

Oracle Financial Services Analytical Applications

Modern Risk and Finance

Licensing Information User Manual

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OFSAA MRF Licensing Information User Manual

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Document Control

Version Number	Revision Date	Change Log
1.0	June 2019	First release
2.0	July 2019	Updated RUL text for AML/Fraud
3.0	July 2019	Updated information for Balance Sheet Planning and Profitability Pack
4.0	July 2019	Updated information for Liquidity Risk Solution
5.0	August 2019	Updated information for Adaptive Intelligence Foundation for Anti Money Laundering
6.0	August 2020	Added information for Oracle Financial Services Model Management and Governance
7.0	September 2020	Updated Chapter Restricted Use Licenses, with information for Financial Services Trade-Based Anti Money Laundering Enterprise Edition
8.0	November 2020	Updated versions for POI, Jackson, Jackson databind, jQuery, Log4J
9.0	October 2021	Removed licensing information for FCCM products.
10.0	August 2022	Updated the information for Oracle Financial Services Advanced Analytical Applications Infrastructure and Oracle Financial Services Data Foundation Pack.
11.0	April 2023	Added information for Oracle JET
12.0	July 2023	Added information for July CPU.
13.0	January 2024	Added information for January CPU
14.0	July 2024	Added information for July CPU.
15.0	January 2025	Added information for January2025 CPU.
16.0	February 2025	Removed some products wrongly in this Release version as their terminal release on 8.0 major line was Release 8.0.7. Corrected Third parties list for few products.

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1 **Licensing Information**

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2 Product Family - Platform

2.1 Oracle Financial Services Advanced Analytical Applications Infrastructure and Oracle Financial Services Analytical Application Infrastructure Extension Pack

This section includes licensing information for OFSAAAI and OFS AAIEP.

Products	Licensing Description
<p>Each Oracle Financial Services Advanced Analytical Applications Infrastructure (OFS AAAI) application pack includes the following products:</p> <ul style="list-style-type: none"> ▪ Analytical Applications Infrastructure ▪ Big Data Processing ▪ Enterprise Modeling ▪ Inline Processing Engine <p>Each Oracle Financial Services Analytical Application Infrastructure Extension Pack includes the following products:</p> <ul style="list-style-type: none"> • Analytical Applications Infrastructure • Extension Pack 	<ul style="list-style-type: none"> ▪ Prerequisites <ul style="list-style-type: none"> ▪ Operating System <ul style="list-style-type: none"> ▪ Oracle Linux / Red Hat Enterprise Linux (x86-64) ▪ Oracle Solaris(SPARC) ▪ IBM AIX (PowerPC) ▪ Shell ▪ Java Runtime Environment <ul style="list-style-type: none"> ▪ Oracle Linux / Red Hat Enterprise Linux ▪ Oracle Solaris ▪ IBM AIX ▪ Oracle Database Server and Client ▪ OLAP <ul style="list-style-type: none"> ▪ Oracle Hyperion Essbase ▪ Oracle OLAP ▪ Web Server/ Web Application Server <ul style="list-style-type: none"> ▪ WebLogic ▪ WebSphere ▪ Apache Tomcat ▪ Oracle Labs Data Studio ▪ Oracle Stack Libraries used in the application pack <ul style="list-style-type: none"> ▪ None ▪ Third party software tools used in the application pack <ul style="list-style-type: none"> ▪ Apache <ul style="list-style-type: none"> ○ accessors-smart ○ activemq-client ○ Commons Compress ○ batik-transcoder ○ Commons Codec ○ Commons Collections ○ Apache Commons DBCP ○ Commons BCEL ○ Commons CSV

Products	Licensing Description
	<ul style="list-style-type: none">○ Commons FileUpload○ Commons IO○ Commons Lang○ Commons Logging○ Commons Pool○ Commons Text○ curvesapi○ D3○ EclipseLink○ fop-core○ FreeMarker○ GSON○ Guava○ httpclient5○ httpcore5○ httpcore5-h2○ Jackson Annotations○ Jackson Core○ Jackson Databind○ jackson-jaxrs-base○ jackson-jaxrs-json-provider○ jackson-module-jaxb-annotations○ Javassist○ jjwt-api○ json-smart○ json-path○ kafka-clients○ Log4j-API○ log4j-core○ log4j-web○ metrics-core○ Mina SSHD-core○ Mina SSHD-common○ Mina SSHD-sftp○ moment-timezone○ provide-core SRU2023○ RequireJS○ Saxon-HE○ sizzle○ slf4j-api○ slf4j-simple

Products	Licensing Description
	<ul style="list-style-type: none"> ○ Spring Framework ○ spring-integration-kafka ○ Underscore.js ○ Xalan Java ○ Xerces2 Java ○ XMLBeans ○ XML Resolver ○ XML Security for Java ○ xmlgraphics-commons ▪ 2-Clause BSD <ul style="list-style-type: none"> ○ esapi (Enterprise Security API (ESAPI)) ○ stax2-api ▪ BSD <ul style="list-style-type: none"> ○ JSch ▪ 3-Clause BSD <ul style="list-style-type: none"> ○ OWASP Java Encoder (OWASP Java Encoder Project) ▪ MIT <ul style="list-style-type: none"> ○ jQuery ○ jQuery UI

2.2 Oracle Financial Services Model Management and Governance

Products	Licensing Description
<p>Each Oracle Financial Services Model Management and Governance (OFS MMG) application includes the following products:</p> <ul style="list-style-type: none"> ▪ Oracle Financial Services Model Management and Governance 	<ul style="list-style-type: none"> ▪ Prerequisites ▪ Operating System <ul style="list-style-type: none"> ▪ Oracle Linux / Red Hat Enterprise Linux (x86-64) ▪ Oracle Solaris(SPARC) ▪ IBM AIX (PowerPC) ▪ Shell ▪ Java Runtime Environment <ul style="list-style-type: none"> ▪ Oracle Linux / Red Hat Enterprise Linux ▪ Oracle Solaris ▪ IBM AIX ▪ Oracle Database Server and Client ▪ OLAP <ul style="list-style-type: none"> ▪ Oracle Hyperion Essbase ▪ Oracle OLAP ▪ Web Server/ Web Application Server

Products	Licensing Description
	<ul style="list-style-type: none">▪ WebLogic▪ WebSphere▪ Apache Tomcat▪ Oracle Labs Data Studio▪ Oracle Stack Libraries used in the application pack<ul style="list-style-type: none">▪ None▪ Third party software tools used in the application pack<ul style="list-style-type: none">▪ None

3 Product Family - Risk and Finance

3.1 Oracle Financial Services Balance Sheet Planning Pack

Products	Licensing Description
<p>Each Oracle Financial Services Balance Sheet Planning (OFS BSP) application pack includes the following product:</p> <ul style="list-style-type: none"> Oracle Financial Services Balance Sheet Planning (OFS BSP) 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System <ul style="list-style-type: none"> Oracle Linux / Red Hat Enterprise Linux (x86-64) Oracle Solaris(SPARC) IBM AIX (PowerPC) Java Runtime Environment <ul style="list-style-type: none"> Oracle Linux / Red Hat Enterprise Linux Oracle Solaris IBM AIX Oracle Database Server and Client Web Server/ Web Application Server <ul style="list-style-type: none"> WebLogic WebSphere Apache Tomcat Third party software tools used in the application pack None

3.2 Oracle Insurance International Financial Reporting Standards 17 Analyzer Pack

Products	Licensing Description
<p>Each Insurance IFRS 17 Analyzer Application Pack (OFS IFRS) application pack includes the following product:</p> <ul style="list-style-type: none"> Insurance IFRS 17 Analyzer 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack None

3.3 Oracle Financial Services International Financial Reporting Standards Pack

Products	Licensing Description
<p>Each Oracle Financial Services International Financial Reporting Standards (OFS IFRS) application pack includes the following products:</p> <ul style="list-style-type: none">▪ Oracle Financial Services Loan Loss Forecasting and Provisioning▪ Oracle Financial Services Hedge Management and IFRS Valuations	<ul style="list-style-type: none">▪ Prerequisites<ul style="list-style-type: none">▪ Operating System▪ Java Runtime Environment▪ Oracle Database Server and Client▪ OLAP▪ Web Server/ Web Application Server▪ Desktop Requirements▪ Directory Services▪ Third party software tools used in the application pack▪ None

3.4 Oracle Financial Services Liquidity Risk Solution Pack

Products	Licensing Description
<p>Oracle Financial Services Liquidity Risk Solution (OFS LRS) application pack includes the following products:</p> <ul style="list-style-type: none"> Oracle Financial Services Liquidity Risk Measurement and Management (OFS LRMM) Oracle Financial Services Liquidity Risk Regulatory Calculations for US Federal Reserve (OFS LRRCUSFR) Oracle Financial Services Liquidity Risk Regulatory Calculations for Reserve Bank of India (OFS LRRCRBI) Oracle Financial Services Liquidity Risk Regulatory Calculations for European Banking Authority (OFS LRRCCEBA) Oracle Financial Services Liquidity Risk Regulatory Calculations for Bank of Thailand (OFS LRRCBOT) Oracle Financial Services Liquidity Risk Regulatory Calculations for Bank Negara Malaysia (OFS LRRCBNM) Oracle Financial Services Liquidity Risk Regulatory Calculations for Monetary Authority of Singapore (OFS LRRCMAS) Oracle Financial Services Liquidity Risk Regulatory Calculations for Hong Kong Monetary Authority (OFS LRCHKMA) Oracle Financial Services Deposit Insurance Calculations for Liquidity Risk Management (OFS DICLRM) 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack <ul style="list-style-type: none"> None

3.5 Oracle Financial Services Market Risk Measurement and Management Application Pack

Products	Licensing Description
Each Oracle Financial Services Market Risk Measurement and Management (OFS MRMM)	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System

Products	Licensing Description
<p>applications pack includes the following product:</p> <ul style="list-style-type: none">▪ Oracle Financial Services Market Risk Measurement and Management	<ul style="list-style-type: none">▪ Java Runtime Environment▪ Oracle Database Server and Client▪ OLAP▪ Web Server/ Web Application Server▪ Desktop Requirements▪ Directory Services▪ Third party software tools used in the application pack▪ CAS

4 Product Family - Data Management

4.1 Oracle Financial Services Data Foundation Pack

Products	Licensing Description
<p>Each Oracle Financial Services Data Foundation (OFSDF) application pack includes the following product:</p> <ul style="list-style-type: none"> Oracle Financial Services Data Foundation 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack <ul style="list-style-type: none"> None

4.2 Oracle Data Integrator

Product	Licensing Description
Oracle Data Integrator	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System <ul style="list-style-type: none"> Oracle Linux / Red Hat Enterprise Linux (x86-64) Java Runtime Environment Oracle Database Server and Client Web Server/ Web Application Server <ul style="list-style-type: none"> Oracle Weblogic (Recommended) Apache Tomcat Third party software tools used in the application pack <ul style="list-style-type: none"> activation aopalliance bpm-infra bsf bsh com-jcraft-jsch commons-beanutils commons-codec commons-collections commons-discovery

Product	Licensing Description
	<ul style="list-style-type: none">commons-httpclientcommons-iocommons-langcommons-logging-1.2.jarcommons-netcommons-vfscommons-vfsconnectorcplddmseclipselink-dbwsutilseclipselinkenterprise_data_qualityess_es_serveress_japigroovy-allgsonHspJShsqldbidentitystoreidentityutilsjackson-core-asljackson-mapper-asljakarta-orojavax.persistence-srcjavax.persistencejavax.validationjavalutionjmsjps-apijschjson-pathjythonjzliblog4jmimepullodi-coreodi-sapodi-wls-template-genodihapp_commonodihapp_essbaseodihapp_planning

Product	Licensing Description
	<ul style="list-style-type: none"> ▪ odi_hfm ▪ ogg_jmx_interface ▪ ojdbc ▪ ojdl ▪ oracle.odi-jaxrsri ▪ oracle.odi-sdk-jse ▪ oracle.ucp ▪ org.codehaus.jackson.jackson-core-asl ▪ org.codehaus.jackson.jackson-mapper-asl ▪ org.eclipse.jgit ▪ org.jvnet.mimepull.mimepull ▪ pop ▪ sapjco ▪ sapjco3 ▪ slf4j-api ▪ spring-aop ▪ spring-beans ▪ spring-context-support ▪ spring-context ▪ spring-core ▪ spring-dao ▪ spring-expression ▪ spring-instrument-tomcat ▪ spring-instrument ▪ spring-jdbc ▪ spring-jms ▪ spring-jmx ▪ spring-jpa ▪ spring-orm ▪ spring-oxm ▪ spring-struts ▪ spring-test ▪ spring-tx ▪ spring-web ▪ spring-webmvc-portlet ▪ spring-webmvc ▪ staxon ▪ staxon-jackson ▪ svnkit ▪ trilead-ssh ▪ trove

Product	Licensing Description
	<ul style="list-style-type: none"> ▪ wls-api ▪ woodstox ▪ XmlSchema

4.3 Oracle Financial Services Data Management Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Data Management (OFS DM) Application Pack includes the following applications:</p> <ul style="list-style-type: none"> ▪ Oracle Financial Services Reconciliation Framework ▪ Oracle Financial Services Data Governance for US Regulatory Reporting ▪ Oracle Financial Services Data Governance for European Central Reporting 	<ul style="list-style-type: none"> ▪ Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application Server ▪ Desktop Requirements ▪ Directory Services ▪ Third party software tools used in the application pack ▪ None

5 Product Family - Regulatory Compliance

5.1 Oracle Financial Services Capital Adequacy Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Capital Adequacy (OFS CAPADQ) application pack includes the following products:</p> <ul style="list-style-type: none"> Oracle Financial Services Economic Capital Advanced Oracle Financial Services Basel Regulatory Capital Basic Oracle Financial Services Basel Regulatory Capital Internal Ratings Based Approach Oracle Financial Services Basel Regulatory Capital Analytics Oracle Financial Services Operational Risk Economic Capital Oracle Financial Services Retail Portfolio Risk Models and Pooling 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack None

5.2 Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank (OFS AGILE RP DNB) application pack includes the following product:</p> <ul style="list-style-type: none"> Oracle Financial Services AgileREPORTER Application 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Financial Services Data Foundation 8.0.8 Application Pack Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack <ul style="list-style-type: none"> Lombard Risk Reporting Portal

5.3 Oracle Financial Services Regulatory Reporting for European Banking Authority

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for European Banking Authority (OFS AGILE RP EBA) application pack includes the following product:</p> <ul style="list-style-type: none"> Oracle Financial Services AgileREPORTER Application 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Financial Services Data Foundation 8.0.8 Application Pack Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack <ul style="list-style-type: none"> Lombard Risk Reporting Portal

5.4 Oracle Financial Services Regulatory Reporting for European Banking Authority – Lombard Risk Integration Pack

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for European Banking Authority – Lombard Risk Integration Pack (OFS REG REP EBA) application pack includes the following product:</p> <ul style="list-style-type: none"> Oracle Financial Services Regulatory Reporting for European Banking Authority (OFS AGILE RP EBA) 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Financial Services Data Foundation 8.0.8 Application Pack Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack <ul style="list-style-type: none"> Lombard Risk Reporting Portal

5.5 Oracle Financial Services Regulatory Reporting for Reserve Bank of India

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for Reserve Bank of India (OFS AGILE RP RBI) application pack includes the following product:</p> <ul style="list-style-type: none"> Oracle Financial Services AgileREPORTER Application 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Financial Services Data Foundation 8.0.8 Application Pack Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack <ul style="list-style-type: none"> Lombard Risk Reporting Portal

5.6 Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack (OFS REG REP RBI) application pack includes the following product:</p> <ul style="list-style-type: none"> Oracle Financial Services Regulatory Reporting for Reserve Bank of India (OFS AGILE RP RBI) 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Financial Services Data Foundation 8.0.8 Application Pack Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack <ul style="list-style-type: none"> Lombard Risk Reporting Portal

5.7 Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack (OFS REG REP US FED) application pack includes the following product:</p> <ul style="list-style-type: none"> Oracle Financial Services Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED) 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Financial Services Data Foundation 8.0.8 Application Pack Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack <ul style="list-style-type: none"> Lombard Risk Reporting Portal

5.8 Oracle Financial Services Regulatory Reporting for US Federal Reserve

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED) application pack includes the following product:</p> <ul style="list-style-type: none"> Oracle Financial Services AgileREPORTER Application 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Financial Services Data Foundation 8.0.8 Application Pack Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack <ul style="list-style-type: none"> Lombard Risk Reporting Portal

5.9

Oracle Financial Services Regulatory Reporting for US Treasury

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for US Treasury (OFS AGILE RP US Treasury) application pack includes the following product:</p> <ul style="list-style-type: none">Oracle Financial Services AgileREPORTER Application	<ul style="list-style-type: none">Prerequisites<ul style="list-style-type: none">Operating SystemJava Runtime EnvironmentOracle Financial Services Data Foundation 8.0.8 Application PackOracle Database Server and ClientOLAPWeb Server/ Web Application ServerDesktop RequirementsDirectory ServicesThird party software tools used in the application pack<ul style="list-style-type: none">Lombard Risk Reporting Portal

5.10 Oracle Financial Services Regulatory Reporting for US Treasury – Lombard Risk Integration Pack

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for US Treasury – Lombard Risk Integration Pack (OFS REG REP US Treasury) includes the following product:</p> <ul style="list-style-type: none"> Oracle Financial Services Regulatory Reporting for US Treasury (OFS AGILE RP US Treasury) 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Financial Services Data Foundation 8.0.8 Application Pack Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack Lombard Risk Reporting Portal

5.11 Oracle Financial Services AgileREPORTER Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services AgileREPORTER (OFS AgileREPORTER) application pack includes the following product:</p> <ul style="list-style-type: none"> Lombard Risk Reporting Portal 	<ul style="list-style-type: none"> Prerequisites <ul style="list-style-type: none"> Operating System Java Runtime Environment Oracle Financial Services Data Foundation 8.0.8 Application Pack Oracle Database Server and Client OLAP Web Server/ Web Application Server Desktop Requirements Directory Services Third party software tools used in the application pack Lombard Risk Reporting Portal

6 Product Family - Customer Insight

6.1 Oracle Financial Services Customer Analytics Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Customer Analytics (OFS CA) application pack includes the following product:</p> <ul style="list-style-type: none"> Retail Customer Analytics 	<ul style="list-style-type: none"> Prerequisites Operating System <ul style="list-style-type: none"> Oracle Linux / Red Hat Enterprise Linux (x86-64) Oracle Solaris(SPARC) IBM AIX (PowerPC) Oracle Solaris v5.11 Java Runtime Environment <ul style="list-style-type: none"> Oracle Linux / Red Hat Enterprise Linux Oracle Solaris IBM AIX Oracle Database Server and Client OLAP <ul style="list-style-type: none"> Oracle Hyperion Essbase Oracle OLAP Web Server/Web Application Server Oracle R Advanced Analytics for Hadoop <ul style="list-style-type: none"> Oracle Loader For Hadoop (OLH) v 3.2 Third party software tools used in the application pack <ul style="list-style-type: none"> None

7 **Product Family – Insurance**

7.1 **Oracle Insurance Data Foundation Pack**

Products	Licensing Description
Each Oracle Insurance Data Foundation (OIDF) applications pack includes the following product: <ul style="list-style-type: none">▪ Oracle Insurance Data Foundation	<ul style="list-style-type: none">▪ Prerequisites<ul style="list-style-type: none">▪ Operating System▪ Java Runtime Environment▪ Oracle Database Server and Client▪ OLAP▪ Web Server/ Web Application Server▪ Desktop Requirements▪ Directory Services▪ Third party software tools used in the application pack<ul style="list-style-type: none">▪ None

8 Third-Party Notices

The open source software's used in the OFSAA Modern Risk and Finance application packs are listed in the following table.

8.1 Commercial Software

Commercial software used in the OFSAA Modern Risk and Finance application packs are identified in the following table with the following license notes, restrictions, and disclaimers.

Commercial software products or components distributed in the OFSAA Modern Risk and Finance application packs are identified in the following table along with the applicable licensing information.

Provider	Component(s)	Functionality	Licensing Information
Numerix LLC	CAS	Third party library of market risk models and methods	For a copy of the license, see Numerix LLC

8.2 Open Source Software

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Version 2, June 1991

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lie

<https://github.com/calvinmetcalf/lie/releases/tag/v3.3.0>

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immediate

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set-immediate-shim

<https://github.com/sindresorhus/set-immediate-shim>

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readable-stream

<https://github.com/nodejs/readable-stream>

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inherits

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string_decoder

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safe-buffer

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core-util-is

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process-nexttick-args
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Chai - v4.2.0

<https://github.com/chaijs/chai>

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expression-eval - v2.0.0

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

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jsep - v0.3.4

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

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

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proj4js - v2.5.0

<http://proj4js.org/>

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require-css - v0.1.10

<https://github.com/guybedford/require-css>

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Hammer.JS - v2.0.8 - 2016-04-22

<http://hammerjs.github.io/>

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Normalize.scss

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RequireJS i18n 2.0.2

<http://github.com/requirejs/i18n> for details

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jsTree 1.0-rc3 <http://jstree.com/>

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select2.js

<https://github.com/select2/select2>

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jQuery UI - v1.12.1 - 2015-03-18

<http://jqueryui.com>

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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jQuery JavaScript Library v3.6.0

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

Author: Miller Medeiros

Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)

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RequireJS text 2.0.15

<http://github.com/requirejs/text>

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RequireJS 2.3.6

<http://github.com/jrburke/requirejs>

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Knockout JavaScript library v3.5.1

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Preact - v10.5.13

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Modules

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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

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4th party dependencies

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aspectjweaver (EPL 2.0)

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/* *****
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* *****/
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Modules

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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

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4th party dependencies

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aspectjweaver (EPL 2.0)

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9.23 Ryan Niemeyer, Technology: knockout-postbox

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