

Oracle® Retail

Licensing Information User Manual



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ORACLE®

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Preface

The *Oracle Retail Licensing Information User Manual* provides licensing information for all third-party open-source applications

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- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Oracle Help Center (docs.oracle.com)

Oracle Retail Product documentation is available on the following website <https://docs.oracle.com/en/industries/retail/html>

Comments and Suggestions

Please give us feedback about Oracle Retail Help and Guides. You can send an e-mail to: retail-doc_us@oracle.com

Oracle Retail Cloud Services and Business Agility

Oracle Retail (Product Name) Cloud Service is hosted in the Oracle Cloud with the security features inherent to Oracle technology and a robust data center classification, providing significant uptime. The Oracle Cloud team is responsible for installing, monitoring, patching, and upgrading retail software.

Included in the service is continuous technical support, access to software feature enhancements, hardware upgrades, and disaster recovery. The Cloud Service model helps to free customer IT resources from the need to perform these tasks, giving retailers greater business agility to respond to changing technologies and to perform more value-added tasks focused on business processes and innovation.

Oracle Retail Software Cloud Service is acquired exclusively through a subscription service (SaaS) model. This shifts funding from a capital investment in software to an operational expense. Subscription-based pricing for retail applications offers flexibility and cost effectiveness.

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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>.

For Cloud Only Products

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Store Operations Licensing Information

This chapter provides the following licensing information for Store Operations.

- Description of products.
- Prerequisite products.
- Entitled products and restricted use licenses.

Prerequisite products, entitled products, and restricted use licenses do not apply to Oracle Retail Cloud products.

Legal Licensing Information

The following table lists the legal licensing information for Store Operations.

Retail Solution Unit	Product	Licensing Information
Store Operations	Xstore Office and Xstore Office Cloud Service	Product Editions and Permitted Features Oracle Retail Xstore Office is a central web-based management console that provides for the effortless management of the data and configurations that empower your associates. The user interface within Oracle Retail Xstore Office provides streamlined functionality that guides users through configuration changes, data changes, and deployments. Granular security access can create a custom experience for users of all access levels. Multiple support tools and alerts enable IT leaders to take a proactive approach to managing multiple installations. Entitled Products and Restricted Use Licenses NA

Retail Solution Unit	Product	Licensing Information
Store Operations	Xstore Point-of-Service	<p>Product Editions and Permitted Features</p> <p>Oracle Retail Xstore Office is a central web-based management console that provides for the effortless management of the data and configurations that empower your associates. The user interface within Oracle Retail Xstore Office provides streamlined functionality that guides users through configuration changes, data changes, and deployments. Granular security access can create a custom experience for users of all access levels. Multiple support tools and alerts enable IT leaders to take a proactive approach to managing multiple installations.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>A license to Oracle Retail Xstore ("Xstore") includes licenses to the WSDL files for Oracle Retail Order Broker, Oracle Retail Order Management System and Oracle Retail Customer Engagement. The license to the WSDL files provides the limited right to use the WSDL files and develop an integration between Xstore and Oracle Retail Order Broker, Oracle Retail Order Management System and/or Oracle Retail Customer Engagement for your internal business operations. Oracle retains all ownership and intellectual property rights to the WSDL files and your ownership of the integration is subject to Oracle's ownership. You may allow your third party system integrator to use the WSDL files and develop the integration for your internal business operations. Other than the foregoing, you agree the WSDL files are Oracle confidential information and you agree not to disclose, provide or give access to the WSDL files to any third party. Any other use is not included and requires a separate license from Oracle.</p>

Retail Solution Unit	Product	Licensing Information
Store Operations	EFT Link	<p>Product Editions and Permitted Features</p> <p>Oracle Retail EFTLink is a middleware product that enables Oracle to remove Xstore Point of Service from the costly and frequently changing Payment Application Data Security Standard (PA-DSS).</p> <p>As retailers continue to investigate the most cost effective ways in which they can become compliant with PCI standards, EFTLink provides a tested and mature approach that is already deployed in over ten countries. The solution has been adopted as the strategic approach for Xstore Point of Service and enables the rapid support of payment solutions in new markets by working with payment providers who are local and/or offer an extensive international network.</p> <p>EFTLink uses an industry-standard interface to the point of service and then translates the messages to the relevant format provided by the payment provider, enabling the POS to be outside of the payment scope.</p> <p>In addition to providing the payment foundation for Xstore Point of Service, EFTLink is compatible with the new Oracle Retail Xstore Point of Service for Grocery, which also targets the convenience store market.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>NA</p>
Store Operations	Enterprise Inventory Cloud Service	<p>Product Editions and Permitted Features</p> <p>Oracle Retail Enterprise Inventory Cloud Service (EICS) serves as the services engine to streamline and integrate back-end processes.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>NA</p>
Store Operations	Store Operations Cloud Service	<p>Product Editions and Permitted Features</p> <p>Oracle Retail Store Operations Cloud Service (SOCS) delivers a modern intuitive user interface to help drive associate efficiencies and workflows.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>NA</p>

Open Source Software or Other Separately Licensed Software

Required notices for open source or other separately licensed software products or components distributed in the Retail Global Business Unit are identified in the following table along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or README files of the individual third party open source software.

Retail Product	Component	Licensing Information
Xstore Office	Ant 1.10.6	Apache 2.0

Retail Product	Component	Licensing Information
	AOP Alliance 1.0.0	Public Domain
	ASM 7.1	ASM
	Bean Validation API 2.0.1.Final	Apache 2.0
	Byte Buddy 1.9.5	Apache 2.0
	cglib 3.2.10	Apache 2.0
	Commons Beanutils 1.9.4	Apache 2.0
	Commons Codec 1.13	Apache 2.0
	Commons Collections 4.3	Apache 2.0
	Commons Configuration 2.4	Apache 2.0
	Commons CSV 1.6	Apache 2.0
	Commons FileUpload 1.4	Apache 2.0
	Commons IO 2.6	Apache 2.0
	Commons Lang 3.9	Apache 2.0
	Commons Logging 1.2-0548efb	Apache 2.0
	Commons Pool 2.7.0	Apache 2.0
	Commons Text 1.6	Apache 2.0
	Cordova Android 8.0.0	Apache 2.0
	Cordova iOS 5.0.1	Apache 2.0
	Cordova Windows 6.0.1	Apache 2.0
	Cordova-plugin-migrate-localstorage 0.0.1	Apache 2.0
	DOM4J 2.1.1	DOM4J
	Dozer 6.4.1	Apache 2.0
	GIN-GWT Injection 3.0.0	Apache 2.0
	Google Web Toolkit SDK 2.8.2	Apache 2.0
	Guava 28.1	Apache 2.0
	Guice 4.2.2	Apache 2.0
	Guice Assisted Inject 4.2.2	Apache 2.0
	GWT Drag and Drop Library 3.3.4	Apache 2.0
	GWT Traction 1.6.0	Apache 2.0
	Hibernate ORM 5.4.1.Final	GNU LGPL Version 2.1
	Hibernate Validator 6.0.14.Final	Apache 2.0
	ICU4J 63.1	ICU4J
	Jackson Annotations 2.9.9	Apache 2.0
	Jackson Core 2.9.9	Apache 2.0
	Jackson Databind 2.9.9.3	Apache 2.0
	Jackson jaxrs-base 2.9.9	Apache 2.0
	Jackson jaxrs-json-provider 2.9.9	Apache 2.0

Retail Product	Component	Licensing Information
Xstore Office Cloud Service	Jackson module-jaxb-annotations 2.9.9	Apache 2.0
	JavaScript Extension Toolkit (JET) 7.2.0	JET
	Javassist 3.24.1-GA	Apache 2.0
	Jetty 9.4.18.v20190429	Jetty
	JFreeChart 1.5.0	GNU LGPL Version 2.1
	JNA 5.4.0	Apache 2.0
	JSch 0.1.55	JSch
	Log4j 2.11.1	Apache 2.0
	MGWT 2.0.0	Apache 2.0
	Mina SSHD 2.2.0	MX4J
	PDFBox 2.0.16	Apache 2.0
	Quartz Job Schedule 2.3.0	Apache 2.0
	SLF4J 1.7.26	SLF4J
	Spring Framework 5.1.4.RELEASE	Apache 2.0
	SpringWS Core 3.0.7	Apache 2.0
	Spring XML 3.0.6.RELEASE	Apache 2.0
	Tomcat 9.0.19, 9.0.22	Apache 2.0
	Velocity Engine 2.1	Apache 2.0
	ZXing 3.4.0	Apache 2.0
	Ant 1.10.12	Apache 2.0
	ASM 9.2	ASM
	Commons Collections 4.4-83acfd3	Apache 2.0
	Commons Configuration 2.9	Commons Configuration
	Commons File Upload 1.5	Commons File Upload
	Commons IO 2.11.0	Apache 2.0
	Commons Pool 2.11.1	Apache 2.0
	Commons Text 1.10.0	Apache 2.0
	Cordova Android 10.1.1	Cordova Android
	Dom4j 2.1.4	Dom4j
	Electron 21.0.1	Electron
	GSON 2.9.0	GSON
	Guava 32.1.1	Guava
	Guice 5.1.0	Apache 2.0
	Guice Assisted Inject 5.1.0	Apache 2.0
	GWT Google Web Toolkit 2.10.0	Apache 2.0
	Hibernate Commons Annotations 6.0.0.Final	GNU LGPL Version 2.1

Retail Product	Component	Licensing Information
Xstore Point-of-Service	Hibernate Validator 7.0.2.Final	Apache 2.0
	Hibernate-Core 5.6.15.Final	Hibernate Core
	ICU4J 73.1	ICU4J
	Jackson Databind 2.15.1	Jackson Databind
	Jackson jaxrs-json-provider 2.14.0	Jackson jaxrs-json-provider
	Jackson module-jaxb-annotations 2.14.0	Jackson module-jaxb-annotations
	Jakarta Mail 1.6.7	Jakarta Mail
	JavaPOS 1.14.3	JavaPOS
	Javassist 3.28.0-GA	Apache 2.0
	Jetty 9.4.51.v20230217	Jetty
	JFreeChart 1.5.3	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1
	JNA 5.1	Apache 2.0
		LGPL v2.1
	JSON Path 2.7.0	JSON Path
	Log4j-1-2-api 2.17.2	Log4j
	Log4j-api 2.17.2	Log4j
	Log4j-core 2.17.2	Log4j
	Log4j-jcl 2.17.2	Log4j
	Log4j-jul 2.17.2	Log4j
	Log4j-slf4j-impl 2.17.2	Log4j
	Mina SSHD-common 2.9.2	Mina SSHD-common
	Mina SSHD-core 2.9.2	Mina SSHD-core
	MinaSSHD-sftp 2.9.2	Mina SSHD-sftp
	PDFBox 2.0.25	Apache 2.0
	PureJavaComm 1.0.3	PureJavaComm
	slf4j-api 1.7.36	slf4j-api
	SpringWS Core 3.0.12	Apache 2.0
	Spring XML 3.0.12	Spring XML
	Spring Framework 5.3.27	Spring Framework
	Spring WS Core 3.0.12	Spring WS Core
	Spring XML 3.0.12	Spring XML
	Tomcat 9.0.65	Tomcat
	XStream 1.4.19	XStream
	Ant 1.10.6	Apache 2.0
	Ant Installer beta 0.8	Apache 2.0
	AOP Alliance 1.0.0	Public Domain

Retail Product	Component	Licensing Information
	ASM 7.1	ASM
	Bean Validation API 2.0.1.Final	Apache 2.0
	Commons Beanutils 1.9.4	Apache 2.0
	Commons Codec 1.13	Apache 2.0
	Commons Collections 4.3	Apache 2.0
	Commons Configuration 2.4	Apache 2.0
	Commons CSV 1.6	Apache 2.0
	Commons IO 2.6	Apache 2.0
	Commons Lang 3.9	Apache 2.0
	Commons Logging 1.2-0548efb	Apache 2.0
	Commons Pool 2.7.0	Apache 2.0
	Commons Text 1.6	Apache 2.0
	Cordova Android 8.0.0	Apache 2.0
	Cordova CLI 8.1.2	Apache 2.0
	Cordova Device Plugin 2.0.2	Apache 2.0
	Cordova inappbrowser Plugin 3.1.0	Apache 2.0
	Cordova iOS 5.0.1	Apache 2.0
	Cordova Plugin for Barcode Scanner 8.0.1	MIT License
	Cordova Whitelist Plugin 1.3.4	Apache 2.0
	Cordova Windows 6.0.1	Apache 2.0
	Cordova WKWebView Engine Plugin 1.2.0	Apache 2.0
	Cordova-ionic-plugin-keyboard 2.2.1	Apache 2.0
	Cordova-plugin-migrate-localstorage 0.0.1	Apache 2.0
	Cordova-plugin-splashscreen 5.0.3	Apache 2.0
	Cordova-ionic-plugin-wkwebview-file-xhr 2.1.1	Apache 2.0
	DOM4J 2.1.1	DOM4J
	Dozer 6.4.1	Apache 2.0
	GIN-GWT INjection 3.0.0	Apache 2.0
	Guava 28.1	Apache 2.0
	Guice 4.2.2	Apache 2.0
	Guice-assistedinject 4.2.2	Apache 2.0
	GWT Drag and Drop Library 3.3.4	Apache 2.0
	GWT Traction 1.6.0	Apache 2.0
	GWT Phonenumber 3.5.0.1	Apache 2.0
	ICU4J 63.1	ICU4J

Retail Product	Component	Licensing Information
	Jackson Annotations 2.9.9	Apache 2.0
	Jackson Core 2.9.9	Apache 2.0
	Jackson Databind 2.9.9.3	Apache 2.0
	Jackson jaxrs-base 2.9.9	Apache 2.0
	Jackson jaxrs-json-provider 2.9.9	Apache 2.0
	Jackson module-jaxb-annotations 2.9.9	Apache 2.0
	JavaPOS 1.14.2	JavaPOS
	JavaScriptExtension Toolkit (JET) 7.2.0	JET
	JDOM 2.0.6	JDOM
	Jetty 9.4.18.v20190429	Jetty
	JFreeChart 1.5.0	GNU LGPL Version 2.1
	JNA 5.4.0	Apache 2.0
	JSch 0.1.55	JSch
	Log4j 2.11.1	Apache 2.0
	MGWT 2.0.0	Apache 2.0
	Mina SSHD 2.2.0	MX4J
	PDFBox 2.0.16	Apache 2.0
	RXTX Comm 2.1-7r2	RXTX Comm
	SLF4J 1.7.26	SLF4J
	Spring Framework 5.1.4.RELEASE	Apache 2.0
	SpringWS Core 3.0.7	Apache 2.0
	Tomcat 9.0.19, 9.0.22	Apache 2.0
	Trident 1.5.00	Trident
	Velocity Engine 2.1	Apache 2.0
	ZXing 3.4.0	Apache 2.0
EFT Link	Ant 1.10.6	Apache 2.0
	Ant Installer beta 0.8-1	Apache 2.0
	JDOM 2.0.6	JDOM
	Log4j 2.11.1	Apache 2.0
Enterprise Inventory Cloud Service	JavaScript Extension Toolkit (JET) 13.1.0	JET
	jcl-over-slf4j 2.0.10	jcl-over-slf4j
	Logback-classic 1.3.6	logback-classic
	POI-ooxml 5.2.3	POI-OOXML
Store Operations Cloud Service	Cordova Device Plugin 2.1.0	Cordova Device Plugin
	Cordova Plugin File 8.0.0	Cordova Plugin File

Retail Product	Component	Licensing Information
	Cordova Plugin for Barcode Scanner 8.1.0	Cordova Plugin for Barcode Scanner

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Retail Technology Group Licensing Information

This chapter provides the following licensing information for Store Operations.

- Description of products.
- Prerequisite products.
- Entitled products and restricted use licenses.

Prerequisite products, entitled products, and restricted use licenses do not apply to Oracle Retail Cloud products.

Legal Licensing Information

The following table lists the legal licensing information for Retail Technology Group.

Retail Solution Unit	Product	Licensing Information
Retail Technology Group	Oracle Retail Integration Bus and Oracle Retail Integration Bus Cloud Service	Product Editions and Permitted Features Common integration patterns used for interoperability of the applications include asynchronous messaging (fire and forget), request response, and bulk data transfer. In Oracle Retail, Retail Integration Bus (RIB) is used for asynchronous messaging and ODI is used for bulk data transfer. Entitled Products and Restricted Use Licenses NA

Open Source Software or Other Separately Licensed Software

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Retail Product	Component	Licensing Information
Oracle Retail Integration Bus and Oracle Retail Integration Cloud Service	Ant 1.10.6	Apache 2.0
	ASM 7.1	ASM
	Classmate 1.5.0	Apache 2.0
	Commons Beanutils 1.9.3	Apache 2.0

Retail Product	Component	Licensing Information
	Commons CLI 1.4	Apache 2.0
	Commons Collections 4.4	Apache 2.0
	Commons CSV 1.6	Apache 2.0
	Commons FileUpload 1.4	Apache 2.0
	Commons IO 2.6	Apache 2.0
	Commons Lang 3.9	Apache 2.0
	Commons Logging 1.2-0548efb	Apache 2.0
	Dozer 6.5.0	Apache 2.0
	Groovy 2.5.8	Apache 2.0
	Guava 28	Apache 2.0
	JavaScript Extension Toolkit (JET) 7.1.0	JET
	Javassist 3.25.0-GA	Apache 2.0
	Log4j 2.12.1	Apache 2.0
	Quartz Job Scheduler 2.3.1	Quartz Job Scheduler
	SLF4J 1.7.28	SLF4J
	Spring Framework 5.1.9	Apache 2.0
	Velocity Engine 2.1	Apache 2.0

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Supply Chain Licensing Information

This chapter provides the following licensing information for Supply Chain.

- Description of products.
- Prerequisite products.
- Entitled products and restricted use licenses.

Prerequisite products, entitled products, and restricted use licenses do not apply to Oracle Retail Cloud products.

Legal Licensing Information

The following table lists the legal licensing information for Store Operations.

Retail Solution Unit	Product	Licensing Information
Supply Chain	Brand Compliance Management Cloud Service	<p>Product Editions and Permitted Features</p> <p>Oracle Retail Brand Compliance Management Cloud Service is an application designed to meet all aspects of sourcing, developing, and protecting retailer brands. The application provides solutions for product development, compliance, quality, and traceability. It is designed specifically for retail, food service, and manufacturing businesses to develop and protect their brands, manage their suppliers, and ensure full end-to-end product lifecycle management.</p> <p>Oracle Retail Brand Compliance Management Cloud Service is composed of the following modules:</p> <ul style="list-style-type: none">• Library enables the issue, receipt, and acceptance of policies, guidelines, and key working documents. Project supports the development of project briefs, plans, and workflow management.• Product supports the development of products and production specifications.• Supplier enables the identification, selection, and approval of suppliers. <p>Entitled Products and Restricted Use Licenses</p> <p>NA</p>

Open Source Software or Other Separately Licensed Software

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found in the included documentation or README files of the individual third party open source software.

Retail Product	Component	Licensing Information
Brand Compliance Management Cloud Service	Echo3 3.1.0	Mozilla Public License Version 1.1
	echo3extras 3.1.0	Mozilla Public License Version 1.1
	Hibernate 4.3.11	Hibernate
	FamFamFam Silk Icons 1.3	FAMFAMFAM Silk Icons
	Tango Icon Theme 0.8.90	Tango Icon Theme
	Tiny MCE 6.7.0	MIT

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Merchandise Operations Management Licensing Information

This chapter provides the following licensing information for Store Operations.

- Description of products.
- Prerequisite products.
- Entitled products and restricted use licenses.

Prerequisite products, entitled products, and restricted use licenses do not apply to Oracle Retail Cloud products. Licenses declared for the on-premise products below also apply to the following corresponding SaaS Merchandising products: Oracle Retail Allocation Cloud Service, Oracle Retail Invoice Matching Cloud Service, Oracle Retail Pricing Cloud Service, and Oracle Retail Merchandising Foundation Cloud Service..

Legal Licensing Information

The following table lists the legal licensing information for Merchandise Operations Management.

Retail Solution Unit	Product	Licensing Information
MOM	Allocation	<p>Product Editions and Permitted Features</p> <p>A Retailer's most important asset is its inventory. Oracle Retail Allocation helps retailers determine the inventory requirements at the item, store, and week level using real time inventory information. The system calculates individual store need based on parameters you set - whether it's the characteristics of the product, the store, or the category. The result is an allocation tailored to each store's unique need.</p> <p>Oracle Retail Allocation allows you to allocate either in advance of the order's arrival or at the last minute to leverage real-time sales and inventory information. And when you do allocate, the system provides you the flexibility of basing your allocation on different methods such as: merchandise plans, sales history, corporate rule, or a demand forecast.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>NA</p>

Retail Solution Unit	Product	Licensing Information
MOM	Retail Invoice Matching	<p>Product Editions and Permitted Features</p> <p>Oracle Retail Invoice Matching (ReIM) supports the verification of merchandise invoice costs, quantities and taxes prior to payment. ReIM receives invoice data through Electronic Data Interchange (EDI), an Induction process, or from invoices manually entered through a group or single invoice entry facility. Invoice records are verified against associated purchase orders and receipts in an automated matching process.</p> <p>If invoices are matched to receipts within retailer defined tolerance at a summary, parent, or item level, they are evaluated for best payment terms and posted to a staging table. The staging table is interfaced with the retailer's accounts payable system, where payments are processed and corresponding accounting entries are posted.</p> <p>If invoices and receipts are not matched after a specified period of time, the auto-matching process flags the invoice with cost or quantity discrepancies. Users can then begin a manual identification of summary and detail-level matches or individually resolve item-level discrepancies. Discrepancies are resolved by applying reason codes based on a set of defined actions (for example, charge-back supplier) that determine the disposition of the discrepancies.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>NA</p>
MOM	Retail Merchandising System	<p>Product Editions and Permitted Features</p> <p>RMS is used to execute core merchandising activities, including merchandise management, inventory replenishment, purchasing, vendor management, and financial tracking. Oracle Retail Trade Management (RTM) is used to manage the import process, including automating the steps necessary to import goods, managing file exchanges with trading partners, and providing a central database of critical import order information.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>NA</p>
MOM	Retail Pricing	<p>Product Editions and Permitted Features</p> <p>Retail Pricing is a pricing and promotions execution system that provides the ability to define, maintain, and review price changes, clearances, and promotions. Retail Pricing capabilities range from simple item price changes at a single location to complex multi-buy promotions across zones.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>NA</p>

Retail Solution Unit	Product	Licensing Information
MOM	Retail Sales Audit	<p>Product Editions and Permitted Features</p> <p>In retail, the sales audit function describes the process of reviewing the Point-of-Sale (POS) and Order Management System (OMS) transaction data for accuracy. ReSA provides a simplified sales audit process while ensuring the integrity of audited data and smooth integration with other retail applications. The retail sales audit function also allows for balancing out cashiers, cash registers, or an entire store day. This process validates the totals from POS and OMS against the calculated totals of transactions. If these totals are not equal, you can report this variance as an over or short value.</p> <p>ReSA is a part of the Merchandise Operations Management (MOM) product group, which helps retailers to reduce shrinkage, reduce integration costs, improve internal control, increase productivity, and improve visibility to sales. Using real time inventory information, this system calculates need based on set parameters for any product, store or other category. It also manages foundation data, purchasing and cost, inventory, price, and financial processes.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>NA</p>

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Retail Product	Component	Licensing Information
Allocation	Ant 1.10.5	Apache 2.0
	Ant Contrib 1.0b3	Apache 1.1
	Ant Installer 0.8.0	Apache 2.0
	Commons Codec 1.10	Apache 2.0
	Commons CSV 1.5	Apache 2.0
	Commons Lang 3.9	Apache 2.0
	Commons Logging 1.2	Apache 2.0
	Commons Validator 1.6	Apache 2.0
	HttpComponents HttpClient 4.5.6	Apache 2.0
	HttpComponents Core 4.4.10	Apache 2.0
	XML Task 1.16	Apache 1.1

Retail Product	Component	Licensing Information
Retail Invoice Matching	Ant 1.10.5	Apache 2.0
	Ant Contrib 1.0b3	Apache 1.1
	Ant Installer 0.8.0	Apache 2.0
	Commons Codec 1.10	Apache 2.0
	Commons CSV 1.5	Apache 2.0
	Commons Lang 3.9	Apache 2.0
	Commons Logging 1.2	Apache 2.0
	Commons Validator 1.6	Apache 2.0
	HttpComponents HttpClient 4.5.6	Apache 2.0
	HttpComponents Core 4.4.10	Apache 2.0
	SODS 1.1.1	Apache 2.0
	XML Task 1.16	Apache 1.1
Retail Merchandising System	Ant 1.10.5	Apache 2.0
	Ant Contrib 1.0b3	Apache 1.1
	Ant Installer 0.8.0	Apache 2.0
	Commons CSV 1.5	Apache 2.0
	Commons Lang 3.9	Apache 2.0
	HttpComponents HttpClient 4.5.6, 4.5.9	Apache 2.0
	HttpComponents Core 4.4.11	Apache 2.0
	Jackson Annotations 2.9.8	Apache 2.0
	Jackson Core 2.9.8	Apache 2.0
	Jackson Databind 2.9.8	Apache 2.0
	POI 4.0.1	Apache 2.0
	XML Task 1.16	Apache 1.1
Retail Pricing	Ant 1.10.5	Apache 2.0
	Ant Contrib 1.0b3	Apache 1.1
	Ant Installer 0.8.0	Apache 2.0
	Commons Codec 1.10	Apache 2.0
	Commons CSV 1.5	Apache 2.0
	Commons IO 2.6	Apache 2.0
	Commons Lang 3.9	Apache 2.0
	Commons Logging 1.2	Apache 2.0
	Commons Validator 1.6	Apache 2.0
	HttpComponents HttpClient 4.5.6	Apache 2.0
	HttpComponents Core 4.4.10	Apache 2.0
	XML Task 1.16	Apache 1.1
Retail Sales Audit	Ant 1.10.5	Apache 2.0

Retail Product	Component	Licensing Information
	Ant Contrib 1.0b3	Apache 1.1
	Ant Installer 0.8.0	Apache 2.0
	HttpComponents HttpClient 4.5.9	Apache 2.0
	HttpComponents Core 4.4.11	Apache 2.0
	XML Task 1.16	Apache 1.1

6

Omnichannel Commerce Licensing Information

This chapter provides the following licensing information for Omnichannel Commerce.

- Description of products.
- Prerequisite products.
- Entitled products and restricted use licenses.

Prerequisite products, entitled products, and restricted use licenses do not apply to Oracle Retail Cloud products.

Legal Licensing Information

The following table lists the legal licensing information for Omnichannel Commerce.

Retail Solution Unit	Product	Licensing Information
Omnichannel Commerce	Customer Engagement	<p>Product Editions and Permitted Features</p> <p>Oracle Retail Customer Engagement is a comprehensive, direct-marketing application designed for today's fast-paced retail environment, and consists of the following services:</p> <ul style="list-style-type: none"> Customer Management and Segmentation Foundation: A required module that maintains and serves all customer-related information. In addition to managing core customer data, the service includes support for strategies that are based on in-store clienteling and gift registry. Campaign and Deal Management: Delivers promotional offers to transaction systems, drives execution, and performs analysis. It has a more operational focus and is considered complementary to solutions like Responsys or Eloqua, which are dedicated to orchestrating marketing communication campaigns. The service supports offer management, couponing, list targeting, and performance analysis. Loyalty and Awards: A leading points-based loyalty platform. It can be quickly configured to support program concepts from simple punch-card frequency programs to highly sophisticated programs involving a variety of earning opportunities, as well as recognition levels like gold, silver, and bronze. In addition to the management of points, the platform manages awards in the form of stored value or discounts on merchandise. Gift Cards: A highly evolved stored value solution. It features a sophisticated back-office user experience and supports global operations with cross-currency management and cross-channel delivery and fulfillment. <p>Entitled Products and Restricted Use Licenses NA</p>
Omnichannel Commerce	Order Broker	<p>Product Editions and Permitted Features</p> <p>Order Broker includes the following modules:</p> <ul style="list-style-type: none"> Routing Engine: Distributed order broker that determines inventory availability across the enterprise, and uses advanced business rules to select locations that can fulfill orders. Supplier Direct Fulfillment: Web-based vendor portal enabling vendors to share purchase orders and shipping information to simplify drop shipment Store Connect: Web portal that enables store associates to process and fulfill omnichannel orders. <p>Entitled Products and Restricted Use Licenses NA</p>

Retail Solution Unit	Product	Licensing Information
Omnichannel Commerce	Order Broker Cloud Service	<p>Product Editions and Permitted Features</p> <p>Order Broker Cloud Service includes the following modules:</p> <ul style="list-style-type: none"> • Routing Engine: Distributed order broker that determines inventory availability across the enterprise, and uses advanced business rules to select locations that can fulfill orders. • Supplier Direct Fulfillment: Web-based vendor portal enabling vendors to share purchase orders and shipping information to simplify drop shipment • Store Connect: Web portal that enables store associates to process and fulfill omnichannel orders. <p>Entitled Products and Restricted Use Licenses NA</p>
Omnichannel Commerce	Order Management System	<p>Product Editions and Permitted Features</p> <p>Order Management System offers a fully integrated suite of modules for managing all aspects of direct commerce transactions including order management, fulfillment, and customer service. The key benefits are:</p> <ul style="list-style-type: none"> • You can fulfill and service orders from multiple channels. • Workflow options can be used to streamline order handling and provide maximum productivity. • Both online and batch authorization is supported. • You can manage promotions for effectiveness. • Return and exchange processing supports return in store. • Customer appeasement capabilities are provided before and after shipment. <p>Entitled Products and Restricted Use Licenses NA</p>
Omnichannel Commerce	Order Management System Cloud Service	<p>Product Editions and Permitted Features</p> <p>Order Management System Cloud Service offers a fully integrated suite of modules for managing all aspects of direct commerce transactions including order management, fulfillment, and customer service. The key benefits are:</p> <ul style="list-style-type: none"> • You can fulfill and service orders from multiple channels. • Workflow options can be used to streamline order handling and provide maximum productivity. • Both online and batch authorization is supported. • You can manage promotions for effectiveness. • Return and exchange processing supports return in store. • Customer appeasement capabilities are provided before and after shipment. <p>Entitled Products and Restricted Use Licenses NA</p>

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Retail Product	Component	Licensing Information
Customer Engagement 19.0	Beanshell 2.0b6	Apache 2.0
	CDI-API 2.0.2	Apache 2.0
	Commons Beanutils 1.9.4	Apache 2.0
	Commons Codec 1.12	Apache 2.0
	Commons Collections 4.3	Apache 2.0
	Commons FileUpload 1.4	Apache 2.0
	Commons IO 2.6	Apache 2.0
	Commons Lang 3.9	Apache 2.0
	CSRF Guard 3.1	CSRF Guard
	Dozer 6.5.0	Apache 2.0
	Ehcache 2.10.6	Apache 2.0
	FreeMarker 2.3.29	Apache 2.0
	GIN-GWT Injection 2.1.2	Apache 2.0
	Google Web Toolkit SDK 2.8.2	Apache 2.0
	GSON 2.8.6	Apache 2.0
	Guava 27.1	Apache 2.0
	Hibernate ORM 5.4.13.Final	GNU LGPL Version 2.1
	HttpComponents Http Client 4.5.9	Apache 2.0
	HttpCore 4.4.11	Apache 2.0
	Jackson-Databind 2.10.2	Apache 2.0
	Jackson-JAXRS-JSON-Provider 2.10.2	Apache 2.0
	JavaScript Extension Toolkit JET 8.1.0	JET
	JCache Reference Implementation 1.1.1	Apache 2.0
	jsoup 1.12.1	MIT License
	Mina SSHD 2.4.0	Apache 2.0
	Objenesis 3.0.1	Apache 2.0
	OpenCSV 5.1	Apache 2.0

Retail Product	Component	Licensing Information
Order Broker	PDFBox 2.0.16	Apache 2.0
	Quartz Job Scheduler 2.3.2	Apache 2.0
	Reflections 0.9.12	Reflections
	RestFB 2.23.1	RestFB
	SLF4J 1.7.26	SLF4J
	Spring Framework 5.2.5	Apache 2.0
	Twitter4J 4.0.7	Apache 2.0
	Commons Codec 1.12	Apache 2.0
	Commons DBCP 2.6.0	Apache 2.0
	Commons FileUpload 1.4	Apache 2.0
	Commons IO 2.11	Apache 2.0
	Commons Lang 3.12.0	Apache 2.0
	Commons Logging 1.2-0a2317f	Apache 2.0
	DOM4J 2.1.3	DOM4J
	Freemarker 2.3.29	Apache 2.0
	Google Web Toolkit SDK 2.8.2	Apache 2.0
	GSON 2.9.0	Apache 2.0
	Hibernate ORM 5.4.4.Final	GNU LGPL Version 2.1
	Hibernate Validator 6.0.17.Final	Apache 2.0
	HttpComponents HttpClient 4.5.8	Apache 2.0
	HttpCore 4.4.11	Apache 2.0
	Jaxen 1.2.0	Jaxen
	Jersey-client 2.3.1	Jersey-client
	Joda-time 2.10.5	Apache 2.0
	Log4j-api 2.17.0	Apache 2.0
	Log4j-core 2.17.0	Apache 2.0
	OpenCSV 5	Apache 2.0
	Quartz Job Scheduler 2.3.2	Apache 2.0
	SLF4J 1.7.29	SLF4J
	StringTemplate 4.2	BSD License
Order Broker Cloud Service	Commons FileUpload 1.4-ce5ce15	Apache 2.0
	Commons IO 2.11.0	Apache 2.0
	Commons Lang 3.12.	Apache 2.0
	Commons Logging 1.2-f4fdec	Apache 2.0
	DOM4J 2.1.4	DOM4J
	Freemarker 2.3.32	Apache 2.0
	Google Web Toolkit SDK 2.8.2	Apache 2.0

Retail Product	Component	Licensing Information
Order Management System	GSON 2.9.1	Apache 2.0
	Hibernate ORM 5.6.15.Final	Hibernate ORM
	Hibernate Validator 6.2.5.Final	Hibernate Validator
	Jaxen 2.0.0	Jaxen
	Joda-time 2.12.0	Apache 2.0
	Log4j-api 2.20.0	Log4j-api
	Log4j-core 2.20.0	Log4j-core
	OpenCSV 5.7.1	OpenCSV
	Quartz Job Scheduler 2.3.2	Apache 2.0
	slf4j-api 2.0.7	slf4j-api
	SmartGWT 4.1-20200908	GNU LGPL Version 3
	StringTemplate 4.3.4	BSD License
	Commons Beansutils 1.9.4	Apache 2.0
	Commons FileUpload 1.4	Apache 2.0
	Commons Lang 3.10	Apache 2.0
	Commons Text 1.9	Apache 2.0
	FOP 2.4	Apache 2.0
	FreeMarker 2.3.30	Apache 2.0
	Google Web Toolkit SDK 2.8.2	Apache 2.0
	GSON 2.8.6	Apache 2.0
	Hibernate ORM 5.4.5.Final	GNU LGPL Version 2.1
	HttpComponents HttpClient 4.5.10	Apache 2.0
	JavaScript Extension Toolkit (JET) 8.3.0	JET
	LMAX Disruptor 3.4.2	Apache 2.0
	Log4J 2.12.1	Log4j
	Mina SSHD 2.3.0	Apache 2.0
	Quartz Job Scheduler 2.3.2	Apache 2.0
	SLF4J 1.7.28	SLF4J
	Xerces 2 Java 2.12.0	Apache 2.0
	XStream 1.4.12	XStream
Order Management System Cloud Service	Commons Beansutils 1.9.4	Apache 2.0
	Commons FileUpload 1.4	Apache 2.0
	Commons Lang 3.11	Apache 2.0
	Commons Text 1.9	Apache 2.0
	FOP 2.5	Apache 2.0
	FreeMarker 2.3.30	Apache 2.0
	Google Web Toolkit SDK 2.8.2	Apache 2.0

Retail Product	Component	Licensing Information
	GSON 2.8.6	Apache 2.0
	Hibernate ORM 5.4.22.Final	GNU LGPL Version 2.1
	HttpComponents HttpClient 4.5.13	Apache 2.0
	JavaScript Extension Toolkit (JET) 8.3.0	JET
	Log4J 2.13.3	Log4j
	Mina SSHD 2.3.0	Apache 2.0
	Quartz Job Scheduler 2.3.2	Apache 2.0
	SLF4J 1.7.30	SLF4J
	Xerces 2 Java 2.12.1	Apache 2.0
	XStream 1.4.12	XStream

7

Appendix A

The appendix contains the following licenses:

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Quartz has an optional dependency on c3p0 which is licensed under EPL 1.0 and LGPL 2.1.

Quartz has an optional dependency on mchange-commons-java (for c3p0) which is licensed under LGPL.

Quartz has an optional dependency on HikariCP (for c3p0) which is licensed under Apache License 2.0.

The Quartz distribution ZIP includes log4j which is licensed under Apache License 2.0.

The Quartz distribution ZIP includes slf4j-log4j12 which is licensed under an MIT license.

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ASM: a very small and fast Java bytecode manipulation framework

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Cache API

JSR-000107 JCACHE 2.9 Public Review - Updated Specification

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Specification: JSR-000107 Java(tm) Temporary Caching API Specification ("Specification")

Version: 2.9

Status: Public Review

Release: 8 August 2013

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extsprintf

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fast-json-parse

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fs.realpath

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npm-run-path

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Cordova Plugin for Barcode Scanner

phonegap-plugin-barcodescanner

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shelljs

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path-parse

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brace-expansion

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Cordova Plugin for Barcode Scanner

phonegap-plugin-barcodescanner

8.1.0

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<https://github.com/phonegap/phonegap-plugin-barcodescanner>

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nopt

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fs.realpath

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minimatch

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brace-expansion

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balanced-match

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concat-map

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path-is-absolute

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<https://github.com/eclipse-ee4j/metro-policy>

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addressing.xml Version: 2004/10 (n/a)

License: W3C

Project: <https://www.w3.org/Submission/ws-addressing/>

Source: <http://schemas.xmlsoap.org/ws/2004/08/addressing/>

ant-launcher (1.10.2)

License: Apache-2.0 AND SAX-PD AND W3C

Project: <https://ant.apache.org/>

Source: <http://central.maven.org/maven2/org/apache/ant/ant-launcher/1.10.2/ant-launcher-1.10.2-sources.jar>

Apache Ant (1.6)

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JUnit (4.12)

License: Eclipse Public License

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License: Apache-2.0

maven-plugin-annotations (3.5.1)

License: Apache-2.0

Project: <https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html>

Source: <https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations>

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mex.xsd Version: 2004/09 (n/a)

License: Oasis Style

Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>

Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>

plexus-utils (3.1.0)

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relaxng-datatype (1.0)

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stax2-api (4.1)

License: Pending

Project: <https://github.com/FasterXML/stax2-api>

Source: <http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar>

testng (6.14.2)

License: Apache-2.0 AND MIT

Project: <https://testng.org/doc/index.html>

Source: <https://github.com/cbeust/testng>

woodstox-core-asl (4.4.1)

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Project: <https://www.w3.org/2005/08/addressing/>

Source: <https://www.w3.org/2006/03/addressing/ws-addr.xsd>

wsat.xsd Version: 2004/10 (n/a)

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Project: <http://docs.oasis-open.org/ws-tx/wscor/2006/06>

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Source: <http://schemas.xmlsoap.org/ws/2005/02/rm/wsm.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wsm-policy.xsd>

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Project: <http://santuario.apache.org/>

Source: <https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar>

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Silk icon set 1.3

Mark James

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com.hazelcast.util.collection

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dom4j-1.6.1.jar - BA 54148

jandex-1.1.0.jar - BA 54098

xml-apis-1.0.b2 - BA 54150

From the download location <http://sourceforge.net/projects/hibernate/files/hibernate4/4.3.8.Final/hibernate-release-4.3.8.Final.zip/download>

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File: aclocal.m4 (only for ICU4C)

Section: pkg.m4 - Macros to locate and utilise pkg-config.

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* @author Ron Sigal

* @version \$Revision: 1.1 \$

*

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<artifactId>jakarta.xml.bind-api</artifactId>

<version>2.3.3</version>

Jackson-module-jaxb-annotations

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

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/*!

Knockout Fast Foreach v0.6.0 (2016-07-28T11:02:54.197Z)

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*/

/**

* webcomponents/custom-elements - v1.1.2

*

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/* This component is based on original code from:
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```

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```

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* Knockout JavaScript library v3.5.0

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expression-eval

<https://github.com/donmccurdy/expression-eval>

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jsep -

<https://github.com/soney/jsep>

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require-css

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Normalize.scss

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RequireJS i18n

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select2.js

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JS Signals <<http://millermedeiros.github.com/js-signals/>>

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RequireJS text

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RequireJS

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org.apache.tomcat:tomcat-jasper-el
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- * org.apache.tomcat:tomcat-api

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- * org.apache.tomcat:tomcat-util

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jackson-databind
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jakarta-json-api
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testng (6.14.2)

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service,
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NOTICE_Modifications:

Changes to original Implementation:

ADD methods:

Optional<IOException> getException()

to get the exception stored by ICSVWriter, AbstractCSVWriter or CSVWriter

void resetError()

to reset the exception stored by ICSVWriter, AbstractCSVWriter or CSVWriter

ADD Test-Cases:

getExceptionReturnsException()

getExceptionReturnsExceptionUsingPrintWriter()

resetException()

resetError()

to test the added methods

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"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>Sign the mobile application with the appropriate certificates, and deploy the Application Archive or Workspace into an Application Executable.</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).

Capability	Description
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.

POI-ooxml

org.apache.poi:poi-ooxml

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[1] <https://www.ecma-international.org/publications/standards/Ecma-376.htm>

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[3] <https://www.microsoft.com/openspecifications/en/us/programs/osp/default.aspx>

[4] <https://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent%20Declaration.pdf>

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spring-jdbc

spring-jms

spring-messaging

spring-orm

spring-oxm

spring-r2dbc

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spring-tx

spring-web

spring-webflux

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=====

Recursive fourth party dependency:

=====

1. org.springframework » spring-beans

A) org.springframework » spring-core

a) org.springframework » spring-jcl

=====separator=====

2. org.springframework » spring-core

A) org.springframework » spring-jcl

=====END=====

Spring-beans

org.springframework:spring-beans

spring-beans has following 4th party dependencies:

org.springframework:spring-core

org.springframework:spring-jcl

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Spring-context

org.springframework:spring-context

spring-context has following 4th party dependencies:

org.springframework:spring-aop

org.springframework:spring-beans

org.springframework:spring-core

org.springframework:spring-jcl

org.springframework:spring-expression

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=====

Recursive fourth party components:-

=====

1. org.springframework » spring-aop
- A) org.springframework » spring-beans
- a) org.springframework » spring-core
- *) org.springframework » spring-jcl
- B) org.springframework » spring-core
- a) org.springframework » spring-jcl

=====separator=====

2. org.springframework » spring-beans
- A) org.springframework » spring-core
- a) org.springframework » spring-jcl

=====separator=====

3. org.springframework » spring-core
- A) org.springframework » spring-jcl

=====separator=====

4. org.springframework » spring-expression
- A) org.springframework » spring-core
- a) org.springframework » spring-jcl

=====END=====

Spring-context-support

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=====

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=====

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A) org.springframework » spring-core

a) org.springframework » spring-jcl

=====separator=====

2. org.springframework » spring-context

A) org.springframework » spring-aop

a) org.springframework » spring-beans

*) org.springframework » spring-core

*) org.springframework » spring-jcl

b) org.springframework » spring-core

*) org.springframework » spring-jcl

=====separator=====

B) org.springframework » spring-beans

a) org.springframework » spring-core

*) org.springframework » spring-jcl

=====separator=====

C) org.springframework » spring-core

a) org.springframework » spring-jcl

=====separator=====

D) org.springframework » spring-expression

a) org.springframework » spring-core

*) org.springframework » spring-jcl

=====separator=====

3. org.springframework » spring-core

A) org.springframework » spring-jcl

=====END=====

Spring-core

org.springframework:spring-core

spring-core has following 4th party dependencies:

org.springframework:spring-jcl

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Spring-expression

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=====

Recursive fourth party components:

1. org.springframework » spring-core

2. org.springframework » spring-jcl

=====END=====

Spring-jcl

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*/

No 4th party dependency.

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Spring-jdbc

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org.springframework » spring-beans
org.springframework » spring-core
org.springframework » spring-tx

Spring-test

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=====

org.springframework » spring-beans Apache 2.0

org.springframework » spring-core Apache 2.0

org.springframework » spring-jcl Apache 2.0

Spring-tx

Top level component:

org.springframework:spring-tx

Dependencies:

org.springframework:spring-beans

org.springframework:spring-core

=====

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=====

Spring-web

org.springframework:spring-web

spring-web has following 4th party dependencies:

org.springframework:spring-beans

org.springframework:spring-core

org.springframework:spring-jcl

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=====
Recursive fourth party components:-

=====
1. org.springframework » spring-aop

A) org.springframework » spring-beans

a) org.springframework » spring-core

*) org.springframework » spring-jcl

=====
B) org.springframework » spring-core

a) org.springframework » spring-jcl

=====separator=====

2. org.springframework » spring-beans

A) org.springframework » spring-core

a) org.springframework » spring-jcl

=====separator=====

3. org.springframework » spring-context

A) org.springframework » spring-aop

a) org.springframework » spring-beans

*) org.springframework » spring-core

*) org.springframework » spring-jcl

b) org.springframework » spring-core

*) org.springframework » spring-jcl

=====

B) org.springframework » spring-beans

a) org.springframework » spring-core

*) org.springframework » spring-jcl

C) org.springframework » spring-core

*) org.springframework » spring-jcl

D) org.springframework » spring-expression

a) org.springframework » spring-core

*) org.springframework » spring-jcl

=====separator=====

4. org.springframework » spring-core

A) org.springframework » spring-jcl

=====separator=====

5. org.springframework » spring-expression

A) org.springframework » spring-core

a) org.springframework » spring-jcl

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6. org.springframework » spring-web

A) org.springframework » spring-beans

a) org.springframework » spring-core

*) org.springframework » spring-jcl

B) org.springframework » spring-core

a) org.springframework » spring-jcl

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Spring Framework

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Top level component - Spring Framework 5.3.23

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Modules

spring-aop
spring-aspects
spring-beans
spring-context-indexer
spring-context-support
spring-context
spring-core
spring-expression
spring-instrument
spring-jcl
spring-jdbc
spring-jms
spring-messaging

spring-orm
spring-oxm
spring-r2dbc
spring-test
spring-tx
spring-web
spring-webflux
spring-webmvc
spring-websocket

=====

4th party dependencies

=====

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Spring Modules
```

```
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```

```
spring-core
spring-aspects
spring-beans
spring-context
spring-context-indexer
spring-expression
spring-jcl
spring-jdbc
spring-jms
spring-messaging
spring-oxm
spring-tx
spring-web
spring-webmvc
spring-aop
spring-context-support
spring-orm
spring-instrument
```

```
=====
=====
Fourth party dependency
```

```
=====
=====
aspectjweaver (EPL 2.0)
```

```
-----
```

```
/* *****
```

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Initial authors:

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