

# **Oracle Utilities Integration for Device Operations**

Release Notes

Release 12.1

**E36211-02**

June 2017 (Updated)

Oracle Utilities Integration for Device Operations, Release 12.1 Release Notes

Copyright ©2012, 2017 Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

---

---

# Contents

## Release Notes

<b>Preface</b> .....	<b>i</b>
Documentation and Resources .....	i
Documentation Accessibility .....	iii
Conventions.....	iii
Abbreviations .....	iii
<b>Release Notes</b> .....	<b>1</b>
Integration Process.....	2
Upgrading Technology to Oracle SOA Suite 12c.....	2

---

---

# Preface

This document is intended for anyone implementing the Oracle Utilities Integration for Device 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
<b>Integration documentation:</b>	
Oracle Utilities Integration for Device Operations Release Notes	
Oracle Utilities Integration for Device Operations Implementation Guide	
Oracle Utilities Integration for Device Operations Installation Guide	Refer to the Oracle Utilities applications documentation page: <a href="http://docs.oracle.com/cd/E72219_01/documentation.html">http://docs.oracle.com/cd/E72219_01/documentation.html</a>
<b>Edge application documentation:</b>	
Oracle Utilities Operational Device Management	
Oracle Utilities Meter Data Management	

---

**Additional Documentation**


---

Resource	Location
SOA Suite 12c documentation	Refer to the SOA documentation at: <a href="http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html">http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html</a>
Oracle Support	Visit My Oracle Support at <a href="https://support.oracle.com">https://support.oracle.com</a> 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 <a href="http://my.oracle.com/site/tugbu/productsindustry/productinfo/utilities/integration/index.htm">http://my.oracle.com/site/tugbu/productsindustry/productinfo/utilities/integration/index.htm</a>
Oracle Technology Network (OTN) Latest versions of documents	<a href="http://www.oracle.com/technetwork/index.html">http://www.oracle.com/technetwork/index.html</a>
Oracle University for training opportunities	<a href="http://education.oracle.com/">http://education.oracle.com/</a>
Web Services Security	For more information about Web services security using Oracle Fusion Middleware 12c refer to <a href="https://docs.oracle.com/middleware/12211/cross/webservicetasks.htm">https://docs.oracle.com/middleware/12211/cross/webservicetasks.htm</a> .
Oracle Fusion Middleware 12c documentation	Refer to the Oracle applications documentation page: <a href="http://docs.oracle.com/en/middleware/">http://docs.oracle.com/en/middleware/</a>
Oracle Fusion Middleware “What's New In Oracle WebLogic Server”  Section: Standards Support, Supported Configurations and WebLogic Server Compatibility, Database Interoperability	<a href="http://docs.oracle.com/middleware/1221/wls/NOTES/toc.htm">http://docs.oracle.com/middleware/1221/wls/NOTES/toc.htm</a>
For additional information on the type of database to use.	
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
<b>boldface</b>	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

This document includes the following abbreviations:

- ODM - Oracle Utilities Operational Device Management
- MDM - Oracle Utilities Meter Data Management
- DDL - Data Definition Language
- MDS - Metadata Services
- SOA - Service Oriented Architecture
- DVM - Domain Value Map
- EBF - Enterprise Business Flow
- EM - Enterprise Manager

---

---

# Release Notes

This section provides an overview of Oracle Utilities Integration for Device Operations, Release 12.1.

This productized integration represents significant business value for Utilities that need to manage their Device Operations process between Operational Device Management system with Meter Data Management and AMI systems.

Many Utilities choose Oracle Utilities Operational Device Management for inventories of digital assets and related electronic operations, security, and compliance, in order to undertake their Smart Grid initiatives. Many also choose Oracle Utilities Meter Data Management and Oracle Utilities Smart Grid Gateway to support the communications with smart devices, as well as loading, validating, editing, and estimating of meter usage and processing of event data.

This prepackaged integration between these leading applications ensures seamless data synchronization. Key businesses processes that are automated by this integration include synchronization of data between Oracle Utilities Operational Device Management and Oracle Utilities Meter Data Management and also to deploy, maintain, govern, operate, collect and process data from their automated infrastructure.

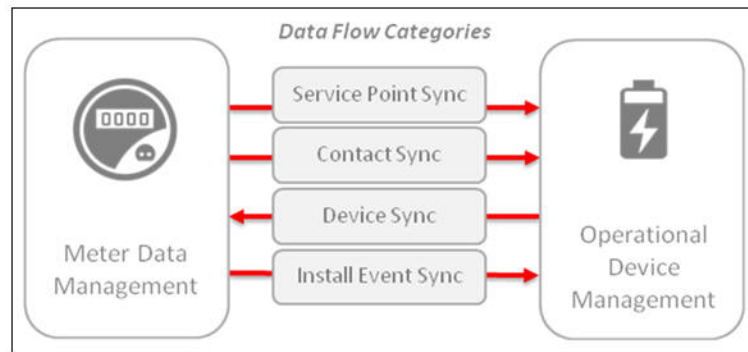
By leveraging this integration, project implementation costs, duration, and risk can be lowered, reducing the need to define requirements, construct designs, and then build and test custom code. Further, productized integration ensures ongoing vendor responsibility for the update of integration, resulting in lower total cost of ownership.

Using Oracle Application Integration Architecture, the product provides what Utilities need to implement sustainable, Services Oriented Architecture-based integrations between the participating applications. By utilizing best practices and best-in-class Oracle Fusion Middleware, Oracle delivers an adaptable end-to-end solution that improves enterprise control and visibility of outage information.

This document describes the functionality in the 12.1 release of the Oracle Utilities Integration for Device Operations. Existing functionality from the prior release is not described. For more information on product functionality, see the *Oracle Utilities Integration for Device Operations Implementation Guide*.

## Integration Process

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



**Oracle Utilities Integration for Device Operations**

This is an AIA Direct Integration using Oracle SOA Suite. It does not require AIA Foundation Pack to be installed. The integration product includes Restricted Use Licenses for the required Middleware components.

Oracle BPEL Process Manager, an Oracle Fusion Middleware product, is used to coordinate the data flow and data mapping of the integration. Oracle BPEL Process Manager provides a comprehensive solution for creating, deploying, and managing cross-application business processes with both automated and manual work flow steps.

This is a bi-directional integration. Oracle Utilities Meter Data Management is updated with Device information from Oracle Utilities Operational Device Management where as Meter Data Management application is updated with service point installation locations and customer contacts associated with the meter service point locations.

## Upgrading Technology to Oracle SOA Suite 12c

A key new feature of this integration is a technology upgrade from Oracle SOA Suite 11g to Oracle SOA Suite 12c to avail the new features that 12c has to offer.

Oracle SOA Suite is the technology use for the Oracle Utilities Integration for Device Operations 12.1 Media Pack. SOA Suite is a member of the Oracle Fusion Middleware family of products, offering a one-stop solution for building, deploying, and managing Services-Oriented Architectures. Oracle SOA Suite's components are hot-plugable and can run in a variety of environments, allowing organizations to extend and evolve their existing environments instead of replacing them.

For more detailed information about the entire range of Oracle Fusion Middleware 12c and Oracle SOA Suite 12c functionality, see the [Documentation and Resources](#) section in this document.