

Oracle® Retail Licensing Guide

Licensing Guide

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Value-Added Reseller (VAR) Language

Oracle Retail VAR Applications

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(i) the **MicroStrategy** Components developed and licensed by MicroStrategy Services Corporation (MicroStrategy) of McLean, Virginia to Oracle and imbedded in the MicroStrategy for Oracle Retail Data Warehouse and MicroStrategy for Oracle Retail Planning & Optimization applications.

(ii) the **Wavelink** component developed and licensed by Wavelink Corporation (Wavelink) of Kirkland, Washington, to Oracle and imbedded in Oracle Retail Mobile Store Inventory Management.

(iii) the software component known as **Access Via**™ licensed by Access Via of Seattle, Washington, and imbedded in Oracle Retail Signs and Oracle Retail Labels and Tags.

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Send Us Your Comments

Oracle Retail Licensing Guide, Release 14.1.2.1

Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document.

Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
- Does the structure of the information help you with your tasks?
- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

Note: Before sending us your comments, you might like to check that you have the latest version of the document and if any concerns are already addressed. To do this, access the Online Documentation available on the Oracle Technology Network Web site. It contains the most current Documentation Library plus all documents revised or released recently.

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Please give your name, address, electronic mail address, and telephone number (optional).

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If you require training or instruction in using Oracle software, then please contact your Oracle local office and inquire about our Oracle University offerings. A list of Oracle offices is available on our Web site at www.oracle.com.

Preface

This document provides licensing information for all third-party open-source applications

Audience

This document is intended for all purchasers of Oracle Retail software.

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:
<https://support.oracle.com>

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 14.1) or a later patch release (for example, 14.1.1). If you are installing the base release or additional patch releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch releases can contain critical information related to the base release, as well as information about code changes since the base release.

Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times **not** be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site, or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

If a more recent version of a document is available, that version supersedes all previous versions.

Oracle Retail Documentation on the Oracle Technology Network

Oracle Retail product documentation is available on the following web site:

<http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html>

(Data Model documents are not available through Oracle Technology Network. You can obtain them through My Oracle Support.)

Conventions

Navigate: This is a navigate statement. It tells you how to get to the start of the procedure and ends with a screen shot of the starting point and the statement “the Window Name window opens.”

This is a code sample

It is used to display examples of code

Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the "Program(s)"). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (<https://edelivery.oracle.com>) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle's Software Investment Guide (<http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html>), and/or contact the applicable Oracle License Management Services representative listed on <http://www.oracle.com/us/corporate/license-management-services/index.html>.

This document provides licensing information for third-party open-source applications that may be shipped with Oracle Retail products.

This document does not address infrastructure technology requirements.

See the applicable Oracle Retail product Installation Guide for information about the following:

- Hardware and software requirements
- Oracle Retail applications software compatibility

Note: Due to frequency in the use of JGoodies, licensing for its associated products appears in the Appendix.

The table below explains the solution units and the products described in this document.

Solution or Product	3 rd Party Product Name	Version
Retail Analytics	Antinstaller	0.8.0
Retail Analytics	Commons CLI	1.2
Retail Analytics	Groovy	2.3.6
Retail Analytics	Incanto	0.2.4
Retail Analytics	Log4j	1.2.17
Retail Analytics	JSCH	0.1.45
Retail Analytics	XMLTask	1.16
Integration Suite	AntInstaller	0.8.0
Integration Suite	Castor	1.3.2
Integration Suite	Commons BeanUtils	1.8.3
Integration Suite	Commons CLI	1.2

Solution or Product	3rd Party Product Name	Version
Integration Suite	Commons Collections	3.2
Integration Suite	Commons Discovery	0.5
Integration Suite	Commons IO	2.4
Integration Suite	Commons Lang	2.6
Integration Suite	Commons Logging	1.1.1
Integration Suite	Commons Validator	1.4.0
Integration Suite	Eclipse Persistence	2.5
Integration Suite	Groovy	2.1.2
Integration Suite	Javassist	3.18.1
Integration Suite	Jdom	1.0
Integration Suite	Log4j	1.2.17
Integration Suite	Python	2.5.0
Integration Suite	Serializer	2.7.1
Integration Suite	Spring Framework	3.0.0
Integration Suite	stax (Streaming API for XML)	1.7
Integration Suite	Velocity	1.7
Integration Suite	Xalan	2.7.1
Integration Suite	Xerces	2.9
Integration Suite	Xml-apis	2.0.2
Integration Suite	XMLTask	1.16
Oracle Retail Allocation	Ant	1.9.4
Oracle Retail Allocation	Ant-Contrib	1.0b3
Oracle Retail Allocation	AntInstaller	0.8.0
Oracle Retail Allocation	Commons Beanutils	1.6
Oracle Retail Allocation	Commons CLI	1.1
Oracle Retail Allocation	Commons Collections	3.2.1
Oracle Retail Allocation	Commons Lang	3.3.2
Oracle Retail Allocation	Commons Logging	1.04
Oracle Retail Allocation	Commons Validator	1.4.0
Oracle Retail Allocation	Incanto	0.2.4
Oracle Retail Allocation	Jackson	1.9.13
Oracle Retail Allocation	Jersey	1.18
Oracle Retail Allocation	JGoodies Common	1.8.0
Oracle Retail Allocation	JSCH	0.1.51

Solution or Product	3rd Party Product Name	Version
Oracle Retail Allocation	Log4j	1.2.11, 1.2.16
Oracle Retail Allocation	XMLTask	1.16
Oracle Retail Fiscal Management	AspectJ	1.8.5
Oracle Retail Fiscal Management	Commons Collections	4.0
Oracle Retail Fiscal Management	Hamcrest	1.3
Oracle Retail Fiscal Management	Swagger Annotations	1.3.12
Oracle Retail Fiscal Management	Tax Interface	14.1.1
Oracle Retail Invoice Matching	Ant	1.9.4
Oracle Retail Invoice Matching	Ant-Contrib	1.0b3
Oracle Retail Invoice Matching	AntInstaller	0.8.0
Oracle Retail Invoice Matching	aopalliance	1
Oracle Retail Invoice Matching	Commons Beanutils	1.9.2
Oracle Retail Invoice Matching	Commons Collections	4.0
Oracle Retail Invoice Matching	Commons Digester	3.2
Oracle Retail Invoice Matching	Commons Lang	3.3.2
Oracle Retail Invoice Matching	Commons Logging	1.1.3
Oracle Retail Invoice Matching	CSRF Guard	3.0.0.503
Oracle Retail Invoice Matching	EasyMock	2.3
Oracle Retail Invoice Matching	ESAPI	2.1.0
Oracle Retail Invoice Matching	icu4j	53.1
Oracle Retail Invoice Matching	Incanto	0.2.4
Oracle Retail Invoice Matching	JavaServer Pages Standard Tab Library (JSTL)	1.1.2
Oracle Retail Invoice Matching	JGoodies Common	1.8.0
Oracle Retail Invoice Matching	Log4j	1.2.17
Oracle Retail Invoice Matching	Spring Framework	3.0.6
Oracle Retail Invoice Matching	Spring LDAP	2.0.2
Oracle Retail Invoice Matching	Struts	1.3.10
Oracle Retail Invoice Matching	XMLTask	1.16
Oracle Retail Merchandising System	Ant	1.9.4
Oracle Retail Merchandising System	Ant-Contrib	1.0b3
Oracle Retail Merchandising System	AntInstaller	0.8.0
Oracle Retail Merchandising System	Incanto	0.2.4
Oracle Retail Merchandising System	JGoodies Common	1.8.0
Oracle Retail Merchandising System	Logger	2.1.2

Solution or Product	3rd Party Product Name	Version
Oracle Retail Merchandising System	XMLTask	1.16
Oracle Retail Price Management	Ant	1.7.1
Oracle Retail Price Management	Ant-Contrib	1.0b3
Oracle Retail Price Management	AntInstaller	0.8.0
Oracle Retail Price Management	ANTLR	2.7.7
Oracle Retail Price Management	ASM	5.0.3
Oracle Retail Price Management	Castor	1.3.2
Oracle Retail Price Management	Cglib	3.1
Oracle Retail Price Management	Commons Beanutils	1.9.2
Oracle Retail Price Management	Commons Collections	3.2.1
Oracle Retail Price Management	Commons Database Common Pooling (dbcp)	2.0
Oracle Retail Price Management	Commons Digester	3.2
Oracle Retail Price Management	Commons Lang	2.6
Oracle Retail Price Management	Commons Logging	1.1.1
Oracle Retail Price Management	Commons Pool	2.2
Oracle Retail Price Management	DOM4J	1.6.1
Oracle Retail Price Management	EHCACHE	2.4.3
Oracle Retail Price Management	Incanto	0.2.4
Oracle Retail Price Management	Javassist	3.18.0 GA
Oracle Retail Price Management	JGoodies Common	1.8.0
Oracle Retail Price Management	Log4J	1.2.17
Oracle Retail Price Management	ODMG	3
Oracle Retail Price Management	SLF4J	1.6.1
Oracle Retail Price Management	XML API	2.11
Oracle Retail Price Management	XMLTask	1.16
Oracle Retail Sales Audit	Ant	1.9.4
Oracle Retail Sales Audit	Ant-Contrib	1.0b3
Oracle Retail Sales Audit	AntInstaller	0.8.0
Oracle Retail Sales Audit	Commons Lang	3.3.2
Oracle Retail Sales Audit	Commons Validator	1.4.0
Oracle Retail Sales Audit	Jackson	1.9.13
Oracle Retail Sales Audit	Jersey	1.18
Oracle Retail Sales Audit	JGoodies Common	1.8.0
Oracle Retail Sales Audit	JSCH	0.1.51

Solution or Product	3rd Party Product Name	Version
Oracle Retail Sales Audit	XMLTask	1.16
Oracle Retail Predictive Application Server	Ant	1.9.4
Oracle Retail Predictive Application Server	Ant-Contrib	1.0b3
Oracle Retail Predictive Application Server	AntInstaller	0.8.0
Oracle Retail Predictive Application Server	AOP Alliance jar	1.0
Oracle Retail Predictive Application Server	Boost	1.55
Oracle Retail Predictive Application Server	ESAPI	2.0.1
Oracle Retail Predictive Application Server	GNU libgcc, libstdc++	4.4.6
Oracle Retail Predictive Application Server	JSCH	0.1.50
Oracle Retail Predictive Application Server	JUnit	4.11
Oracle Retail Predictive Application Server	log4j	1.2.17
Oracle Retail Predictive Application Server	Spring Framework	4.0.2
Oracle Retail Predictive Application Server	TinyXML	2.6.2
Oracle Retail Predictive Application Server	XMLTask	1.16
Oracle Retail Predictive Application Server	zlib	1.2.3
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	Ant	1.7.1
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	Ant-Contrib	1.0b3
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	AntInstaller	0.8.0
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	JGoodies Common	1.8.0
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	JSCH	0.1.50
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	XMLTask	1.16
Oracle Retail Macro Space Management and In Store Space Collaboration	FarPoint Spread Control	3.5.0.10
Oracle Retail Macro Space Management and In Store Space Collaboration	Janus GridEX Control	2.0.0.2215
Oracle Retail Macro Space Management and In Store Space Collaboration	jQuery	2.0.3

Solution or Product	3rd Party Product Name	Version
Oracle Retail Macro Space Management and In Store Space Collaboration	jQuery Mobile	1.4.0
Oracle Retail Advanced Science Engine	Ant	1.7.1
Oracle Retail Advanced Science Engine	Ant-Contrib	1.0b3
Oracle Retail Advanced Science Engine	Ant Installer	0.8.0
Oracle Retail Advanced Science Engine	Castor	1.3.3
Oracle Retail Advanced Science Engine	Commons CLI	1.2
Oracle Retail Advanced Science Engine	Commons Collections	3.2.1
Oracle Retail Advanced Science Engine	Commons Configuration	1.8
Oracle Retail Advanced Science Engine	Commons IO	2.4
Oracle Retail Advanced Science Engine	Commons Lang	2.6
Oracle Retail Advanced Science Engine	Commons Logging	1.1.1
Oracle Retail Advanced Science Engine	Commons Mathematics	2.2, 3.1.1
Oracle Retail Advanced Science Engine	Commons Validator	1.4.0
Oracle Retail Advanced Science Engine	Gurobi	5.5.0 ISV
Oracle Retail Advanced Science Engine	Incanto	0.2.4
Oracle Retail Advanced Science Engine	Jackson JSON Processor	2.0.2
Oracle Retail Advanced Science Engine	Jibx-bind	1.2.5
Oracle Retail Advanced Science Engine	Log4j	1.2.17
Oracle Retail Advanced Science Engine	Open CSV	2.1
Oracle Retail Advanced Science Engine	Spring Framework	4.0.2
Oracle Retail Advanced Science Engine	XMLTask	1.16
POS Suite	Ant	1.9.4
POS Suite	Ant-Contrib	1.0b3
POS Suite	Antinstaller	0.8.0
POS Suite	Axis2	1.5.6
POS Suite	Barcode4j	2.1
POS Suite	Commons Beanutils	1.9.1
POS Suite	Commons Chain	1.2
POS Suite	Commons CLI	1.2
POS Suite	Commons Codec	1.9
POS Suite	Commons Collections	4.0
POS Suite	Commons Database Common Pooling (dbcp)	2.0
POS Suite	Commons Digester	1.8

Solution or Product	3 rd Party Product Name	Version
POS Suite	Commons Fileupload	1.3.1
POS Suite	Commons Lang	3.3.2
POS Suite	Commons Logging	1.1.3
POS Suite	Commons Validator	1.4
POS Suite	Commons XML	1.4.01
POS Suite	Displaytag	1.2
POS Suite	EclipseLink Java Persistence API	2.5.1
POS Suite	ESAPI	2.1
POS Suite	FOP	1.1
POS Suite	Globalize.js	0.1.3
POS Suite	Glyphish Pro	3
POS Suite	Incanto	0.2.4
POS Suite	Jakarta ORO	2.0.8
POS Suite	JavaServer Pages Standard Tab Library (JSTL)	1.2.1
POS Suite	Jdom	2.0.4
POS Suite	JGoodies Common	1.8 approval?
POS Suite	jQuery	1.8.3, 1.9.1
POS Suite	jQuery Easing	1.3.1
POS Suite	jQuery-iMask	0.7.0
POS Suite	jQuery Mobile	1.4.2
POS Suite	jQuery Tablesorter	2.15.3
POS Suite	jQuery UI	1.8.16
POS Suite	jSignature	2
POS Suite	Log4j	1.2.17
POS Suite	PhoneGap	2.9.1
POS Suite	Quartz	1.8.6
POS Suite	SLF4J	1.6.1
POS Suite	Spring Framework	4.0.6
POS Suite	Struts 1	1.3.10
POS Suite	Velocity	1.7
POS Suite	Xerces	2.11.0
POS Suite	XMLTask	1.16
POS Suite	ZXing	2.0

Solution or Product	3rd Party Product Name	Version
Oracle Retail Store Inventory Management	Ant	1.9.4
Oracle Retail Store Inventory Management	Ant-Contrib	1.0b3
Oracle Retail Store Inventory Management	AntInstaller	0.8.0
Oracle Retail Store Inventory Management	Apache Velocity (Engine)	1.7
Oracle Retail Store Inventory Management	Commons CLI	1.2
Oracle Retail Store Inventory Management	Commons Collections	3.2.1
Oracle Retail Store Inventory Management	Commons Lang	2.6
Oracle Retail Store Inventory Management	Commons Logging	1.1.3
Oracle Retail Store Inventory Management	Incanto	0.2.4
Oracle Retail Store Inventory Management	JGoodies Common	1.8.0
Oracle Retail Store Inventory Management	JSCH	0.1.51
Oracle Retail Store Inventory Management	Log4j	1.2.17
Oracle Retail Store Inventory Management	Wavelink Studio Server	5.x
Oracle Retail Store Inventory Management	XMLTask	1.16
Oracle Retail Advanced Inventory Planning	AntInstaller	0.8
Oracle Retail Advanced Inventory Planning	Incanto	0.2.4
Oracle Retail Advanced Inventory Planning	JSCH	0.1.50
Oracle Retail Advanced Inventory Planning	Microline Component Toolkit	3.0f2
Oracle Retail Advanced Inventory Planning	XMLTask	1.16
Oracle Retail Warehouse Management System	Ant-Contrib	1.0b3
Oracle Retail Warehouse Management System	AntInstaller	0.8.0
Oracle Retail Warehouse Management System	Commons Beanutils	1.6
Oracle Retail Warehouse Management System	Commons CLI	1.2
Oracle Retail Warehouse Management System	Commons Collections	3.2
Oracle Retail Warehouse Management System	Commons Lang	2.0
Oracle Retail Warehouse Management System	Commons Logging	1.1.1
Oracle Retail Warehouse Management System	Incanto	0.2.4
Oracle Retail Warehouse Management System	JGoodies Common	1.8.0
Oracle Retail Warehouse Management System	JSCH	0.1.50
Oracle Retail Warehouse Management System	XMLTask	1.16
Oracle Retail applications that reside on the RPAS platform (Supply Chain Management)	Ant	1.7.1
Oracle Retail applications that reside on the RPAS platform (Supply Chain Management)	Ant-Contrib	1.0b3

Solution or Product	3rd Party Product Name	Version
Oracle Retail applications that reside on the RPAS platform (Supply Chain Management)	AntInstaller	0.8.0
Oracle Retail applications that reside on the RPAS platform (Supply Chain Management)	JGoodies Common	1.8.0
Oracle Retail applications that reside on the RPAS platform (Supply Chain Management)	JSCH	0.1.50
Oracle Retail applications that reside on the RPAS platform (Supply Chain Management)	XMLTask	1.16
Oracle Retail Tax Integration Layer	AOP Alliance	1
Oracle Retail Tax Integration Layer	Apache Axiom	1.2.12
Oracle Retail Tax Integration Layer	ASM	5.0.2
Oracle Retail Tax Integration Layer	cglib-nodep	3.1
Oracle Retail Tax Integration Layer	Commons Beanutils	1.9.0
Oracle Retail Tax Integration Layer	Commons Database Common Pooling (dbcp)	1.4
Oracle Retail Tax Integration Layer	Commons IO	2.4
Oracle Retail Tax Integration Layer	Commons Lang	3.3.2
Oracle Retail Tax Integration Layer	Commons Logging	1.2
Oracle Retail Tax Integration Layer	Commons Pool	2.2
Oracle Retail Tax Integration Layer	DOM4J	1.6.1
Oracle Retail Tax Integration Layer	Dozer	5.5.1
Oracle Retail Tax Integration Layer	GSON	2.3.1
Oracle Retail Tax Integration Layer	Javassist	3.18.0-GA
Oracle Retail Tax Integration Layer	JSON Simple	1.1
Oracle Retail Tax Integration Layer	Log4J	2.1
Oracle Retail Tax Integration Layer	Reflections	0.9.9-RC1
Oracle Retail Tax Integration Layer	SLF4J	1.7.1
Oracle Retail Tax Integration Layer	Spring	2.5.6 SEC03
Oracle Retail Tax Integration Layer	XStream	1.4.7
Oracle Retail Mobile Merchandising	ASM	3.1
Oracle Retail Mobile Merchandising	Jackson	1.9.13
Oracle Retail Mobile Merchandising	Jersey	1.18

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Definitions

“Application Archive” refers to the MAF Foundation mobile application archive, which is an Oracle proprietary mobile application deployment format that can only be used with Oracle supported development tools. It is not related to or based on any non-Oracle application archive format, including iOS application archives.

“Application Executable” refers to a mobile application executable installation file, such as an apk or ipa file.

“Application Workspace” refers to a series of files making up the source code of a mobile application developed using MAF Foundation.

“Data Control” refers to MAF Foundation mobile application artifacts that provides standard metadata interfaces to business services (such as web services) accessed by the mobile application.

“Feature” refers to specific MAF Foundation mobile application artifacts that are the building blocks of a mobile application, where each Feature integrated into the mobile application performs a specific set of tasks.

Table 1

Capabilities that may be used when MAF Foundation is included as a component within another Oracle product.

Capability	Description
Sign and deploy Application Archive or Application Workspace into an Application Executable	Sign the mobile application with the appropriate certificates, and deploy the Application Archive or Workspace into an Application Executable.
Make modifications to an Application Archive as specified, except as listed in Table 2 below	<p>The following modifications to Application Archives are allowed. For details of how to work with MAF Foundation Application Archives, consult the Mobile Application Framework Developer Guide.</p> <ul style="list-style-type: none"> • Deploy a browser-based Oracle mobile application into MAF Foundation to run as Remote URL Feature(s) • Access device-native services such as the notification framework or camera • Change branding details such as mobile application/navigation bar icons and skins • Modify business logic components and the user interface of the mobile application to align with your implemented business processes and customizations in the associated Oracle non-mobile application(s)
Distribute Application Executable generated from Application	Distribute the Application Executable generated from an Application Archive to the extent permitted by, and in full compliance with, (a) the Oracle license terms associated with the

Capability	Description
Archive or Application Workspace	Primary Product, and (b) any applicable third-party distribution terms and conditions required either by the mobile operating system provider or the application distribution platform provider (e.g., Apple Inc., Google, Inc.).
Manage the mobile application using mobile application management (MAM) solutions	Use MAM solutions with mobile applications generated from an Application Archive; for example, wrapping the mobile application binaries with the containers provided by the MAM solution.

Table 2

Capabilities that may not be used when MAF Foundation is included as a component within another Oracle product.

Capability	Description
Add a new Mobile Application Framework Feature	Add a new MAF Feature such as AMX or Local HTML-based Features, except when embedding a web-based Oracle Application as a Remote URL Feature (as addressed in Table 1 above).
Add a Remote URL Feature to Applications outside of App License Agreement	Add a Remote URL Feature pointing to any application or features that are not part of the Primary Product. For example, for an Application Archive shipped as part of the Oracle PeopleSoft application, add a Remote URL Feature pointing to Oracle Siebel CRM application or to third party applications.
Add a new MAF Data Control	Add a new Data Control to the MAF-based mobile Application Archive or Application Workspace. For example, a Web Service Data Control that exposes backend data services or a Bean Data Control that exposes custom Java code to the application's user interface.

Oracle Retail Analytics

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes

2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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Mersenne Twister

=====
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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`

or `init_by_array(init_key, key_length)`.

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<http://www.math.keio.ac.jp/matumoto/emt.html>

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=====

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L. Peter Deutsch

ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically. 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

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=====

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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zlib.h -- interface of the 'zlib' general purpose compression library
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Integration	Retail Service Layer
Merchandising Operations Management	Allocation
Merchandising Operations Management	Retail Invoice Matching
Merchandising Operations Management	Retail Price Management
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Merchandising Operations Management	Retail Sales Audit
Merchandising Operations Management	Retail Trade Management
Merchandising, Planning & Optimization	Assortment Planning
Merchandising, Planning & Optimization	Category Management
Merchandising, Planning & Optimization	Inventory Planning
Merchandising, Planning & Optimization	Item Planning
Merchandising, Planning & Optimization	Item Planning Configured for COE
Merchandising, Planning & Optimization	Merchandise Financial Planning – Cost
Merchandising, Planning & Optimization	Merchandise Financial Planning – Retail
Merchandising, Planning & Optimization	PO View
Merchandising, Planning & Optimization	RPAS Engine
Merchandising, Planning & Optimization	RPAS Fusion Client
Merchandising, Planning & Optimization	Regular Price Optimization
Merchandising, Planning & Optimization	Size Profile Optimization
Oracle Retail Advanced Science Engine	Oracle Advanced Clustering
Oracle Retail Advanced Science Engine	Oracle Assortment and Space Optimization
Oracle Retail Advanced Science Engine	Oracle Retail Advanced Science Engine
Stores	Back Office
Stores	Central Office
Stores	Mobile Point-of-Service
Stores	Point-of-Service
Stores	Returns Management
Stores	Store Inventory Management
Supply Chain	Advanced Inventory Planning

Solution Unit	Product
Supply Chain	Replenishment Optimization
Supply Chain	Retail Demand Forecasting
Supply Chain	Cross Promotion Elasticity Module (RDF)
Supply Chain	Retail Warehouse Management System

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