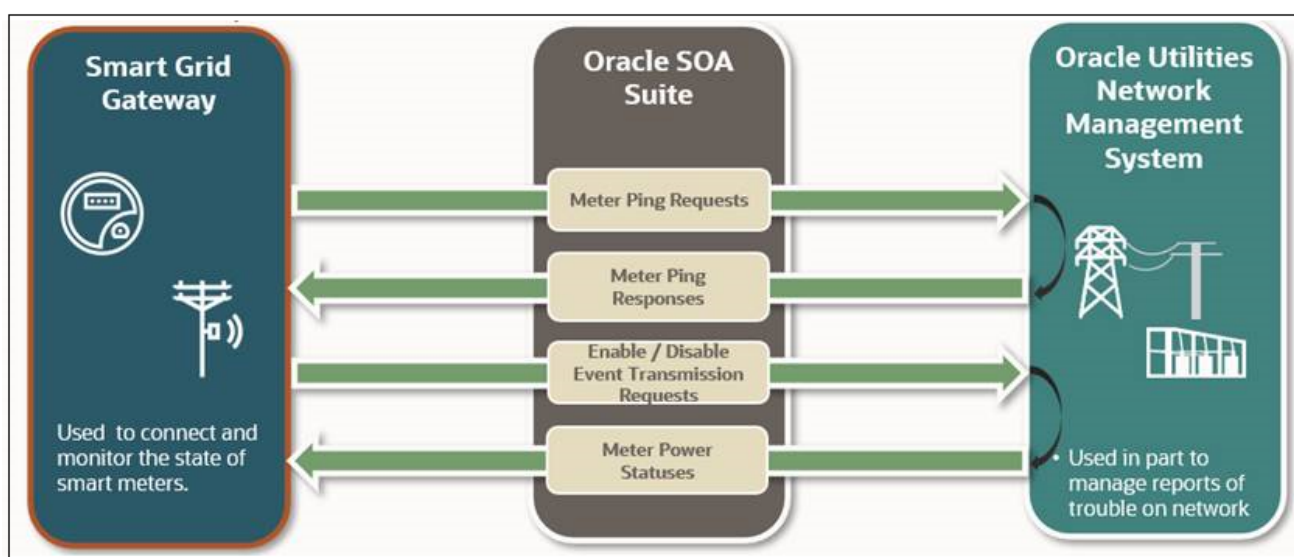
- [Integration Overview](#)
- [Supported Application Versions](#)
- [About Oracle Utilities Network Management](#)
- [About Oracle Utilities Smart Grid Gateway](#)
- [Known Issues](#)

Integration Overview

The integration between Oracle Utilities Network Management System (NMS) and Oracle Utilities Smart Grid Gateway (SGG) provides power outage and restoration information along with some filtering in support of the Outage Management System (OMS) capability of Oracle Utilities Network Management System. It assists in outage detection, outage verification, and restoration verification.

The integration provides meter status information to Oracle Utilities Network Management System. It supports “meter pings” (sending a request to the AMI head-end to request a power-on status from the meter). It also supports “turning off” the message flows from Oracle Utilities Smart Grid Gateway to Oracle Utilities Network Management System and vice versa for a list of one or more meters, which handles cases of ignoring bad meters that provide false statuses, or meters that are being put into a test mode.

The following diagram shows the business processes that are supported in this integration product:



The following list summarizes the functionality included in the integration:

- **Meter Ping Requests:** The integration provides ability to send a list of meter IDs from Oracle Utilities Network Management System to Oracle Utilities Smart Grid Gateway to have the meters in the “pinged” state to determine the current power status (on/off).
- **Batch Ping Response:** The integration supports the ability to send the current meter power status for the list of the meter IDs sent by Oracle Utilities Network Management System. The system sends a bulk response once everything is back, or sends what is available at a certain point in time, and sends subsequent bulk responses when more responses become available.

Note: The Meter Ping Requests and Batch Ping Response functionality of the integration are supported for only those Smart Grid Gateway Adapters that support the Device Status Check/Ping command.

- **Batch Enable/Disable Request:** The integration provides the ability for the Oracle Utilities Network Management System users to select a list of one or more meter IDs to start or stop ignoring meter statuses due to problems with

false statuses, meter “chattering”, needing to conduct tests on meter, etc. The list is sent to Oracle Utilities Smart Grid Gateway, and results in Oracle Utilities Smart Grid Gateway either with no longer sending statuses for those meters (disabled), or with resuming sending of statuses (enabled).

- **Batch Unsuppress/Suppress Request:** The integration provides ability to Oracle Utilities Network Management System to receive a list of meter IDs that have been disabled or enabled from Oracle Utilities Smart Grid Gateway via the Oracle Utilities Smart Grid Gateway user interface. Oracle Utilities Network Management System takes this list into account for outage verification and restoration verification.

Note: The terminologies used in Oracle Utilities Network Management System and Oracle Utilities Smart Grid Gateway descriptions are different. On Oracle Utilities Network Management System, Enable/Disable Meter activities are used. On Oracle Utilities Smart Grid Gateway, it is referred as Unsuppress/Suppress Device.

- **Processing of Meter Statuses:** The integration supports processing of meter power statuses (“last gasp” power off messages and “restoration” power-up messages) in Oracle Utilities Smart Grid Gateway for outage detection, outage verification, and restoration verification.

Note: The Device Power Status Update is also referred as the Device Event Transmission/Notification.

Supported Application Versions

All the following participating applications must be installed, set up, and working properly:

- Oracle Utilities Network Management System
- Oracle Utilities Smart Grid Gateway

Refer to the *Certification Matrix for Oracle Utilities Products* (Document ID 1454143.1) on My Oracle Support for current/supported application version details.

About Oracle Utilities Network Management

Oracle Utilities Network Management System processes trouble calls from the customers and analyzes those to determine the probable outage locations. It can generate the Estimated Restoration Times (ERTs) that can then be provided back to the customers. Also, it keeps a history of all of the customer calls that were entered in the system, as well as a history of all events that were known to affect a customer even if the customer did not call in.

In addition to responding to unplanned outages and non-outage problems, Oracle Utilities Network Management System helps a utility plan maintenance work or new construction that may impact existing customers. When the detailed switching plans are generated in Oracle Utilities Network Management System, information is provided to the customers about planned outages that impact them.

About Oracle Utilities Smart Grid Gateway

Oracle Utilities Smart Grid Gateway standardizes communications and orchestrates long-running business processes that commission, connect, and monitor the state of smart meters. It also standardizes measurement data and meter events for devices associated with different head-end systems/metering systems. Both on-premises and cloud installations are supported.

Known Issues

There are no known issues at the time of the release of this integration.