

**Oracle Financial Services Analytical
Applications (OFSAA)**

Modern Risk and Finance (MRF)

Licensing Information User Manual

Release 8.1.2.0.0

June 2022

F39907-01

ORACLE
Financial Services

OFSAA MRF Licensing Information User Manual

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Document Control

Version Number	Revision Date	Change Log
12.0	January 2024	Added information for January 2024 CPU
11.0	July 2022	Added information for July 2023 CPU.
10.0	April 2023	Added information for Oracle JET.
9.0	September 2022	Added the entry for OFS CRA.
8.0	August 2022	Added the entry for OFS LRS.
7.0	June 2022	Added the entry for OFSA AAI 8.1.2.1.0 ML Library upgrades.
6.0	May 2022	Added the entry for OFS CAP.
5.0	April 2022	Added the entries for OFS AGILE RP EBA, OIP, OFS DIH, and OFS REG REP APME.
4.0	February 2022	Added the entries for OFS MRMM and OFS PA.
3.0	January 2022	Added the entries for OFS ALM, OFS PFT, OFS FTP, OFS BSP, OFS CA, and OIAA.
2.0	December 2021	Added the entries for OILM, OFSDF, and OIDF.
1.0	December 2021	This is the first release of the OFSAA LIUM v8.1.2.0.0

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1 Licensing Information

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2 Product Family – Platform

This chapter includes licensing information for:

- [OFS Advanced Analytical Applications Infrastructure \(OFS AAAI\) and Oracle Financial Services Analytical Application Infrastructure Extension Pack \(OFS AAIEP\)](#)
- [Oracle Financial Services Model Management and Governance](#)

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.

Table 1: 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 or Red Hat Enterprise Linux (x86-64) — Oracle Solaris (SPARC) ○ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP <ul style="list-style-type: none"> — Oracle Hyperion Essbase ○ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat • 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 2.0 <ul style="list-style-type: none"> — accessors-smart 2.4.11 — Apache Activemq 5.18.3 — Apache Ant 1.10.11 — Apache Commons Compress 1.24.0 — Apache FOP 2.3 — Apache POI 4.1.2 — Apache Santuario XMLSecurity for Java 2.2.6 — batik-transcoder 1.17

Products	Licensing Description
	<ul style="list-style-type: none"> — commons-beanutils 1.9.4 — commons-codec 1.14 — commons-collections 4.4 — commons csv 1.8.0 — commons-dbc 2.7.0 — commons-fileupload 1.4 — commons-io 2.8.0 — commons-compress 1.21 — commons-lang 3.11 — commons-logging 1.2-0548efb — commons-pool 2.8.1 — commons-vfs 2.6.0 — FreeMarker 2.3.32 — Guava 2.29.0 — Hadoop 3.1.1-1 — Hive 3.1.1 — jackson-databind 2.11.3 — JWT 0.11.1 — jwt-api 0.12.3 — jwt-impl 0.12.3 — jwt-jackson 0.12.3 — joda-time 2.10.1 — json-smart 2.4.11 — json-path 2.8.0 — jzip 3.10.1 — jzip.min.js 3.10.1 — kafka-clients-3.1.0 — Log4J 1.2.17-16 — Log4J 2.17.1 — mousetrap 1.6.3 — open-saml-saml-impl 3.4.5POI 4.1.2 — Scala 2.13.0 — Spark 2.4.3 — Spring Framework 5.3.27 — spring-kafka 1.2.0spring-xml-3.0.10.RELEASE — sshd-common 2.9.2 — sshd-core 2.9.2 — sshd-sftp 2.9.2 — jarspring-ws-core-3.0.10.RELEASE.jar — quartz-jobs v2.3.2-rc1 — spring-ws-security-3.0.10.RELEASE.jar — sqoop 1.4.7

Products	Licensing Description
	<ul style="list-style-type: none"> — Xalan 2.7.3 — Xerces2 Java 2.12.2 — xmlbeans 3.1.0 ○ Google <ul style="list-style-type: none"> — Google Gauva 32.1.2 — Gson 2.10.1 ○ Jason Hunter & Brett McLaughlin <ul style="list-style-type: none"> — JDOM 2.0.6 ○ MIT <ul style="list-style-type: none"> — Font Awesome 5.11.2 — jQuery 3.5.1 — raphael 2.3.0 — TinyMCE 6.7.2 ○ Oracle JET 14.0.5 ○ SIL <ul style="list-style-type: none"> — Font Awesome 5.11.2 ○ 2-Clause BSD <ul style="list-style-type: none"> — stax2-api 4.2 ○ 3-Clause BSD <ul style="list-style-type: none"> — Enterprise Security API (ESAPI) 2.2.1.1 — OWASP Java Encoder Project 1.2.3

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 Analytical Applications Infrastructure • Oracle Financial Services Model Management and Governance 	<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) — — Shell ○ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux — Oracle Solaris — ○ Oracle Database Server and Client ○ OLAP <ul style="list-style-type: none"> — Oracle Hyperion Essbase — Oracle OLAP

Products	Licensing Description
	<ul style="list-style-type: none"> ○ Web Server/ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat ○ Oracle Labs Data Studio 20.2.2 ● 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 ● Third party software tools used in Oracle Labs Data Studio <ul style="list-style-type: none"> ○ ACE Code Editor for the Web 1.4.8 ○ Commons IO 2.12.0 ○ Commons Lang 3.10 ○ D3 5.15.0 ○ JavaScript Extension Toolkit (JET) 9.0.0 ○ Kubernetes & OpenShift Java Client 4.9.0 ○ Liquibase 3.6.3 ○ Log4J 2.13.3 ○ STOMP.js 5.4.2 ○ Simple Logging Facade for Java (SLF4J) 1.7.30 ○ SockJS client 1.4.0 ○ Spring Boot 2.1.12 ○ Spring Retry 1.2.5 ○ Springfox 2.9.2 ○ Thrift 0.13.0 ○ Zeppelin 0.8.2 ○ Bluebird 3.7.2 ○ commonmark-java 0.15.1 ○ dagre 0.8.5 ○ fetch 3.4.0 ○ fuse.js 3.4.6 ○ guava 29.0-jre ○ jQuery 3.5.1 ○ jackson-databind 2.11.3 ○ jackson-dataformat-yaml 2.10.1 ○ jackson-datatype-jsr310 2.10.1 ○ jackson-module-afterburner 2.10.1 ○ jackson-module-parameter-names 2.10.1 ○ lodash version 4.17.15 ○ mapbox-gl-js 1.10

Products	Licensing Description
	<ul style="list-style-type: none">○ pip 19.2.3○ py4j 0.10.9○ swagger-ui 3.25.4○ three.js 0.112.1 <p>See Third Party Tools used in Oracle Labs Data Studio for information of third party tools used in Oracle Labs Data Studio and the respective licensing information.</p>

3 Product Family - Risk and Finance

This chapter includes licensing information for the Oracle Financial Services Risk and Finance related products.

Topics:

- [Oracle Financial Services Asset Liability Management](#)
- [Oracle Insurance Accounting Analyzer](#)
- [Oracle Insurance Loss Modeller](#)
- [Oracle Insurance Planner](#)
- [Oracle Financial Services Loan Loss Forecasting and Provisioning](#)
- [Oracle Financial Services Liquidity Risk Solution](#)
- [Oracle Financial Services Credit Risk Analytics Pack](#)
- [Oracle Financial Services Profitability Management Pack](#)
- [Oracle Financial Services Funds Transfer Pricing Pack](#)
- [Oracle Financial Services Balance Sheet Planning Pack](#)
- [Oracle Financial Services Market Risk Measurement and Management Application Pack](#)
- [Oracle Financial Services Capital Adequacy Application Pack](#)

3.1 Oracle Financial Services Asset Liability Management Application Pack

This section includes the licensing information for OFS ALM.

Table 2: Licensing Information for OFS ALM

Products	Licensing Description
<p>Each Oracle Financial Services Asset and Liability Management (OFS ALM) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Asset Liability Management (OFS ALM) • Oracle Financial Services Asset Liability Management and Funds Transfer Pricing Analytics (OFS ALMBI) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ○ Operating System <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell ○ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP <ul style="list-style-type: none"> — Oracle Hyperion Essbase — Oracle OLAP ○ Web Server or Web Application Server

Products	Licensing Description
	<ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the application pack <ul style="list-style-type: none"> ○ JExcel 3.6.1 ○ pmdarima 1.8.4

3.2 Oracle Insurance Accounting Analyzer Pack

This section includes licensing information for OFS IAA.

Table 3: Licensing Information for OFS IAA

Products	Licensing Description
<p>Each Oracle Insurance Accounting Analyzer (OFS IAA) Pack application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Insurance Accounting Analyzer (OIAA) 	<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 or Web Application Server ○ Desktop Requirements ○ Directory Services ○ OBIEE or OAS • Third party software tools used in the application pack <ul style="list-style-type: none"> ○ jsPDF- AutoTable - (3.2.5) ○ jExcel (1.5.1) ○ jsPDF (1.5.3) ○ MathJax (3.0.0)

3.3 Oracle Insurance Loss Modeller Application Pack

This section includes the licensing information for OILM.

Table 4: Licensing Information for OILM

Products	Licensing Description
<p>Each Oracle Insurance Loss Modeller (OILM) application pack includes the following products:</p>	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ○ Operating System <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux (x86-64)

Products	Licensing Description
<ul style="list-style-type: none"> • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Insurance Loss Modeller (OILM) 	<ul style="list-style-type: none"> — Shell ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP <ul style="list-style-type: none"> — Oracle Hyperion Essbase — Oracle OLAP ○ Web Server or Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the application pack <ul style="list-style-type: none"> ○ JExcel 3.6.1

3.4 Oracle Insurance Planner Pack

This section includes licensing information for OIP.

Table 5: Licensing Information for OIP

Products	Licensing Description
<p>Each Oracle Insurance Planner (OIP) Pack application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Insurance Planner (OIP) 	<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 or Web Application Server ○ Desktop Requirements ○ Directory Services • Third party software tools used in the application pack <ul style="list-style-type: none"> ○ jExcel (3.6.1)

3.5 Oracle Financial Services Loan Loss Forecasting and Provisioning

This section includes the licensing information for OFS LLFP.

Table 6: Licensing Information for OFS LLFP

Products	Licensing Description
<p>Each Oracle Financial Services Loan Loss Forecasting and Provisioning (OFS LLFP) application includes the following product:</p> <ul style="list-style-type: none"> • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Loan Loss Forecasting and Provisioning • Oracle Financial Services Model Management and Governance (OFS MMG) 	<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 (Applies to OFS MMG if being used with OFS LLFP) <ul style="list-style-type: none"> ○ numpy 1.19.5 ○ pandas 1.3.3 ○ scipy 1.7.1 ○ scikit-learn 1.0 ○ matplotlib 3.4.3 ○ seaborn 0.11.2 ○ statsmodels 0.12.2 ○ lifelines 0.26.3

3.6 Oracle Financial Services Liquidity Risk Solution Pack

This section includes the licensing information for OFS LRS.

Table 7: Licensing Information for OFS LRS

Products	Licensing Description
<p>Each 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 LRRCEBA) ● 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 LRRCHKMA) ● 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 or Web Application Server ○ Desktop Requirements ○ Directory Services ● Third party software tools used in the application pack <ul style="list-style-type: none"> ○ None

3.7 Oracle Financial Services Credit Risk Analytics Pack

This section includes the licensing information for OFS CRA.

Table 8: Licensing Information for OFS CRA

Products	Licensing Description
<p>Each Oracle Financial Services Credit Risk Analytical (OFS CRA) Application includes the following products:</p> <ul style="list-style-type: none"> ● Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) 	<ul style="list-style-type: none"> ● Prerequisites <ul style="list-style-type: none"> ○ Operating System ○ Java Runtime Environment ○ Oracle Database Server and Client ○ OLAP

Products	Licensing Description
<ul style="list-style-type: none"> • Oracle Financial Services Credit Risk Analytics 	<ul style="list-style-type: none"> ○ Web Server or Web Application Server ○ Desktop Requirements ○ Directory Services • Third-party software tools used in the application pack • None

3.8 Oracle Financial Services Profitability Management Pack

This section includes the licensing information for OFS PFT.

Table 9: Licensing Information for OFS PFT

Products	Licensing Description
<p>Each Oracle Financial Services Profitability Management (OFS PFT) pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Profitability Management (OFS PFT) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ○ Operating System <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell ○ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP <ul style="list-style-type: none"> — Oracle Hyperion Essbase — Oracle OLAP ○ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the application pack <ul style="list-style-type: none"> ○ jQuery 3.5.1 ○ JExcel 3.6.1

3.9 Oracle Financial Services Funds Transfer Pricing Pack

This section includes the licensing information for OFS FTP.

Table 10: Licensing Information for OFS FTP

Products	Licensing Description
<p>Each Oracle Financial Services Funds Transfer Pricing (OFS FTP) pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Funds Transfer Pricing (OFS FTP) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ○ Operating System <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell ○ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP <ul style="list-style-type: none"> — Oracle Hyperion Essbase — Oracle OLAP ○ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the application pack <ul style="list-style-type: none"> ○ jQuery 3.5.1 ○ JExcel 3.6.1 ○ cx_Oracle 8.0 ○ imbalanced-learn 0.7.0 ○ matplotlib 3.2.2 ○ NumPy 1.19.4 ○ Pandas 1.0.5 ○ Python 3.9.4 ○ scikit-learn 0.23.1 ○ SciPy 1.5.1 ○ Seaborn 0.10.1 ○ SQLAlchemy 1.3.18 ○ statsmodels 0.11.1

3.10 Oracle Financial Services Balance Sheet Planning Pack

This section includes the licensing information for OFS BSP.

Table 11: Licensing Information for OFS BSP

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 or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) ○ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the application pack <ul style="list-style-type: none"> ○ JExcel 3.6.1

3.11 Oracle Financial Services Market Risk Measurement and Management Application Pack

This section includes the licensing information for OFS MRMM.

Table 12: Licensing Information for OFS MRMM

Products	Licensing Description
<p>Each Oracle Financial Services Market Risk Measurement and Management (OFS MRMM) 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"> ○ Prerequisites ○ Operating System ○ Java Runtime Environment ○ Oracle Database Server and Client ○ OLAP ○ Web Server or Web Application Server ○ Desktop Requirements ○ Directory Services ○ Third party software tools used in the application pack ○ CAS 4.1.0 ○ cas-agent-4.2.0.jar ○ cas-client-4.2.0.jar ○ cas-compute-4.2.0.jar ○ cas-core-4.2.0.jar ○ cas-cptyrisk-4.2.0.jar

Products	Licensing Description
	<ul style="list-style-type: none"> ○ cas-server-4.2.0.jar

3.12 Oracle Financial Services Capital Adequacy Application Pack

This section includes the licensing information for OFS CAP

Table 13: Licensing Information for OFS CAP

Products	Licensing Description
<p>Each Oracle Financial Services Capital Adequacy (OFS CAP PACK) pack includes the following products:</p> <ul style="list-style-type: none"> ● Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) ● Oracle Financial Services Capital Adequacy (OFS CAP) Pack 	<p>Prerequisites</p> <ul style="list-style-type: none"> ● Operating System <ul style="list-style-type: none"> ○ Oracle Linux or Red Hat Enterprise Linux (x86-64) ○ Oracle Solaris(SPARC) ○ Java Runtime Environment ○ Oracle Linux or Red Hat Enterprise Linux ● Oracle Database Server and Client <ul style="list-style-type: none"> ○ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat ● Third party software tools used in the application pack <ul style="list-style-type: none"> ○ commons-math3-3.6.1.jar

4 Product Family - Data Management

This section includes licensing information for the Oracle Financial Services Data Management related products.

Topics:

- [Oracle Financial Services Data Foundation Pack](#)
- [Oracle Insurance Data Foundation Pack](#)
- [Oracle Financial Services Data Integration Hub Pack](#)

4.1 Oracle Financial Services Data Foundation Pack

This section includes licensing information for OFSDF

Table 14: Licensing Information for OFSDF

Products	Licensing Description
<p>Each Oracle Financial Services Data Foundation (OFSDF) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Data Foundation (OFSDF) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ○ Operating System <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris (SPARC) ○ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat • Third-party software tools used in the application pack <ul style="list-style-type: none"> ○ None

4.2 Oracle Insurance Data Foundation Pack

This section includes the licensing information for OIDE.

Table 15: Licensing Information for OIDE

Products	Licensing Description
<p>Each Oracle Insurance Data Foundation (OIDF) application pack includes the following products:</p> <ul style="list-style-type: none"> ● Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) ● Oracle Insurance Data Foundation (OIDF) 	<ul style="list-style-type: none"> ● Prerequisites <ul style="list-style-type: none"> ○ Operating System <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris (SPARC) ○ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat ● Third-party software tools used in the application pack <ul style="list-style-type: none"> ○ None

4.3 Oracle Financial Services Data Integration Hub Pack

This section includes licensing information for OFS DIH.

Table 16: Licensing Information for OFS DIH

Products	Licensing Description
<p>Each Oracle Financial Services Data Integration (OFS DIH) application pack includes the following products:</p> <ul style="list-style-type: none"> ● Oracle Financial Services Data Integration ● Oracle Financial Services Oracle Fusion Accounting Hub Interface ● Oracle Financial Services Oracle FLEXCUBE Interface ● Oracle Financial Services Oracle Data Relationship Management Interface ● Oracle Financial Services Oracle Banking Platform Interface ● Oracle Financial Services Data Foundation Integration with Accounting Hub Cloud Service 	<ul style="list-style-type: none"> ● Prerequisites <ul style="list-style-type: none"> ○ Operating System ○ Java Runtime Environment ○ Oracle Database Server and Client ○ Oracle Data Integrator ○ Web Server or Web Application Server ○ Desktop Requirements ○ Directory Services ● Third party software tools used in the application pack <ul style="list-style-type: none"> ○ Apache (Log4J (2.13.3)) ○ Jackson-databind (2.11.3) ○ Apache POI (4.1.2) ○ Jersey (2.2.5) ○ oracle.ucm.fa_client_11.1.1.jar ○ D3.js

Products	Licensing Description
<ul style="list-style-type: none"><li data-bbox="342 275 816 365">• Oracle Insurance Data Foundation Integration With Accounting Hub Cloud Service<li data-bbox="342 384 716 445">• Oracle Financial Services Data Integration With Unity	

5 Product Family - Regulatory Reporting

This section includes licensing information for the Oracle Financial Services Regulatory Reporting related products.

Topics:

- [OFS Regulatory Reporting for European Banking Authority](#)
- [OFS Regulatory Reporting Data Sets and Governance for Asia Pacific and Middle East Jurisdictions](#)

5.1 OFS Regulatory Reporting for European Banking Authority

This section includes licensing information for OFS AGILE RP EBA.

Table 17: Licensing Information for OFS AGILE RP EBA

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 <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris (SPARC) ○ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat ○ Oracle Financial Services Data Foundation 8.1.2.0.0 Application Pack ○ Oracle Financial Services AgileREPORTER Application 8.0.9.6.4 • Third party software tools used in the application pack For information on third party software tools, see the OFS Analytical Applications Infrastructure section.

5.2 OFS Regulatory Reporting Data Sets and Governance for Asia Pacific and Middle East Jurisdictions

This section includes licensing information for OFS REG REP APME.

Table 18: Licensing Information for OFS REG REP APME

Products	Licensing Description
<p>Oracle Financial Services Regulatory Reporting Data Sets and Governance for Asia Pacific and Middle East Jurisdictions (OFS REG REP APME) application pack</p>	<ul style="list-style-type: none"> ● Prerequisites <ul style="list-style-type: none"> ○ Operating System <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris (SPARC) ○ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat ○ Oracle Financial Services Data Foundation 8.1.2.0.0 Application Pack ● Third party software tools used in the application pack <ul style="list-style-type: none"> ○ None

6 Product Family - Customer Insight

This chapter includes licensing information for the Oracle Financial Services Customer Insight products.

Topics:

- [Oracle Financial Services Performance Analytics Applications Pack](#)
- [Oracle Financial Services Customer Analytics Applications Pack](#)

6.1 Oracle Financial Services Performance Analytics Applications Pack

This section includes licensing information for OFS PA.

Table 19: Licensing Information for OFS PA

Products	Licensing Description
<p>Each Oracle Financial Services Performance Analytics (OFS PA) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Institutional Performance Analytics (OFS IPA) • Oracle Financial Services Retail Performance Analytics (OFS RPA) • Oracle Financial Services Enterprise Financial Performance Analytics (OFS EFPA) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ○ Operating System <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell ○ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP <ul style="list-style-type: none"> — Oracle Hyperion Essbase — Oracle OLAP ○ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the application pack <ul style="list-style-type: none"> ○ D3 (d3.js) 5.4.0 ○ Rgraph 4.67 ○ jQuery 3.5.1

6.2 Oracle Financial Services Customer Analytics Applications Pack

This section includes licensing information for OFS CA.

Table 20: Licensing Information for OFS CA

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"> • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Customer Analytics (OFS CA) 	<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 or Web Application Server ○ Desktop Requirements ○ Directory Services ○ Apex 19.2 ○ ORDS 19.4.6.142.1859 • Third party software tools used in the application pack <ul style="list-style-type: none"> ○ cx_Oracle 8.0 ○ imbalanced-learn 0.7.0 ○ matplotlib 3.2.2 ○ NumPy 1.19.4 ○ Pandas 1.0.5 ○ Python 3.9.4 ○ scikit-learn 0.23.1 ○ SciPy 1.5.1 ○ Seaborn 0.10.1 ○ SQLAlchemy 1.3.18 ○ statsmodels 0.11.1

7 **Fourth-Party Tools**

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.

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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.

Table 21: Commercial Software

Provider	Component(s)	Functionality	Licensing Information
Numerix LLC	CAS 4.1	Third party library of market risk models and methods	For a copy of the license, see Numerix LLC

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Table 22: Open Source Software

Provider	Component(s)	Functionality	Licensing Information
Apache Software Foundation	Apache Ant Apache FOP Apache POI cglib Commons BeanUtils Commons Codec Commons Collections Commons DBCP Commons FileUpload Commons IO Commons Compress Commons Lang Commons Logging Commons Pool Commons VFS	Scripting Platform Platform Persistence Tier and Install	Copyright © 2019 The Apache Software Foundation. This product includes software developed by The Apache Software Foundation (http://www.apache.org/). Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 . For a copy of the license, see Apache License, Version 2.0 .

Provider	Component(s)	Functionality	Licensing Information
	FreeMarker Guava Hadoop Hive jackson-databind JWT joda-time Kafka Log4J Mousetrap POI Scala Spark sqoop Xerces2 Java XMLBeans XWork		
Cloudera	Cloudera Standard— Apache Hadoop CDH 5.13.x and 6.2.x Cloudera Manager Cloudera Hive Connectors	Contains the core elements of Hadoop that provide reliable, scalable distributed data processing of large data sets, as well as other enterprise-oriented components. These elements provide security, high availability, and integration with hardware and other software.	Copyright © 2019 The Apache Software Foundation. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 . For a copy of the license, see Apache License, Version 2.0 .
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Fasterxml	Jackson	Data binding	Jackson is licensed under the Apache License, Version 2.0. Copyright © 2019 The Apache Software Foundation. Licensed under the Apache License, Version 2.0 (the "License"); you may not

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Jason Hunter and Brett McLaughlin	JDOM	Java-based solution to access, manipulate, and generate XML data from Java code.	Copyright © 2000-2004 Jason Hunter & Brett McLaughlin. For a copy of the license, see Jason Hunter and Brett McLaughlin
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JS Foundation and other contributors	jQuery	JavaScript Library	jQuery is licensed under The MIT license. For a copy of the license, see the License text .

Provider	Component(s)	Functionality	Licensing Information
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Richard Heyes	RGraph	Creating Android Charts with HTML or Javascript.	RGraph is licensed under The MIT license. For a copy of the license, see the License text .
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FasterXML LLC	stax2-api	Extension API for Stax	This source code is licensed under standard BSD license. For a copy of the license, see the License text .
OWASP Foundation	Enterprise Security API (ESAPI) 2.2.1.1	Open source, web application security control library designed to write lower-risk applications.	Licensed under the New BSD license. For a copy of the license, see the License text .
Jeff Ichnowski	OWASP Java Encoder Project 1.2.3	Encoder class with no dependencies and little baggage enabling Java developers to defend against Cross-Site Scripting attacks.	Licensed under the New BSD license. For a copy of the license, see the License text .
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```

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```
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expression-eval

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jsep -

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<http://proj4js.org/>

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require-css

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

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

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Normalize.scss

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RequireJS i18n

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

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select2.js

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

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

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RequireJS text

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

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RequireJS

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

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Modules

- 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

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4th party dependencies

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```
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- 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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external/sizzle

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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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string_decoder

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util-deprecate

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isarray

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process-nextick-args

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9.13.8 **pmdarima**

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cpython - A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python

releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is ""not incompatible"" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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As per item (3), we are required to provide a brief summary of changes. For this, see comments in `patsy/compat.py`.

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9.14.1 D3

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xom

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```
/* Stax2 extension for basic Stax API (JSR-173).
```

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9.18 Ryan Niemeyer, Technology: knockout-postbox

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