

Oracle® Retail
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Primary Author: Kenneth Ramoska

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Value-Added Reseller (VAR) Language

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Oracle Retail Licensing Guide, Release 15.x.

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

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- Did you understand the context of the procedures?
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- Do you need different information or graphics? If so, where, and in what format?
- Are the examples correct? Do you need more examples?

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Preface

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

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Due to the nature of the product architecture, it may not be possible to safely include all features described in this document without risking significant destabilization of the code.

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

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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, 15.0) or a later patch release (for example, 15.0.1). 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 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 Looks and JGoodies Common, licensing for its associated products appears in the Appendix.

The following table lists the solution units and the products described in this document.

Solution or Product	3 rd Party Product Name	Version
Retail Insights	Ant	1.9.6
Retail Insights	Ant-Contrib	1.0b3
Retail Insights	Antinstaller	0.8.0
Retail Insights	Charts	1.0.2
Retail Insights	CLDR	27
Retail Insights	CLDR JS	0.4.1
Retail Insights	Commons CLI	1.3.1
Retail Insights	Commons Codec	1.10
Retail Insights	Commons Logging	1.2
Retail Insights	D3	3.5.5
Retail Insights	Globalize	1.1.0
Retail Insights	Groovy	2.4.4
Retail Insights	Incanto	0.2.4
Retail Insights	jQuery	1.11.3
Retail Insights	jQuery UI	1.11.4
Retail Insights	Log4J	2.3 (update to 2.1 LT 21560)
Retail Insights	Tooltipster	3.3.0
Oracle Retail Integration Bus	Ant	1.9.6
Oracle Retail Integration Bus	ANTLR	2.7.5, 2.7.7
Oracle Retail Integration Bus	Castor	1.3.2

Solution or Product	3rd Party Product Name	Version
Oracle Retail Integration Bus	Commons BeanUtils	1.8.3
Oracle Retail Integration Bus	Commons CLI	1.3.1
Oracle Retail Integration Bus	Commons Collections	3.2.2
Oracle Retail Integration Bus	Commons IO	1.2, 1.3, 2.4
Oracle Retail Integration Bus	Commons Lang	2.6
Oracle Retail Integration Bus	Commons Validator	1.4
Oracle Retail Integration Bus	Groovy	2.4.4
Oracle Retail Integration Bus	Jakarta ORO	2.0.8, 2.2
Oracle Retail Integration Bus	Javassist	3.2
Oracle Retail Integration Bus	JDOM	2.0.6
Oracle Retail Integration Bus	Log4j	1.2.17
Oracle Retail Integration Bus	Velocity	1.7
Oracle Retail Integration Bus	Xalan	2.7.2
Oracle Retail Integration Bus	Xerces Impl	2.11
Oracle Retail Service Backbone	Ant	1.9.6
Oracle Retail Service Backbone	ANTLR	2.7.5, 2.7.7
Oracle Retail Service Backbone	Castor	1.3.2
Oracle Retail Service Backbone	Commons BeanUtils	1.8.3
Oracle Retail Service Backbone	Commons CLI	1.3.1
Oracle Retail Service Backbone	Commons Collections	3.2.1
Oracle Retail Service Backbone	Commons IO	1.2, 1.3, 2.4
Oracle Retail Service Backbone	Commons Lang	2.6
Oracle Retail Service Backbone	Commons Validator	1.4
Oracle Retail Service Backbone	Groovy	2.4.4
Oracle Retail Service Backbone	Guava	18.0
Oracle Retail Service Backbone	Jakarta ORO	2.0.8, 2.2
Oracle Retail Service Backbone	Javassist	3.2
Oracle Retail Service Backbone	JDOM	2.0.6
Oracle Retail Service Backbone	Log4j	1.2.17
Oracle Retail Service Backbone	Velocity	1.7
Oracle Retail Service Backbone	Xalan	2.7.2
Oracle Retail Service Backbone	XercesImpl	2.11.0
Oracle Retail Data Extractor for Merchandising 15.0	Ant	1.9.6
Oracle Retail Data Extractor for Merchandising 15.0	Ant-Contrib	1.0b3

Solution or Product	3rd Party Product Name	Version
Oracle Retail Data Extractor for Merchandising 15.0	Ant Installer	0.8.0
Oracle Retail Data Extractor for Merchandising 15.0	Commons CLI	1.3.1
Oracle Retail Data Extractor for Merchandising 15.0	Commons Codec	1.10
Oracle Retail Data Extractor for Merchandising 15.0	Commons Logging	1.2
Oracle Retail Data Extractor for Merchandising 15.0	Groovy	2.4.4
Oracle Retail Data Extractor for Merchandising 15.0	Incanto	0.2.4
Oracle Retail Data Extractor for Merchandising 15.0	Log4J	2.3
Oracle Retail Data Extractor for Merchandising 15.1	Ant	1.9.6
Oracle Retail Data Extractor for Merchandising 15.1	Ant-Contrib	1.0b3
Oracle Retail Data Extractor for Merchandising 15.1	Ant Installer	0.8.0
Oracle Retail Data Extractor for Merchandising 15.1	Commons CLI	1.3.1
Oracle Retail Data Extractor for Merchandising 15.1	Commons Codec	1.10
Oracle Retail Data Extractor for Merchandising 15.1	Commons Logging	1.2
Oracle Retail Data Extractor for Merchandising 15.1	Groovy	2.4.4
Oracle Retail Data Extractor for Merchandising 15.1	Incanto	0.2.4
Oracle Retail Data Extractor for Merchandising 15.1	Log4J	2.3
Oracle Retail Allocation	Ant	1.9.6
Oracle Retail Allocation	Ant-Contrib	1.0b3
Oracle Retail Allocation	Ant Installer	0.8.0
Oracle Retail Allocation	Commons Beanutils	1.6, 1.7, 1.8
Oracle Retail Allocation	Commons Collections	3.2
Oracle Retail Allocation	Commons Lang	3.3.2
Oracle Retail Allocation	Commons Logging	1.04, 1.1, 1.2
Oracle Retail Allocation	Commons Validator	1.4
Oracle Retail Allocation	Jackson	2.4.4
Oracle Retail Allocation	JSch	0.1.53
Oracle Retail Allocation	Log4j	1.2.17
Oracle Retail Allocation	XMLTask	1.16
Oracle Retail Invoice Matching	Ant	1.9.6
Oracle Retail Invoice Matching	Ant-Contrib	1.0b3
Oracle Retail Invoice Matching	Ant Installer	0.8.0
Oracle Retail Invoice Matching	Commons Beanutils	1.6, 1.7, 1.8
Oracle Retail Invoice Matching	Commons Collections	3.2
Oracle Retail Invoice Matching	Commons Lang	3.3.2

Solution or Product	3rd Party Product Name	Version
Oracle Retail Invoice Matching	Commons Logging	1.0.4, 1.1, 1.2
Oracle Retail Invoice Matching	Commons Validator	1.4
Oracle Retail Invoice Matching	Jackson	2.4.4
Oracle Retail Invoice Matching	JSch	0.1.53
Oracle Retail Invoice Matching	Log4j	1.2.17
Oracle Retail Invoice Matching	XMLTask	1.16
Oracle Retail Merchandising System	Ant	1.9.6
Oracle Retail Merchandising System	Ant-Contrib	1.0b3
Oracle Retail Merchandising System	Ant Installer	0.8.0
Oracle Retail Merchandising System	Commons Logging	1.2
Oracle Retail Merchandising System	Incanto	0.2.4
Oracle Retail Merchandising System	Jackson	2.4.4
Oracle Retail Merchandising System	JSch	0.1.53
Oracle Retail Merchandising System	Logger	3.0
Oracle Retail Merchandising System	XMLTask	1.16
Oracle Retail Price Management	Ant	1.9.6
Oracle Retail Price Management	Ant-Contrib	1.0b3
Oracle Retail Price Management	Ant Installer	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 DBCP	2.1
Oracle Retail Price Management	Commons Digester	3.2
Oracle Retail Price Management	Commons Lang	2.6
Oracle Retail Price Management	Commons Logging	1.2
Oracle Retail Price Management	Commons Net	3.3
Oracle Retail Price Management	Commons Pool	2.3
Oracle Retail Price Management	Commons Validator	1.4.1
Oracle Retail Price Management	DOM4J	1.6.1
Oracle Retail Price Management	EHCACHE	2.4.3
Oracle Retail Price Management	Hibernate	4.3.10

Solution or Product	3rd Party Product Name	Version
Oracle Retail Price Management	Hibernate Commons Annotations	4.0.5
Oracle Retail Price Management	Javassist	3.18.0 GA
Oracle Retail Price Management	JBoss Logging	3.1
Oracle Retail Price Management	JBoss Transaction	1.0.0
Oracle Retail Price Management	JDOM	2.0.6
Oracle Retail Price Management	JSch	0.1.53
Oracle Retail Price Management	JSTL	1.2
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	Xalan	2.7.2
Oracle Retail Price Management	Xerces Java	2.11.0
Oracle Retail Price Management	XMLTask	1.16
Oracle Retail Sales Audit	Ant	1.9.6
Oracle Retail Sales Audit	Ant-Contrib	1.0b3
Oracle Retail Sales Audit	Ant Installer	0.8.0
Oracle Retail Sales Audit	Commons Beanutils	1.6
Oracle Retail Sales Audit	Commons Collections	3.2
Oracle Retail Sales Audit	Commons Logging	1.0.4, 1.2
Oracle Retail Sales Audit	Commons Validator	1.4
Oracle Retail Sales Audit	Jackson	2.4.4
Oracle Retail Sales Audit	JSch	0.1.53
Oracle Retail Sales Audit	XMLTask	1.16
Oracle Retail Operational Insights	jQuery	1.11.3
Oracle Retail Operational Insights	jQuery UI	1.11.4
Oracle Retail Operational Insights	justGage	1.0.1
Oracle Retail Operational Insights	Raphael	2.1.2
Oracle Retail Predictive Application Server	Ant	1.9.6
Oracle Retail Predictive Application Server	Ant-Contrib	1.0b3
Oracle Retail Predictive Application Server	Ant Installer	0.8.0
Oracle Retail Predictive Application Server	Boost	1.58.0
Oracle Retail Predictive Application Server	Commons CLI	1.3.1
Oracle Retail Predictive Application Server	Commons Logging	1.2
Oracle Retail Predictive Application Server	ESAPI	2.1

Solution or Product	3rd Party Product Name	Version
Oracle Retail Predictive Application Server	GNU libgcc, libstdc++	4.4.6
Oracle Retail Predictive Application Server	Incanto	0.2.4
Oracle Retail Predictive Application Server	JSch	0.1.53
Oracle Retail Predictive Application Server	JUnit	4.11
Oracle Retail Predictive Application Server	Log4j	1.2.17
Oracle Retail Predictive Application Server	POI	3.11
Oracle Retail Predictive Application Server	Spring Framework	4.0.9
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	1.9.6
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)	Commons CLI	1.3.1
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	Commons IO	2.4
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	Commons Lang	3.1
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	Commons Logging	1.2
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	Commons Math	3.2
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	Incanto	0.2.4
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	JSch	0.1.53
Oracle Retail applications that reside on the RPAS platform (Merchandising, Planning & Optimization)	XMLTask	1.16
Oracle Retail Assortment Planning	Ant	1.9.6
Oracle Retail Assortment Planning	Ant-Contrib	1.0b3
Oracle Retail Assortment Planning	AntInstaller	0.8.0
Oracle Retail Assortment Planning	Castor	1.3.3
Oracle Retail Assortment Planning	Commons CLI	1.2, 1.3.1
Oracle Retail Assortment Planning	Commons Collections	3.2.1
Oracle Retail Assortment Planning	Commons IO	2.4

Solution or Product	3rd Party Product Name	Version
Oracle Retail Assortment Planning	Commons Lang	2.6, 3.3.2
Oracle Retail Assortment Planning	Commons Logging	1.1.1, 1.2
Oracle Retail Assortment Planning	Commons Math	2.2
Oracle Retail Assortment Planning	Incanto	0.2.4
Oracle Retail Assortment Planning	JSch	0.1.53
Oracle Retail Assortment Planning	Log4j	1.2.17
Oracle Retail Assortment Planning	Spring Framework	4.0.2
Oracle Retail Assortment Planning	XMLTask	1.16
Oracle Retail Xstore Point of Service	Ant	1.9.6
Oracle Retail Xstore Point of Service	AntInstaller	0.8.0
Oracle Retail Xstore Point of Service	ANTLR	2.7.7
Oracle Retail Xstore Point of Service	AOP Alliance	1.0.0
Oracle Retail Xstore Point of Service	ASM	5.0.4
Oracle Retail Xstore Point of Service	Bitstream Vera Fonts	1.10
Oracle Retail Xstore Point of Service	BoneCP	0.8.0
Oracle Retail Xstore Point of Service	cglib	3.1
Oracle Retail Xstore Point of Service	Classmate	1.1.0
Oracle Retail Xstore Point of Service	Commons BeanUtils	1.9.2
Oracle Retail Xstore Point of Service	Commons Codec	1.1
Oracle Retail Xstore Point of Service	Commons Collections	3.2.1
Oracle Retail Xstore Point of Service	Commons Configuration	1.10
Oracle Retail Xstore Point of Service	Commons DBCP	2.1
Oracle Retail Xstore Point of Service	Commons Digester	2.1
Oracle Retail Xstore Point of Service	Commons FileUpload	1.3.1
Oracle Retail Xstore Point of Service	Commons IO	2.4
Oracle Retail Xstore Point of Service	Commons JXPath	1.3
Oracle Retail Xstore Point of Service	Commons Lang	2.6
Oracle Retail Xstore Point of Service	Commons Lang 3	3.4
Oracle Retail Xstore Point of Service	Commons Logging	1.2
Oracle Retail Xstore Point of Service	Commons Pool	1.6
Oracle Retail Xstore Point of Service	Cordova	5.3.3
Oracle Retail Xstore Point of Service	Cordova-ionic-plugin-keyboard	1.0.7
Oracle Retail Xstore Point of Service	Cordova-plugin-console	0.2.4
Oracle Retail Xstore Point of Service	Cordova Battery Plugin	0.2.8

Solution or Product	3rd Party Product Name	Version
Oracle Retail Xstore Point of Service	Cordova CLI	5.5.1
Oracle Retail Xstore Point of Service	Cordova Device Plugin	0.2.9
Oracle Retail Xstore Point of Service	Cordova Globalization Plugin	0.3.4
Oracle Retail Xstore Point of Service	Cordova Network Information Plugin	0.2.4
Oracle Retail Xstore Point of Service	Cordova StatusBar Plugin	0.1.3
Oracle Retail Xstore Point of Service	Cordova Whitelist Plugin	1.0.0
Oracle Retail Xstore Point of Service	Core Renderer	R8
Oracle Retail Xstore Point of Service	Dd Plist	1.16
Oracle Retail Xstore Point of Service	DJ Native Swing	1.0.2
Oracle Retail Xstore Point of Service	DOM4J	1.6.1
Oracle Retail Xstore Point of Service	Dozer	5.5.1
Oracle Retail Xstore Point of Service	EHCACHE	2.10.0
Oracle Retail Xstore Point of Service	FamFamFam Silk Icons	1.3
Oracle Retail Xstore Point of Service	GChart	2.7
Oracle Retail Xstore Point of Service	GIN – GWT INjection	2.1.2
Oracle Retail Xstore Point of Service	Gson	2.3.1
Oracle Retail Xstore Point of Service	Guava	18
Oracle Retail Xstore Point of Service	Guice	4.0
Oracle Retail Xstore Point of Service	Guice AssistedInject	4.0
Oracle Retail Xstore Point of Service	GWT Drag and Drop Library	3.3.4
Oracle Retail Xstore Point of Service	GWT Phonegap	3.5.0.0
Oracle Retail Xstore Point of Service	GWT Servlet	2.5.1
Oracle Retail Xstore Point of Service	GWT Traction	1.6.0
Oracle Retail Xstore Point of Service	Hibernate	5.2.0.CR1
Oracle Retail Xstore Point of Service	Hibernate Commons Annotations	5.0.0.Final
Oracle Retail Xstore Point of Service	Hibernate Validator	5.2.0.Final
Oracle Retail Xstore Point of Service	Hibernate Validator Legacy	4.0.2
Oracle Retail Xstore Point of Service	Jakarta ORO	2.0.8
Oracle Retail Xstore Point of Service	JasperReports	4.0.2
Oracle Retail Xstore Point of Service	JasperReports Fonts	4.0.2
Oracle Retail Xstore Point of Service	JasperReports JRViewer	0.5.2
Oracle Retail Xstore Point of Service	Java Service Wrapper (Tanuki)	3.2.3
Oracle Retail Xstore Point of Service	JavaPOS	1.14
Oracle Retail Xstore Point of Service	Javassist	3.2

Solution or Product	3rd Party Product Name	Version
Oracle Retail Xstore Point of Service	JBars	02-09-2006
Oracle Retail Xstore Point of Service	JBoss Logging	3.2.1.Final
Oracle Retail Xstore Point of Service	JCommon	1.0.16
Oracle Retail Xstore Point of Service	JDOM	2.0.6
Oracle Retail Xstore Point of Service	Jetty	9.1.0, 9.2.13
Oracle Retail Xstore Point of Service	JFreeChart	1.0.13
Oracle Retail Xstore Point of Service	JGroups	3.6.6.Final
Oracle Retail Xstore Point of Service	JiBX Run	1.2.6
Oracle Retail Xstore Point of Service	JIntellitype	1.3.9
Oracle Retail Xstore Point of Service	JNA	4.1.0
Oracle Retail Xstore Point of Service	Joda-Time	2.7
Oracle Retail Xstore Point of Service	JSch	0.1.51
Oracle Retail Xstore Point of Service	JxGrabKey	0.3.2
Oracle Retail Xstore Point of Service	Log4j	1.2.17
Oracle Retail Xstore Point of Service	MGWT	1.1.2
Oracle Retail Xstore Point of Service	Mx4j	3.0.2
Oracle Retail Xstore Point of Service	PNG Encoder	1.4
Oracle Retail Xstore Point of Service	POI	3.12
Oracle Retail Xstore Point of Service	Prettify CSS	4
Oracle Retail Xstore Point of Service	Quartz	2.2.1
Oracle Retail Xstore Point of Service	RXTX Comm	2.1-7r2
Oracle Retail Xstore Point of Service	SLF4J	1.7.12
Oracle Retail Xstore Point of Service	Spring Framework	3.2.3.RELEASE
Oracle Retail Xstore Point of Service	Standard Widget Toolkit	4.4.2
Oracle Retail Xstore Point of Service	Stax2 API	3.1.4
Oracle Retail Xstore Point of Service	Tomcat	8.0.24
Oracle Retail Xstore Point of Service	Trident Swing	7.3
Oracle Retail Xstore Point of Service	Twitter4j	4.0.4
Oracle Retail Xstore Point of Service	UFTP	3.7.2
Oracle Retail Xstore Point of Service	Validation API	1.1.0Final
Oracle Retail Xstore Point of Service	Velocity	1.7
Oracle Retail Xstore Point of Service	WoodStox Wstx asl	4.2.0
Oracle Retail Xstore Point of Service	Xerces Java	2.11.0
Oracle Retail Xstore Point of Service	XPP3 MIN	1.1.4c

Solution or Product	3rd Party Product Name	Version
Oracle Retail Xstore Point of Service	XStream	1.4.8
Oracle Retail Xstore Point of Service	ZXing	3.2.1
Oracle Retail EFT Link	JDOM	2.0.6
Oracle Retail EFT Link	Log4j	1.2.17
Oracle Retail EFT Link	RXTX	2.1-7r2
Oracle Retail Store Inventory Management	Ant	1.9.6
Oracle Retail Store Inventory Management	Ant-Contrib	1.0b3
Oracle Retail Store Inventory Management	AntInstaller	0.8.0
Oracle Retail Store Inventory Management	Commons CLI	1.3.1
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	1.2
Oracle Retail Store Inventory Management	EclipseLink	2.6.1-RC1
Oracle Retail Store Inventory Management	Groovy	2.4.5
Oracle Retail Store Inventory Management	Guava	18.0
Oracle Retail Store Inventory Management	Incanto	0.2.4
Oracle Retail Store Inventory Management	Javassist	3.18.1-GA
Oracle Retail Store Inventory Management	JSch	0.1.53
Oracle Retail Store Inventory Management	Log4J	1.2.17
Oracle Retail Store Inventory Management	Velocity	1.7
Oracle Retail Store Inventory Management	XMLTask	1.16
Oracle Retail Order Broker	ANTLR	3.3
Oracle Retail Order Broker	ASM	3.1
Oracle Retail Order Broker	Batik SVG Toolkit	1.10
Oracle Retail Order Broker	BTM	2.1.3
Oracle Retail Order Broker	cglib	3.1
Oracle Retail Order Broker	Commons Codec	1.7
Oracle Retail Order Broker	Commons FileUpload	1.2.2
Oracle Retail Order Broker	Commons HttpClient	4.3.4
Oracle Retail Order Broker	Commons IO	1
Oracle Retail Order Broker	Commons Javaflow	20160505
Oracle Retail Order Broker	Commons Modeler	2.0.1
Oracle Retail Order Broker	Commons XMLSchema	2.0.3
Oracle Retail Order Broker	CXF	2.6.9

Solution or Product	3rd Party Product Name	Version
Oracle Retail Order Broker	DOM4J	5.1.0 GA
Oracle Retail Order Broker	EHCache	2.3.0
Oracle Retail Order Broker	GChart	2.7
Oracle Retail Order Broker	Google Web Toolkit	2.5.0
Oracle Retail Order Broker	Groovy	1.7.5
Oracle Retail Order Broker	GSON	2.2.2
Oracle Retail Order Broker	Hibernate JPA	2.1
Oracle Retail Order Broker	Hibernate Validator	4.3.0
Oracle Retail Order Broker	Hibernate Commons Annotations	4.0.2
Oracle Retail Order Broker	Hibernate Core	4.2.8
Oracle Retail Order Broker	Hibernate EntityManager	4.2.8
Oracle Retail Order Broker	Hibernate JMX	3.5.6
Oracle Retail Order Broker	HttpComponents Core	4.3.2
Oracle Retail Order Broker	Isomorphic Applets	4
Oracle Retail Order Broker	iText	2.1.7
Oracle Retail Order Broker	Jackson	1.9.11
Oracle Retail Order Broker	Jandex	1.1.0.Final
Oracle Retail Order Broker	Janino	2.5.15
Oracle Retail Order Broker	JasperReports	6.5.1
Oracle Retail Order Broker	Javassist	3.16.1
Oracle Retail Order Broker	Jaxen	1.1
Oracle Retail Order Broker	JBoss Logging JDK	2.1.0
Oracle Retail Order Broker	JBoss Logging Log4j	2.1.0
Oracle Retail Order Broker	JBoss Seam	2.2.0
Oracle Retail Order Broker	JBoss Serialization	1.0.3
Oracle Retail Order Broker	jBPM	3.2.5
Oracle Retail Order Broker	Jedis	2.1.0
Oracle Retail Order Broker	Jettison	1.0.1
Oracle Retail Order Broker	Joda-Time	2.5
Oracle Retail Order Broker	Log4J	1.2.17
Oracle Retail Order Broker	Neethi	3.0.2
Oracle Retail Order Broker	opencsv	2.3
Oracle Retail Order Broker	POI	3.17
Oracle Retail Order Broker	POJO xml	1

Solution or Product	3rd Party Product Name	Version
Oracle Retail Order Broker	Quartz	2.2.0
Oracle Retail Order Broker	SmartGWT	4
Oracle Retail Order Broker	SmartGWT Skins	4
Oracle Retail Order Broker	Spring Framework	3.2.7.RELEASE
Oracle Retail Order Broker	StringTemplate	4.0.4
Oracle Retail Order Broker	Stax2 API	3.1.1
Oracle Retail Order Broker	Trove	1.0.2
Oracle Retail Order Broker	Validation API	1.1.0.Final
Oracle Retail Order Broker	Velocity	1.7
Oracle Retail Order Broker	Woodstox	4.2.0
Oracle Retail Order Broker	WSDL4J	1.6.3
Oracle Retail Order Broker	Xalan Java	2.7.1
Oracle Retail Order Broker	Xalan Serializer	2.7
Oracle Retail Order Broker	Xerces	1.3.1
Oracle Retail Order Broker	XML Apis Ext	1.3.1
Oracle Retail Order Broker	XML Commons Resolver	1.2
Oracle Retail Order Broker	XML Graphics Commons	1.5
Oracle Retail Advanced Inventory Planning	Ant	1.9.6
Oracle Retail Advanced Inventory Planning	Ant-Contrib	1.0b3
Oracle Retail Advanced Inventory Planning	AntInstaller	0.8.0
Oracle Retail Advanced Inventory Planning	Boost	1.4.8
Oracle Retail Advanced Inventory Planning	Commons CLI	1.3.1
Oracle Retail Advanced Inventory Planning	Commons Logging	1.2
Oracle Retail Advanced Inventory Planning	Cygwin	v1.7
Oracle Retail Advanced Inventory Planning	Incanto	0.2.4
Oracle Retail Advanced Inventory Planning	JSch	0.1.53
Oracle Retail Advanced Inventory Planning	JUnit	3.8, 3.8.1
Oracle Retail Advanced Inventory Planning	XMLTask	1.16
Oracle Retail Warehouse Management System	Ant	1.9.6
Oracle Retail Warehouse Management System	Ant-Contrib	1.0b3
Oracle Retail Warehouse Management System	AntInstaller	0.8.0
Oracle Retail Warehouse Management System	Commons CLI	1.3.1
Oracle Retail Warehouse Management System	Commons Lang	2.6
Oracle Retail Warehouse Management System	Commons Logging	1.2

Solution or Product	3rd Party Product Name	Version
Oracle Retail Warehouse Management System	Incanto	0.2.4
Oracle Retail Warehouse Management System	JSch	0.1.53
Oracle Retail Warehouse Management System	XMLTask	1.16
Oracle Retail applications that reside on the RPAS platform (Supply Chain Management)	Ant	1.9.6
Oracle Retail applications that reside on the RPAS platform (Supply Chain Management)	Ant-Contrib	1.0b3
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)	Commons CLI	1.3.1
Oracle Retail applications that reside on the RPAS platform (Supply Chain Management)	Commons Logging	1.2
Oracle Retail applications that reside on the RPAS platform (Supply Chain Management)	Incanto	0.2.4
Oracle Retail applications that reside on the RPAS platform (Supply Chain Management)	JSch	0.1.53
Oracle Retail applications that reside on the RPAS platform (Supply Chain Management)	XMLTask	1.16
Oracle Retail Analytic Parameter Calculator Replenishment Optimization	Ant	1.9.4
Oracle Retail Analytic Parameter Calculator Replenishment Optimization	Colt	1.2
Oracle Retail Analytic Parameter Calculator Replenishment Optimization	Commons Math	3.2

Restricted Use Licenses

This chapter describes products that use restricted licenses.

Oracle Retail Predictive Application Server (RPAS)

This media pack includes a Restricted Use license for Oracle Retail Predictive Application Server (RPAS) - Enterprise Engine to support Oracle Retail Merchandise Financial Planning only.

Oracle Retail Merchandising System (RMS)

Oracle Retail Merchandising System uses restricted licenses. For more information, see [Mobile Archive Restricted Use Licenses](#).

Oracle Retail Mobile Merchandising

Oracle Retail Mobile Merchandising uses restricted licenses. For more information, see [Mobile Archive Restricted Use Licenses](#).

Oracle Retail Sales Audit (ReSA)

Oracle Retail Sales Audit uses restricted licenses. For more information, see [Mobile Archive Restricted Use Licenses](#).

Oracle Retail Allocation

Oracle Retail Allocation uses restricted licenses. For more information, see [Mobile Archive Restricted Use Licenses](#).

Oracle Retail Invoice Matching (ReIM)

Oracle Retail Invoice Matching (ReIM) uses restricted licenses. For more information, see [Mobile Archive Restricted Use Licenses](#).

Mobile Archive Restricted Use Licenses

The following text applies to all Oracle Retail applications that contain a mobile component.

The Program includes a mobile application archive or library (“Mobile Archive”) based on Oracle Mobile Application Framework Foundation. Your use of the Mobile Archive is limited to the following:

1. Insert your brand or logo where indicated (removing Oracle’s brands, logos, and trademarks, if any, but not removing or modifying any Oracle copyright statements) in the Mobile Archive;
2. Modify the Mobile Archive as permitted by the “Oracle Mobile Application Framework Foundation” section below;

3. Compile, complete, and sign the Mobile Archive with your own mobile operating system-specific certificate(s), thereby creating a mobile application (“Mobile Application”); and
4. Distribute the Mobile Application only within your enterprise or entity to your internal users. You may not distribute the Mobile Archive to your internal end users except to the extent necessary for the creation of the Mobile Application.

With respect to your distribution of the Mobile Archive as included in a Mobile Application (a) you must abide by the terms and conditions in the Programs license agreement pertaining to separately licensed third party technology and the separate terms applying to such technology, and (b) these terms constitute your order under which you are permitted to distribute the Mobile Archive portion of the Programs. With respect to creating a Mobile Application, you acknowledge that you must separately agree to and abide by license terms with the applicable mobile operating system provider and possibly other third parties. For example, for iOS applications, you agree that the Mobile Application, in whole or in part, may not be installed on a mobile device or executed except as incorporated into an iOS application that has been signed using an appropriate Apple-issued certificate that you obtained directly from Apple and that is deployed in full compliance with your agreement with Oracle (including these terms) and license terms set forth in a separate agreement between you and Apple.

Oracle Retail Xstore Point Of Service Mobile Archive Restricted Use Licenses

The Oracle Retail Xstore Point of Service Program includes one or more mobile application archives or libraries (each a “Mobile Archive”). Your use of the Mobile Archive is limited to the following:

1. Modify the Mobile Archive to include your custom branding, look and feel, and functionally extensions;
2. Insert your brand or logo where indicated (removing Oracle’s brands, logos, and trademarks, if any, but not removing or modifying any Oracle copyright statements except as stated in the following paragraph) in the Mobile Archive;
3. If you modify the Mobile Archive as set forth above, append the word “Portions” before any Oracle copyright statement (as an example, “Portions Copyright © 2015, Oracle and/or its affiliates. All rights reserved.”)
4. Compile, complete, and sign the Mobile Archive with your own mobile operating system-specific certificate(s), thereby creating a mobile application (“Mobile Application”); and
5. Distribute the Mobile Application only within your enterprise or entity to your internal users. You may not distribute the Mobile Archive to your internal end users except to the extent necessary for the creation of the Mobile Application.

With respect to your distribution of the Mobile Archive as included in a Mobile Application (a) you must abide by the terms and conditions in the Programs license agreement pertaining to separately licensed third party technology and the separate terms applying to such technology, and (b) these terms constitute your order under which you are permitted to distribute the Mobile Archive portion of the Programs. With respect to creating a Mobile Application, you acknowledge that you must separately agree to and abide by license terms with the applicable mobile operating system provider and possibly other third parties. For example, for iOS applications, you agree that the

Mobile Application, in whole or in part, may not be installed on a mobile device or executed except as incorporated into an iOS application that has been signed using an appropriate Apple-issued certificate that you obtained directly from Apple and that is deployed in full compliance with your agreement with Oracle (including these terms) and license terms set forth in a separate agreement between you and Apple.

Oracle Mobile Application Framework Foundation

Oracle Mobile Application Framework Foundation (“MAF Foundation”) is included as a restricted use component. The following tables describe the applicable MAF Foundation usage rights and restrictions. Table 1 below lists the MAF Foundation capabilities that may be used and what, if any, restrictions apply. Table 2 lists the MAF Foundation capabilities that may be not used. Any use of the capabilities described in Table 2 requires an appropriate quantity of full use licenses for (a) Oracle Mobile Application Framework, or (b) Oracle Mobile Suite and Oracle Mobile Suite Client Runtime. MAF Foundation is the version of Oracle Mobile Application Framework that is restricted for use as described in this document. When MAF Foundation is included as a component within another Oracle product (the “Primary Product”) then, depending on the particular Primary Product, MAF Foundation may be included in the Primary Product, may be separately downloaded from Oracle Software Delivery Cloud, or may be downloaded as an extension to Oracle JDeveloper. JDeveloper is a prerequisite to using MAF Foundation and must be downloaded from Oracle Technology Network (“OTN”); see <http://www.oracle.com/technetwork/developer-tools/jdev/downloads/index.html>). Notwithstanding any other terms, use of JDeveloper is subject to the OTN license agreement associated with JDeveloper; view the license agreement at <http://www.oracle.com/technetwork/licenses/jdev-license-152012.html>.

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 Archive or Application Workspace	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 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	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

Capability	Description
outside of App License Agreement	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.

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- swt-xulrunner-win32-xxxx.dll (where "xxxx" is the version number)
- swt-xulrunner24-win32-xxxx.dll (where "xxxx" is the version number)
- swt-xpcominit-win32-xxxx.dll (where "xxxx" is the version number)

The following files in both the plug-in JAR and the src.zip shall be defined respectively as the bytecode and source code portions of the Mozilla Binding:

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The changed files are:

org.eclipse.swt/Eclipse SWT Mozilla/common/library/nsIGlobalObject_24.h
org.eclipse.swt/Eclipse SWT Mozilla/common/library/nsIScriptContext_24.h
org.eclipse.swt/Eclipse SWT Mozilla/common/library/nsIScriptGlobalObject_24.h

Changes to the original files were made by SWT on September 18, 2013 and are marked with trailing comment "//SWT-20130918".

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org.eclipse.swt/Eclipse SWT Mozilla/common/library/nsIScriptGlobalObject.h

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Independent JPEG Group's JPEG software release 6b

This software is based in part on the work of the Independent JPEG Group's JPEG software release 6b ("LIBJPEG"). LIBJPEG was used to implement the decoding of JPEG format files in Java (TM). The Content does NOT include any portion of the LIBJPEG file ansi2knr.c.

Your use of LIBJPEG is subject to the terms and conditions located in the about_files/IJG_README file which is included with the Content.

The IJG's website is located at <http://ijg.org>.

The class org.eclipse.swt.internal.image.JPEGFileFormat is based on following files from LIBJPEG:

cderror.h	jinclude.h
cdjpeg.h	jmemsys.h
jchuff.h	jmorecfg.h
jdcolor.c	jpegint.h
jdct.h	jpeglib.h
jdhuff.h	jversion.h
jerror.h	transupp.h
jidctint.c	

The class org.eclipse.swt.internal.image.JPEGDecoder is based on the following files from LIBJPEG:

jcapiamin.c	jcomapi.c	jdcoefct.c	jdpostct.c	jidctred.c	jd Huff.h
jcapistd.c	jcparam.c	jdcolor.c	jdsample.c	jpegrtran.c	jerror.h
jdcoefct.c	jdphuff.c	jdctmgr.c	jdtrans.c	jquant1.c	include.h
jdcolor.c	jdprepc.c	jd Huff.c	jerror.c	jquant2.c	morecfg.h
jdctmgr.c	jd sample.c	jdinput.c	jdctflt.c	jutils.c	jpegint.h
jd Huff.c	jdtrans.c	jdmainct.c	jdctfst.c	cderror.h	jpeglib.h
jdinit.c	jdapimin.c	jdmarker.c	jdctint.c	cdjpeg.h	version.h
jdmainct.c	jdapistd.c	jdmaster.c	jdctflt.c	jd Huff.h	transupp.h
jdmarker.c	jdastd.c	jdmerge.c	jdctfst.c	jdconfig.h	
jdmaster.c	jdastsrc.c	jdphuff.c	jdctint.c	jdct.h	

The following changes were made to the LIBJPEG code in the Content:

- In Java, pointer math is not allowed so indexing was used instead.
- Function pointers were replaced with switch statements.
- The virtual memory, tracing and progress monitoring were removed.
- The error handling was simplified and now uses Java exceptions.

PuTTY 0.58 (derivative work)

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libswt-gnome-gtk-xxxx.so (where "xxxx" is the version number)

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GTK+ Binding

The "GTK+ Binding" is a binding to the GTK+ API. The Content may include any or all of the following files:

The following files in the plug-in JAR shall be defined as the native code portion of the GTK+ Binding:

libswt-atk-gtk-xxxx.so (where "xxxx" is the version number)

libswt-pi-gtk-xxxx.so (where "xxxx" is the version number)

The following files in both the plug-in JAR and the src.zip shall be defined respectively as the bytecode and source code portions of the GTK+ Binding:

The contents of the directory org/eclipse/swt/internal/accessibility/gtk (but not including any sub-directories)

The contents of the directory org/eclipse/swt/internal/cde (but not including any sub-directories)

The contents of the directory org/eclipse/swt/internal/gtk (but not including any sub-directories)

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WebKitGTK+ Binding

The "WebKitGTK+ Binding" is a binding to the WebKitGTK+ API. The Content may include any or all of the following files:

The following files in the plug-in JAR shall be defined as the native code portion of the WebKitGTK+ Binding:

libswt-webkit-gtk-xxxx.so (where "xxxx" is the version number)

The following files in both the plug-in JAR and the src.zip shall be defined respectively as the bytecode and source code portions of the WebKitGTK+ Binding:

The contents of the directory org/eclipse/swt/internal/webkit (but not including any sub-directories)

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libsoup

The "WebKitGTK+ Binding" also includes a binding to the libsoup API. The Content may include any or all of the following files:

The following files in the plug-in JAR shall be defined as the native code portion of the WebKitGTK+ Binding:

libswt-webkit-gtk-xxxx.so (where "xxxx" is the version number)

The following files in both the plug-in JAR and the src.zip shall be defined respectively as the bytecode and source code portions of the WebKitGTK+ Binding:

The contents of the directory org/eclipse/swt/internal/webkit (but not including any sub-directories)

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Mozilla Binding

The "Mozilla Binding" is a binding to the Mozilla API. The Content may include any or all of the following files:

The following files in the plug-in JAR shall be defined as the native code portion of the Mozilla Binding:

libswt-mozilla-gtk-xxxx.so (where "xxxx" is the version number)

libswt-xulrunner-gtk-xxxx.so (where "xxxx" is the version number)

libswt-xulrunner24-gtk-xxxx.so (where "xxxx" is the version number)

libswt-xpcominit-gtk-xxxx.so (where "xxxx" is the version number)

The following files in both the plug-in JAR and the src.zip shall be defined respectively as the bytecode and source code portions of the Mozilla Binding:

The contents of the directory org/eclipse/swt/internal/mozilla (but not including any sub-directories)

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XULRunner 24 (subset, derivative work)

The library swt-xulrunner24-gtk-xxxx.dll (where "xxxx" is the version number) contains a small portion of XULRunner 24 content (header files) that have been modified from the Original Code provided by mozilla.org, and whose Initial Developer is Netscape Communications Corporation. Use of this code is governed by the terms and conditions

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The changed files are:

```
org.eclipse.swt/Eclipse SWT Mozilla/common/library/nsIGlobalObject_24.h
org.eclipse.swt/Eclipse SWT Mozilla/common/library/nsIScriptContext_24.h
org.eclipse.swt/Eclipse SWT Mozilla/common/library/nsIScriptGlobalObject_24.h
```

Changes to the original files were made by SWT on September 18, 2013 and are marked with trailing comment "//SWT-20130918".

XULRunner 1.9 (subset, derivative work)

The libraries libswt-xulrunner-gtk-xxxx.so, libswt-mozilla-gtk-xxxx.so, and libswt-mozilla-gcc3-gtk-xxxx.so (where "xxxx" is the version number) contain a small portion of XULRunner 1.9 content (header files) that have been modified from the Original Code provided by mozilla.org, and whose Initial Developer is Netscape Communications Corporation. Use of this code is governed by the terms and conditions of the Mozilla Public License Version 1.1 ("MPL"). A copy of the MPL is provided with the Content (mpl-v11.txt) and is also available at <http://www.mozilla.org/MPL/MPL-1.1.html>.

The changed files are:

```
org.eclipse.swt/Eclipse SWT Mozilla/common/library/nsIScriptContext.h
org.eclipse.swt/Eclipse SWT Mozilla/common/library/nsIScriptGlobalObject.h
```

Changes to the original files were made by SWT on April 7, 2009 and are marked with trailing comment "//SWT-20090407".

Cairo Binding

The "Cairo Binding" is a binding to the Cairo API. The Content may include any or all of the following files:

The following files in the plug-in JAR shall be defined as the native code portion of the Cairo Binding:

```
libswt-cairo-gtk-xxxx.so (where "xxxx" is the version number)
```

The following files in both the plug-in JAR and the src.zip shall be defined respectively as the bytecode and source code portions of the Cairo Binding:

The contents of the directory org/eclipse/swt/internal/cairo (but not including any sub-directories)

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Merchandising Operations Management	Retail Merchandising Sytem
Merchandising Operations Management	Retail Sales Audit
Retail Integration Suite	Retail Data Extractor for Merchandising 15.0, 15.1
Merchandising, Planning & Optimization	Assortment Planning
Merchandising, Planning & Optimization	Category Management Planning and Optimization
Merchandising, Planning & Optimization	Macro Space Optimization
Merchandising, Planning & Optimization	Item Planning
Merchandising, Planning & Optimization	Merchandise Financial Planning
Merchandising, Planning & Optimization	Regular Price Optimization
Merchandising, Planning & Optimization	Size Profile Optimization
Oracle Retail Predictive Application Server	Oracle Retail Predictive Application Server
Supply Chain	Store Inventory Management
Supply Chain	Advanced Inventory Planning
Supply Chain	Replenishment Optimization
Supply Chain	Retail Demand Forecasting
Supply Chain	Retail Warehouse Management System

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Merchandising Operations Management	Retail Price Management
Merchandising Operations Management	Retail Merchandising Sytem
Merchandising Operations Management	Retail Sales Audit
Retail Integration Suite	Retail Data Extractor for Merchandising 15.0, 15.1
Merchandising, Planning & Optimization	Assortment Planning
Merchandising, Planning & Optimization	Category Management Planning and Optimization
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Merchandising, Planning & Optimization	Item Planning
Merchandising, Planning & Optimization	Merchandise Financial Planning
Merchandising, Planning & Optimization	Regular Price Optimization
Merchandising, Planning & Optimization	Size Profile Optimization
Oracle Retail Predictive Application Server	Oracle Retail Predictive Application Server
Supply Chain	Store Inventory Management
Supply Chain	Advanced Inventory Planning

Solution Unit	Product
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Supply Chain	Retail Demand Forecasting
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