Oracle® Transportation Management

Technical Architecture Guide

Release 6.3

Part No. E38420-09

January 2015

ORACLE®

Oracle® Transportation Management Technical Architecture Guide, Release 6.3

Contents

Send Us Your Comments

Oracle® Transportation Management Technical Architecture Guide, Release 6.3

Part No. E38420-09

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

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.
01/2013	-02	Adjusted translation basis and delivery release numbers.
03/2013	-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.
08/2013	-04	Updated Oracle Complementary Products. Updated Integration to Oracle Applications. Fixed the Release From Windows 2008 from R3 to R2 Added PCMiler 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.
02/2014	-06	Updated Supporting Software section: Updated FTI and GTI (Business Intelligence Server) and ETL Server for FTI and GTI to include mention of GTI. This is important since OBIEE and ODI are also required for GTI. Included 11.1.1.7 as a valid BI Publisher version.
05/2014	-07	Updated Hardware and Virtualization Software Updated Supporting Software database and browsers Added Carrier Connect Web Services certification to Vendor Complimentary Products Updated version information in Integration to Oracle Applications

Date	Document Revision	Summary of Changes
08/2014	-08	Updated Hardware supported operating systems
		Updated Supporting Software database and FTI/GTI versions
		Updated Carrier Connect in Vendor Complimentary Products
		Updated references to Oracle documentation libraries in Integration to Oracle Applications section
12/2014	-09	12c database – removed note about limitations in 6.3.5 as 6.3.6 no longer has special restrictions on migration.
		Updated browser and mobile support.
		Removed zip code content providers.
		Updated links to various vendor websites.
		Updated Integration to Oracle Applications.

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

Operating System	Platform	Comments
Oracle 64-bit Oracle Enterprise Linux 5.x, 6.x	Intel x86/AMD	
Sun 64-bit Solaris 10, 11	SPARC/Intel x86	
Windows 2012 Standard 64 -bit [Version 6.2.9200]	Intel x86/AMD	
Windows 2008 64-bit Standard Edition R2/Enterprise Edition R2	Intel x86/AMD	
Red Hat 64-bit Enterprise Linux 5.x, 6.x	Intel x86/AMD	Oracle products certified on Oracle Linux are also certified and supported on Red Hat Enterprise Linux due to implicit compatibility between both distributions. Oracle does not run any additional testing on Red Hat Enterprise Linux products. For additional information on Linux Operating System support refer to My Oracle Note 266043.1.
IBM 64-bit AIX 7.1	POWER5/POWER6	
Hewlett Packard 64-bit HP-UX 11i v3	Itanium	

Virtualization Software

Platform	Version	Comments
Oracle VM Server for x86	2.x, 3.x	
Oracle VM Server for SPARC	3.x	
Solaris Zones		
Microsoft Hyper-V	Windows 2012	

Note: Oracle Transportation Management is supported, but not certified on other VM technologies. See My Oracle Support note 804223.1 for more information.

2. Supporting Software

Tier	Product/Version	Product Website	Comments
Application Server	WebLogic 11g Rel 1 (10.3.6) Standard Edition Exalogic X3-2 Certified	Oracle http://www.oracle.com	WebLogic is not part of the Oracle Transportation Management install.
Database Server	11gR2[1] Enterprise Edition 11.2.0.4 - Certified 11.2.0.3 - Supported[1] 12.1.0.2 Exadata X3-2 Certified	Oracle http://www.oracle.com	Oracle's Database Server is not part of the Oracle Transportation Management Install. Real Application Clusters (RAC) supported [1] It is highly recommended, when using an 11g database, to run OTM with the latest patch set (i.e. 11.2.0.4).
Web Server	Oracle HTTP Server (OHS) 11g Rel 1	Oracle http://www.oracle.com	Oracle HTTP Server is not part of the Oracle Transportation Management Install.
Web Server	Tomcat 7.x	The Apache Software Foundation http://www.apache.org/	Oracle Transportation Management Install loads Tomcat.
Planning Optimizer	FICO Xpress Optimization Suite 7.3	FICO http://www.fico.com/en/products/fico-xpress-optimization-suite#overview	Oracle Transportation Management Install loads FICO Xpress Optimizer

Tier	Product/Version	Product Website	Comments
Reports (BI Publisher)	Oracle Business Intelligence Publisher Stand-alone – 11gR2 (11.1.1.7) Embedded – 11gR1 (10.1.3.4)	Oracle http://www.oracle.com	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 and GTI (Business Intelligence Server)	Oracle Business Intelligence Suite Enterprise Edition Plus 11gR1 (11.1.1.7)	Oracle http://www.oracle.com	The BI Suite is not part of the Oracle Transportation Management or Global Trade Management installs. Fusion Transportation Intelligence (FTI) and Global Trade Intelligence (GTI) can only be run on a server certified to run Oracle Business Intelligence Suite Enterprise Edition. Please see note below regarding Internet Explorer 10.
ETL Server for FTI and GTI	Oracle Data Integrator (ODI) 11gR1 (11.1.1.7.0)	Oracle http://www.oracle.com	Oracle Data Integrator is the data extraction, transformation, and loading tool used by the OTM FTI and GTI solutions. ODI is not part of the Oracle Transportation Management or Global Trade Management installs.
Internet Browser	Internet Explorer (IE) Versions 8[1],9, 10[2], 11[2] Version 8.0.6001.18702CO & above	Microsoft http://www.microsoft.com	[1] Only versions 9, 10, and 11 have been certified. Version 8 is supported, but it should be noted that some users have reported performance degradation when using version 8 with OTM Release 6.3 and higher. [2] At the time of this publication, IE 10 and IE 11 are not supported with OBIEE.
Internet Browser	Firefox 31.1esr	Mozilla http://www.mozilla.org	

Tier	Product/Version	Product Website	Comments
Internet Browser	Google Chrome version 37[1]	Google http://www.google.com/chrome	OTM is certified[1] with the latest version of Chrome available at the time of release, version 37. Because of Chrome's policy of automatically updating itself whenever a new release is available, issues that occur in newer versions of the browser that were not present in the certified version may require the use of an alternate browser until some future, scheduled OTM release, when OTM can once again certify against the latest Chrome browser version. [1] At time of release, there is a known issue where pop-ups such as Calendar and Volume may not function correctly or may not align correctly with their respective fields on certain screens.
Internet Browser	Safari 6 (Desktop)	Apple http://www.apple.com	
Internet Browser	Cortona 3DViewer 7.0 and later.	Parallel Graphics http://www.cortona3d.com/cortona3d-viewers	Cortona is not part of the Oracle Transportation Management Install.
Internet Browser	Adobe SVG 3.0.3	Adobe http://www.adobe.com/svg/viewer/install/	Adobe SVG Viewer is not part of the Oracle Transportation Management install. It is required in order to view Location Capacity graphs if using Internet Explorer 8. It is not required for IE 9 and higher or any other supported browsers.
Mobile Internet Browser	Apple Safari 7	Apple http://www.apple.com	Only OTM Mobile Applications are supported on Mobile devices.
Mobile Internet Browser	Android 4.4 and 5.0	Android http://www.android.com	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	
Chinese (Simplified)	Y	Y	Y	N	Y	N	N	6.3.4 delivery 6.3.3 translation basis
Chinese (Traditional)	Y	Y	Y	N	Y	N	N	6.3.4 delivery 6.3.3 translation basis
French (Canadian)	Y	Y	Y	N	Y	N	N	6.3.4 delivery 6.3.3 translation basis
French (European)	Y	Y	Y	N	Y	N	N	6.3.4 delivery 6.3.3 translation basis
German	Y	Y	Y	N	Y	N	N	6.3.4 delivery 6.3.3 translation basis
Italian	Y	Y	Y	N	Y	N	N	6.3.4 delivery 6.3.3 translation basis
Japanese	Y	Y	Y	N	Y	Some	N	6.3.4 delivery 6.3.3 translation basis
Korean	Y	Y	Y	N	Y	N	N	6.3.4 delivery 6.3.3 translation basis
Portuguese (Brazilian)	Y	Y	Y	N	Y	N	N	6.3.4 delivery 6.3.3 translation basis

Language	User Interface	Fax & Email	Reports	Online Help	Error Messages	Documentation	Training Materials	Release Schedule
Russian	Y	Y	Y	N	Y	N	N	6.3.4 delivery 6.3.3 translation basis
Spanish (European)	Y	Y	Y	N	Y	N	N	6.3.4 delivery 6.3.3 translation basis
Spanish (Latin America)	Y	Y	Y	N	Y	N	N	6.3.4 delivery 6.3.3 translation basis
Turkish	Y	Y	Y	N	Y	N	N	6.3.4 delivery 6.3.3 translation basis

Note: OTM version 6.3.6 will be the basis for the next translation scheduled to be delivered with version 6.3.7.

4. Oracle Complementary Products

Product Name/ Category	Versions Certified with OTM	Summary Description	Product Website
BPEL Process Manager	Version 10.1.2.x Version 10.1.3.x	Infrastructure to create/deploy/ manage BPEL processes. **Note**: see Section 6 for integration to Oracle Applications	http://www.oracle.com/technetwork/middleware/ias/downloads/index-095689.html
Map Viewer	Version 11.1.1.7	View geo-maps (Map Related Shipments action)	http://www.oracle.com/technetwork/middleware/mapviewer/overview/index-090261.html
Oracle Identity and Access Management Suite Plus	Version 11g (11.1.1.5)	Provides authentication, single sign-on, and identity management	http://www.oracle.com/us/products/middleware/identity-management/oiam/index.html
Oracle Webcenter content (WCC)	11gR1 (11.1.1)	Provides capabilities for storing OTM documents external to the OTM database schema.	https://www.oracle.com/us/products/middleware/webcenter/content/overview/index.html
SOA Suite	Version 11g	See below for SOA Suite Product BPEL Process Manager	http://www.oracle.com/technetwork/middleware/soasuite/overview/index.html
Spatial		View geo-maps (Map Related Shipments action) Distance Lookup/standard Address validation supported in Oracle Transportation Management	http://www.oracle.com/technetwork/database/options/spatialandgraph/overview/index.html
User Productivity Kit		Content development	http://www.oracle.com/technetwork/middleware/upk/upk-download-154651.html

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
Acrobat Reader	Adobe		View/print PDF documents	http://www.adobe.com/
CarrierConnect	SMC3	Version 3.0	LTL Transit Time (supported via the RateWare call)	http://www.smc3.com/
CarrierConnect Web Services	SMC3		LTL Transit Time (supported via the RateWare XL call)	http://www.smc3.com/
GFI FaxMaker for Networks/SMTP	GFI	SMTP 14.x	Email to fax gateway that sends out fax notifications	http://www.gfi.com/faxmaker/
Kewill Flagship	Kewill	Version 5.1	Parcel rating & transit time. For more information, see the Kewill Flagship Parcel Rate Requests Integration Guide.	http://www.kewill.com/
LTL Data Module (typically CzarLite or Canadalite)	SMC3	Provide vendor with data module format, effective date & tariff number; SMC will provide appropriate product & version.	LTL Tariffs	http://www.smc3.com/
Microsoft Share Point	Microsoft	2010	Provides capabilities for storing OTM documents external to the OTM database schema.	http://www.microsoft.com

Product Name/Category	Vendor	Versions Certified with Oracle Transportation Management	Summary Description	Vendor Website
PC*Miler |WorldWide **PC*Miler|Streets** 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 Unless otherwise noted we support any combination of OTM and ALK supported versions.	http://www.alk.com/
PC*Miler Rail Requires : PC*Miler–TCP/IP & PC*Miler-Connect	ALK Technologies Inc.	Versions 19, 20	External Distance & Service Time Lookup/standard Unless otherwise noted we support any combination of OTM and ALK supported versions.	http://www.alk.com/
PC*Miler | Web Services	ALK Technologies Inc.		External Distance & Service Time Lookup/standard	http://www.alk.com/
RateWare XL	SMC3		LTL	http://www.smc3.com/
RateWare Server	SMC3	Version 4.18	LTL Tariffs	http://www.smc3.com/
Unix Resident MileMaker	Rand McNally	Guide 19	External Distance Lookup/standard Address validation supported in Oracle Transportation Management	http://trucking.randmcnally.com

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

Unless otherwise noted in the comments, please see My Oracle Support Document "Integrating Oracle E-Business Suite with Oracle Transportation Management" at https://support.oracle.com/epmos/faces/DocumentDisplay?id=1546042.1 to locate the library for the appropriate version of E-Business Suite. These libraries contain a document titled "Integrating Oracle Transportation Management with Oracle E-Business Suite."

Oracle Application	Version	Integration Software	Status	Comments
Accounts Payable (AP)	R12.2.4, R12.2.3, R12.2.2, R12.2.1	SOA 11g	11.1.1.6.0 Certified, others Supported	Both the BPEL 10g and SOA 11g Financials flows are included with OTM. An explanation, along with instructions on how to integrate OTM with Oracle E-Business Suite Financials, can be found on My Oracle Support at https://support.oracle.com/epmos/faces/DocumentDisplay?id=1546441.1
E-Business Suite: Advanced Planning (APS), Order Management (OM), Purchase Order (PO), Shipping Execution (WSH) Warehouse Management (WMS)	R12.2.4, R12.2.3	SOA 11g	Certified	
E-Business Suite: Advanced Planning (APS), Order Management (OM), Purchase Order (PO), Shipping Execution (WSH) Warehouse Management (WMS)	R12.2.2, R12.2.1	SOA 11g	Supported	
E-Business Suite International Trade Management (ITM) Adaptor	R12.2.4, R12.2.3, R12.2.2, R12.2.1	None	Supported	Oracle E-Business Suite Integration Guide for GTM is available on http://docs.oracle.com/cd/E38437_01/otm/html/index.html
Enterprise 1 Sales Order Management, Purchase Order Management, Accounts Payable and Receivable	9.0	None	Supported	Information about Enterprise 1 integration with Oracle Transportation Management is available on My Oracle Support at https://support.oracle.com/epmos/faces/DocumentDisplay?id=753973.1