

# **Oracle® Transportation Management**

Technical Architecture Guide

Release 6.3

Part No. E38420-05

January 2014



Copyright © 2004, 2014, 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, 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 on 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. 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.

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 through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

## Contents

<b>CONTENTS.....</b>	<b>IV</b>
<b>SEND US YOUR COMMENTS .....</b>	<b>V</b>
<b>PREFACE .....</b>	<b>VI</b>
<b>CHANGE HISTORY .....</b>	<b>VI</b>
<b>1. HARDWARE (FOR APPLICATION, WEB, AND REPORTS TIERS) .....</b>	<b>1-1</b>
<b>VIRTUALIZATION SOFTWARE .....</b>	<b>1-1</b>
<b>2. SUPPORTING SOFTWARE .....</b>	<b>2-1</b>
<b>3. LOCALIZATION.....</b>	<b>3-1</b>
<b>4. ORACLE COMPLEMENTARY PRODUCTS .....</b>	<b>4-1</b>
<b>5. VENDOR COMPLEMENTARY PRODUCTS.....</b>	<b>5-1</b>
<b>6. INTEGRATION TO ORACLE APPLICATIONS .....</b>	<b>6-1</b>

## Send Us Your Comments

Oracle® Transportation Management Technical Architecture Guide, Release 6.3

Part No. E38420-05

Oracle welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this manual?

If you find any errors or have any other suggestions for improvement, please indicate the title and part number of the documentation and the chapter, section, and page number (if available). You can send comments to us in the following ways:

- Electronic mail: [otm-doc\\_us@oracle.com](mailto:otm-doc_us@oracle.com)

If you would like a reply, please give your name, address, telephone number, and electronic mail address (optional).

If you have problems with the software, contact Support at <https://support.oracle.com> or find the Support phone number for your region at <http://www.oracle.com/support/contact.html>.

## Preface

This guide contains hardware and software requirements, as well as complimentary products for Oracle Transportation Management.

### Change History

Date	Document Revision	Summary of Changes
12/2012	-01	Initial release.
1/2013	-02	Adjusted translation basis and delivery release numbers.
3/2013	-03	Updated FTI (Business Intelligence Server) to use Oracle Business Intelligence Suite Enterprise Edition Plus 11gR1 (11.1.1.6.8).  Updated ETL Server for FTI to use Oracle Data Integrator (ODI) 11gR1 (11.1.1.6.4).  Red Hat 64-bit Enterprise Linux 5.x is supported.  Oracle 64-bit Oracle Enterprise Linux 5.x, 6.x is supported.  Firefox 17esr is supported.
8/2013	-04	Updated Oracle Complementary Products.  Updated Integration to Oracle Applications.  Fixed the Release From Windows 2008 from R3 to R2  Added PCMiller Web Services
11/2013	-05	Added a new certification for OBIEE/ODI  Changed versions for OBIEE and PC Miler WorldWide and Rail and added two new complimentary Oracle products.

## 1. Hardware (for Application, Web, and Reports Tiers)

Platform	Operating System	Comments
Intel x86/AMD	Windows 2008 64-bit Standard Edition R2/Enterprise Edition R2	
Intel x86/AMD	Oracle 64-bit Oracle Enterprise Linux 5.x, 6.x	
Intel x86/AMD	Red Hat 64-bit Enterprise Linux 5.x, 6.x	Supported
Itanium	Hewlett Packard 64-bit HP-UX 11i v3	
POWER5/POWER6	IBM 64-bit AIX 7.1	
SPARC/Intel x86	Sun 64-bit Solaris 10, 11	

## Virtualization Software

Platform	Version	Comments
Oracle VM	2.2.x	
Oracle VM Server for x86	3.1.x	
Microsoft Hyper-V	Windows 2012	

**Note:** Oracle Transportation Management is supported, but not certified on all other VM technologies. See My Oracle Support note [804223.1](#) for more information.





## 2. Supporting Software

<b>Tier</b>	<b>Product/Version</b>	<b>Product Website</b>	<b>Platforms certified with Oracle Transportation Management</b>	<b>Comments</b>
Application Server	WebLogic 11g Rel 1 (10.3.6) Standard Edition	Oracle <a href="http://www.oracle.com">http://www.oracle.com</a>	All specified on product website	WebLogic is not part of the Oracle Transportation Management install.
Database Server	11gR2 Enterprise Edition  11.2.0.3 – Certified  11.2.0.2 – Supported  11.2.0.1 – Supported	Oracle <a href="http://www.oracle.com">http://www.oracle.com</a>	All specified on product website	Oracle's Database Server is not part of the Oracle Transportation Management Install.  Real Application Clusters (RAC) supported  It is highly recommended to run OTM with the latest patch set (11.2.0.3).
Web Server	Oracle HTTP Server (OHS) 11g Rel 1	Oracle <a href="http://www.oracle.com">http://www.oracle.com</a>	All specified on product website	Oracle HTTP Server is not part of the Oracle Transportation Management Install.
Web Server	Tomcat 7.x	The Apache Software Foundation <a href="http://www.apache.org/">http://www.apache.org/</a>	All specified on product website	Oracle Transportation Management Install loads Tomcat.
Planning Optimizer	FICO Xpress Optimization Suite 7.3	FICO <a href="http://www.fico.com/en/Products/DMTools/Pages/FICO-Xpress-Optimization-Suite.aspx">http://www.fico.com/en/Products/DMTools/Pages/FICO-Xpress-Optimization-Suite.aspx</a>	All specified on product website	Oracle Transportation Management Install loads FICO Xpress Optimizer

<b>Tier</b>	<b>Product/Version</b>	<b>Product Website</b>	<b>Platforms certified with Oracle Transportation Management</b>	<b>Comments</b>
Reports (BI Publisher)	Oracle Business Intelligence Publisher  Stand-alone – 11gR2(11.1.1.6)  Embedded – 11gR1(10.1.3.4)	Oracle <a href="http://www.oracle.com">http://www.oracle.com</a>	All specified on product website	Oracle Transportation Management Install includes a restricted use license of BI Publisher. The restricted use license provides the ability to publish and/or view shipped BI Publisher reports. Layout changes are allowed. In addition, shipped or created reports can be modified to access data from an existing, non-customized Oracle Applications schema.
FTI (Business Intelligence Server)	Oracle Business Intelligence Suite Enterprise Edition Plus 11gR1 (11.1.1.7.1)	Oracle <a href="http://www.oracle.com">http://www.oracle.com</a>	All specified on product website	The BI Suite is not part of the Oracle Transportation Management Install.  Fusion Transportation Intelligence can only be run on a server certified to run Oracle Business Intelligence Suite Enterprise Edition.
ETL Server for FTI	Oracle Data Integrator (ODI) 11gR1 (11.1.1.7.0)	Oracle <a href="http://www.oracle.com">http://www.oracle.com</a>	All specified on product website	Oracle Data Integrator is the data extraction, transformation, and loading tool used by the OTM FTI solution.  ODI is not part of the Oracle Transportation Management Install.
Internet Browser	Internet Explorer (IE) Versions 8 & 9  Version 8.0.6001.18702CO & above	Microsoft <a href="http://www.microsoft.com">http://www.microsoft.com</a>	N/A	
Internet Browser	Firefox 17esr	Mozilla <a href="http://www.mozilla.org">http://www.mozilla.org</a>	N/A	
Internet Browser	Safari 5.1 (Desktop)	Apple <a href="http://www.apple.com">http://www.apple.com</a>	N/A	

<b>Tier</b>	<b>Product/Version</b>	<b>Product Website</b>	<b>Platforms certified with Oracle Transportation Management</b>	<b>Comments</b>
Internet Browser	Cortona VRML Client Version 7.0 and later.	Parallel Graphics <a href="http://www.parallelgraphics.com/products/cortona/">http://www.parallelgraphics.com/products/cortona/</a>	N/A	Cortona is not part of the Oracle Transportation Management Install.
Internet Browser	Adobe SVG 3.0.3	Adobe <a href="http://www.adobe.com/svg/viewer/install/">http://www.adobe.com/svg/viewer/install/</a>	N/A	Adobe SVG Viewer is not part of the Oracle Transportation Management install. It is required in order to view Location Capacity graphs.
Mobile Internet Browser	Apple Safari 5.1	Apple <a href="http://www.apple.com">http://www.apple.com</a>		Only OTM Mobile Applications are supported on Mobile devices.
Mobile Internet Browser	Android 4.2	Android <a href="http://www.android.com">http://www.android.com</a>		Only OTM Mobile Applications are supported on Mobile devices.

**Note:** All supporting software is subject to patch level changes.



### 3. Localization

Language	User Interface	Fax & Email	Reports	Online Help	Error Messages	Documentation	Training Materials	Release Schedule
English	Y	Y	Y	Y	Y	Y	Y	6.3 (except Training) 6.3+60d (Training materials)
Chinese (Simplified)	Y	Y	Y	N	Y	N	N	6.3.2 delivery 6.3.1 translation basis
Chinese (Traditional)	Y	Y	Y	N	Y	N	N	6.3.2 delivery 6.3.1 translation basis
French (Canadian)	Y	Y	Y	N	Y	N	N	6.3.2 delivery 6.3.1 translation basis
French (European)	Y	Y	Y	N	Y	N	N	6.3.2 delivery 6.3.1 translation basis
German	Y	Y	Y	N	Y	N	N	6.3.2 delivery 6.3.1 translation basis
Italian	Y	Y	Y	N	Y	N	N	6.3.2 delivery 6.3.1 translation basis
Japanese	Y	Y	Y	N	Y	Some	N	6.3.2 delivery 6.3.1 translation basis
Korean	Y	Y	Y	N	Y	N	N	6.3.2 delivery 6.3.1 translation basis

Language	User Interface	Fax & Email	Reports	Online Help	Error Messages	Documentation	Training Materials	Release Schedule
Portuguese (Brazilian)	Y	Y	Y	N	Y	N	N	6.3.2 delivery 6.3.1 translation basis
Russian	Y	Y	Y	N	Y	N	N	6.3.2 delivery 6.3.1 translation basis
Spanish (European)	Y	Y	Y	N	Y	N	N	6.3.2 delivery 6.3.1 translation basis
Spanish (Latin America)	Y	Y	Y	N	Y	N	N	6.3.2 delivery 6.3.1 translation basis
Turkish	Y	Y	Y	N	Y	N	N	6.3.2 delivery 6.3.1 translation basis

**Note:** The release schedule refers to the translation of label additions/changes made with 6.3.

## 4. Oracle Complementary Products

Product Name/ Category	Versions Certified with OTM	Platforms Certified with Oracle Transportation Management	Summary Description	Product Website
BPEL Process Manager	Version 10.1.2.x  Version 10.1.3.x	All specified on website	Infrastructure to create/deploy/ manage BPEL processes.  <b>Note:</b> see Section 6 for integration to Oracle Applications	<a href="http://www.oracle.com/appserver/bpel/home.html">http://www.oracle.com/appserver/bpel/home.html</a>
Map Viewer	Version 11.1.1.7	All specified on website	View geo-maps (Map Related Shipments action)	<a href="http://www.oracle.com/technology/products/mapviewer/index.html">http://www.oracle.com/technology/products/mapviewer/index.html</a>
Oracle Identity and Access Management Suite Plus	Version 11g (11.1.1.5)	All specified on website	Provides authentication, single sign-on, and identity management	<a href="http://www.oracle.com/us/products/middleware/identity-management/oiam/index.html">http://www.oracle.com/us/products/middleware/identity-management/oiam/index.html</a>
Oracle Webcenter content (WCC)	11gR1 (11.1.1)	All specified on website	Provides capabilities for storing OTM documents external to the OTM database schema.	<a href="https://www.oracle.com/us/products/middleware/webcenter/content/overview/index.html">https://www.oracle.com/us/products/middleware/webcenter/content/overview/index.html</a>
SOA Suite	Version 11g	All specified on website	See below for SOA Suite Product BPEL Process Manager	<a href="http://www.oracle.com/technologies/soa/soa-suite.html">http://www.oracle.com/technologies/soa/soa-suite.html</a>
Spatial		All specified on website	View geo-maps (Map Related Shipments action)  Distance Lookup/standard  Address validation supported in Oracle Transportation Management	<a href="http://www.oracle.com/technology/products/spatial/index.html">http://www.oracle.com/technology/products/spatial/index.html</a>
User Productivity Kit		All specified on website	Content development	<a href="http://www.oracle.com/applications/tutorial/user-productivity-kit.html">http://www.oracle.com/applications/tutorial/user-productivity-kit.html</a>

**Note:** If you have any questions about a complementary product, please contact Oracle Product Marketing.





## 5. Vendor Complementary Products

Product Name/Category	Vendor	Versions Certified with Oracle Transportation Management	Summary Description	Vendor Website
<b>Acrobat Reader</b>	Adobe		View/print PDF documents	<a href="http://www.adobe.com/">http://www.adobe.com/</a>
<b>CarrierConnect</b>	SMC3	Version 3.0	LTL Transit Time	<a href="http://www.smc3.com/">http://www.smc3.com/</a>
<b>GeoCoder</b>	Latinforce		Zip Code Content	<a href="http://www.latinforce.net">www.latinforce.net</a>
<b>GeoAccess</b>	AND		Zip Code Content	<a href="http://www.and.com/">http://www.and.com/</a>
<b>GFI FaxMaker for Networks/SMTP</b>	GFI	SMTP 14.x	Email to fax gateway that sends out fax notifications	<a href="http://www.gfi.com/faxmaker/">http://www.gfi.com/faxmaker/</a>
<b>Kewill Flagship</b>	Kewill	Version 5.1	Parcel rating & transit time. For more information, see the Kewill Flagship Parcel Rate Requests Integration Guide.	<a href="http://www.kewill.com/">http://www.kewill.com/</a>
<b>LTL Data Module (typically CzarLite or Canadalite)</b>	SMC3	Provide vendor with data module format, effective date & tariff number; SMC will provide appropriate product & version.	LTL Tariffs	<a href="http://www.smc3.com/">http://www.smc3.com/</a>
<b>Microsoft Share Point</b>	Microsoft	2010	Provides capabilities for storing OTM documents external to the OTM database schema.	<a href="http://office.microsoft.com/en-us/sharepoint/">http://office.microsoft.com/en-us/sharepoint/</a>

Product Name/Category	Vendor	Versions Certified with Oracle Transportation Management	Summary Description	Vendor Website
<b>PC*Miler  WorldWide</b>  <b>PC*Miler Streets</b>  Requires : PC*Miler–TCP/IP & PC*Miler-Connect  Optional add-ons: Canadian Postal Codes PC*Miler Streets	ALK Technologies Inc.	Versions 25.1, 27.1	External Distance & Service Time Lookup/standard for North America and Worldwide including street level lookups and address validation  Address validation supported in Oracle Transportation Management  <i>Unless otherwise noted we support any combination of OTM and ALK supported versions.</i>	<a href="http://www.alk.com/">http://www.alk.com/</a>
<b>PC*Miler Rail</b>  Requires : PC*Miler–TCP/IP & PC*Miler-Connect	ALK Technologies Inc.	Versions 19, 20	External Distance & Service Time Lookup/standard  <i>Unless otherwise noted we support any combination of OTM and ALK supported versions.</i>	<a href="http://www.alk.com/">http://www.alk.com/</a>
<b>PC*Miler   Web Services</b>	ALK Technologies Inc.		External Distance & Service Time Lookup/standard	<a href="http://www.alk.com/">http://www.alk.com/</a>
<b>Pro-zipcode base product with latitude &amp; longitude add-on</b>  <b>Canadian &amp; Mexican postal codes with latitudes &amp; longitude add-on</b>	GreatData		Zip Code Content	<a href="http://www.emory.com/progress/index.htm">http://www.emory.com/progress/index.htm</a>
<b>RateWare XL</b>	SMC3		LTL	<a href="http://www.smc3.com/">http://www.smc3.com/</a>
<b>RateWare Server</b>	SMC3	Version 4.18	LTL Tariffs	<a href="http://www.smc3.com/">http://www.smc3.com/</a>

Product Name/Category	Vendor	Versions Certified with Oracle Transportation Management	Summary Description	Vendor Website
Unix Resident MileMaker	Rand McNally	Guide 19	External Distance Lookup/standard Address validation supported in Oracle Transportation Management	<a href="http://trucking.randmcnally.com">http://trucking.randmcnally.com</a>

**Note:** If you have any questions about a complementary product, please contact Oracle Product Marketing. You can also contact each vendor for pricing information.



## 6. Integration to Oracle Applications

Oracle Application	Version	Integration Software	Status	Comments
Accounts Payable (AP) <sup>1</sup>	R12.1.x	BPEL 10.1.3.4 / 10.1.3.5	Certification Target TBD	<a href="https://support.oracle.com/epmos/faces/DocumentDisplay?id=1546441.1">https://support.oracle.com/epmos/faces/DocumentDisplay?id=1546441.1</a>
Accounts Payable (AP) <sup>2</sup>	R11.5.10 CU2	BPEL 10.1.3.4 / 10.1.3.5	Certification Target TBD	<a href="https://support.oracle.com/epmos/faces/DocumentDisplay?id=1546441.1">https://support.oracle.com/epmos/faces/DocumentDisplay?id=1546441.1</a>
Advanced Planning (APS) <sup>1</sup>	R12.1.x	BPEL 11g	Certification Target TBD	
E-Business Suite International Trade Management (ITM) Adaptor	R12.1.x	None	Certification Target TBD	Oracle E-Business Suite Integration Guide for GTM is available on <a href="http://docs.oracle.com/cd/E38437_01/otm/acrobat/ebs_gtm_integration_guide.pdf">http://docs.oracle.com/cd/E38437_01/otm/acrobat/ebs_gtm_integration_guide.pdf</a>
E-Business Suite Order Management (OM) <sup>1</sup>	R12.1.x	BPEL 11g	Certification Target TBD	
E-Business Suite Order Management (OM) <sup>2</sup>	R11.5.10 CU2	BPEL 10.1.3.4 / 10.1.3.5	Certification Target TBD	
Enterprise 1 Sales Order Management, Purchase Order Management, Accounts Payable and Receivable	9.0	None	Certification Target TBD	Enterprise 1 Integration with Oracle Transportation Management Implementation Guide is available on My Oracle Support document 753973.1
Purchase Order (PO) <sup>1</sup>	R12.1.x	BPEL 11g	Certification Target TBD	
Purchase Order (PO) <sup>2</sup>	R11.5.10 CU2	BPEL 10.1.3.4 / 10.1.3.5	Certification Target TBD	
Shipping Execution (WSH) <sup>1</sup>	R12.1.x	BPEL 11g	Certification Target TBD	
Shipping Execution (WSH) <sup>2</sup>	R11.5.10 CU2	BPEL 10.1.3.4 / 10.1.3.5	Certification Target TBD	

Oracle Application	Version	Integration Software	Status	Comments
Warehouse Management (WMS) <sup>1</sup>	<i>R12.1.x</i>	BPEL 11g	Certification Target TBD	

<sup>1</sup> Integrating Oracle Transportation Management with E-Business Suite documentation is available at [http://download.oracle.com/docs/cd/B53825\\_05/current/acrobat/121otmintg.pdf](http://download.oracle.com/docs/cd/B53825_05/current/acrobat/121otmintg.pdf)

<sup>2</sup> Integrating Oracle Transportation Management with E-Business Suite documentation is available at [http://download.oracle.com/docs/cd/B25516\\_19/current/acrobat/115otmintg.pdf](http://download.oracle.com/docs/cd/B25516_19/current/acrobat/115otmintg.pdf)