

Oracle Financial Services Analytical Applications Licensing Information

User Manual

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ORACLE
Financial Services

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OFSAA Licensing Information User Manual

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Document Control

Version Number	Revision Date	Change Log
1.0	December 2018	First release
2.0	January 2019	Updated content for ECM
3.0	January 2019	Updated content for FSDF, ODF and PCD
4.0	January 2019	Updated Chapter Restricted Use Licenses, with information for Financial Services Anti Money Laundering Enterprise Edition and Financial Services Fraud Enterprise Edition
5.0	February 2019	Updated content for Sanctions, EDQ and UCS
6.0	February 2019	Added content for AIF4AML
6.0	February 2019	Added content for Oracle data Integrator
7.0	March 2019	Updated content for ALM
8.0	September 2019	Updated Chapter Restricted Use Licenses, with information for Financial Services Trade-Based Anti Money Laundering Enterprise Edition
9.0	September 2019	Updated content for FCC Studio
10.0	November 2020	Updated versions for POI, Jackson, Jackson databind, jQuery, Log4J
11.0	August 2022	Updated the information for Oracle Financial Services Advanced Analytical Applications Infrastructure and Oracle Financial Services Data Foundation Pack.
12.0	April 2023	Added information for Oracle JET
13.0	July 2023	Added information for July2023 CPU.

Table of Contents

1	Licensing Information	7
2	Product Family - Platform.....	8
2.1	Oracle Financial Services Advanced Analytical Applications Infrastructure.....	8
3	Product Family - Risk and Finance	11
3.1	Oracle Financial Services Asset Liability Management Application Pack	11
3.2	Oracle Financial Services Capital Adequacy Application Pack.....	11
3.3	Oracle Insurance International Financial Reporting Standards 17 Analyzer Pack.....	12
3.4	Oracle Financial Services International Financial Reporting Standards Pack	12
3.5	Oracle Financial Services Liquidity Risk Solution Pack	13
3.6	Oracle Financial Services Market Risk Measurement and Management Application Pack.....	13
3.7	Oracle Financial Services Profitability Applications Pack.....	14
4	Product Family - Data Management	15
4.1	Oracle Financial Services Data Foundation Pack	15
4.2	Oracle Financial Services Data Integration Hub Pack	15
4.2.1	<i>Oracle Data Integrator</i>	16
4.3	Oracle Financial Services Data Management Application Pack.....	19
5	Product Family - Regulatory Reporting	20
5.1	OFS Regulatory Reporting for De Nederlandsche Bank.....	20
5.2	OFS Regulatory Reporting for European Banking Authority	20
5.3	OFS Regulatory Reporting for European Banking Authority – Lombard Risk Integration Pack.....	21
5.4	OFS Regulatory Reporting for Reserve Bank of India	21
5.5	OFS Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack	22
5.6	OFS Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack.....	22
5.7	OFS Regulatory Reporting for US Federal Reserve.....	23
5.8	OFS Regulatory Reporting for US Treasury.....	23
5.9	OFS Regulatory Reporting for US Treasury – Lombard Risk Integration Pack	24
5.10	OFS Regulatory Reporting for Australian Prudential Regulation Authority	24
5.11	Oracle Financial Services AgileREPORTER Application Pack	25
6	Product Family - Financial Crime and Compliance Management.....	26

6.1	Anti Money Laundering Event Scoring Application Pack	26
6.2	Behavior Detection Application Pack	27
6.3	Compliance Regulatory Reporting Application Pack.....	28
6.4	Enterprise Case Management Application Pack	28
6.5	Sanctions Application Pack.....	29
6.5.2	<i>Enterprise Data Quality for OFSAA and Enterprise Data Quality for Universal Customer Screening.....</i>	<i>30</i>
6.6	Trade-Based Anti Money Laundering Enterprise Edition Application Pack.....	30
6.7	Universal Customer Screening Application	31
6.8	Oracle Financial Services Adaptive Intelligence Foundation for Anti Money Laundering.....	31
6.9	Financial Crime and Compliance Studio Application Pack	32
7	Product Family - Customer Insight.....	33
7.1	Price Creation and Discovery Application Pack	33
7.2	Customer Analytics Application Pack	33
8	Product Family – Insurance.....	34
8.1	Oracle Insurance Data Foundation Pack	34
9	Restricted Use License	35
10	Third-Party Notices	38
10.1	Commercial Software.....	38
10.2	Open Source Software	38
11	Third-Party Licenses	45
11.1	Apache License, Version 2.0	45
11.2	Atsuhiko Yamanaka, JCraft, Inc.....	47
11.3	Boost Software.....	48
11.4	Eclipse	48
11.5	Eclipse Public License	49
11.6	Free Software Foundation	52
11.7	Gnuplot, V 4.6 and above.....	75
11.8	INRIA, France Telecom, Technology: ASM	76
11.9	Jason Hunter and Brett McLaughlin	76
11.10	JDOM	77
11.11	Json-path.....	77

11.12	Json-smart.....	86
11.13	Jzip.....	94
11.14	MetaStuff, Ltd.	117
11.15	NAG Limited	118
11.16	Thai Open Source Software Center Ltd	118
11.17	Oracle JET 11.1.2	119
11.18	Spring.....	141
11.18.1	<i>Spring Framework</i>	160
11.19	The MIT License	178
11.20	Visigoth Software Society	178
11.21	Ryan Niemeyer, Technology: knockout-postbox.....	179
11.22	Werken Digital.....	179
11.23	YUI (Yahoo UI libraries).....	180
12	Appendix – Additional Third Party Tools for FCC Studio	181
12.1	Third Party Tools used in Oracle Labs Data Studio	181
12.2	Third Party Tools used in Parallel Graph AnalyticX (PGX)	181

1 Licensing Information

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2 Product Family - Platform

2.1 Oracle Financial Services Advanced Analytical Applications Infrastructure

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 	<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 2.0 <ul style="list-style-type: none"> — accessors-smart 2.4.11 — ant-1.10.9.jar — batik-transcoder-1.14.jar — cglib-nodep-2.1.3.jar — commons-beanutils-1.9.4.jar — commons-codec-1.13.jar — commons-collections4-4.4.jar — commons-dbcp2-2.9.0.jar — commons-discovery-0.5.jar — commons-fileupload-1.4.jar — commons-io-2.8.0.jar — commons-lang3-3.11.jar — commons-logging-1.1.3.jar

Products	Licensing Description
	<ul style="list-style-type: none"> — Commons-math3-3.6.1.jar — commons-pool2-2.8.1.jar — commons-vfs2-2.6.0.jar — dom4j-1.6.1.jar — fop-2.2.jar — freemarker-2.3.31.jar — Gson 2.10.1 — hadoop 5.13.0 — Jackson 2.13.3.jar — jackson-core-asl-2.13.3.jar — jackson-mapper-asl-2.13.3.jar — jetty 9.4.11 — joda-time-2.10.1.jar — json-lib-2.4-jdk15.jar — json-smart 2.4.11 — json-path 2.8.0 — jszip 3.10.1 — jszip.min.js 3.10.1 — kafka_2.13-2.6.0.jar — log4j-2.12.4.jar — OpenCMIS 1.1.0 — opensaml-3.4.5.jar — poi-4.1.2.jar — serializer-2.10.0.jar — Spring 5.3.21 — velocity-1.7.jar — xalan-2.7.2.jar — xerces.jar — xmlbeans-3.1.0.jar — xml-resolver-1.2.jar — Zed Attack Proxy (ZAP) 2.6.0 ▪ BSD license <ul style="list-style-type: none"> — esapi-2.4.0.0.jar (Enterprise Security API (ESAPI) 2.4.0.0) — stax2-api-3.1.4.jar (stax2-api 3.1.4) ▪ BSD <ul style="list-style-type: none"> — jsch-0.1.55.jar (JSch 0.1.55) ▪ BSD/Apache style <ul style="list-style-type: none"> — jdom.jar (JDOM 1.1.3) ▪ BSD-3 <ul style="list-style-type: none"> — OWASP Java Encoder (OWASP Java Encoder Project 1.2.1) ▪ Burp Suite Free Edition License Agreement <ul style="list-style-type: none"> — Burp Suite Free Edition 1.7.19

Products	Licensing Description
	<ul style="list-style-type: none"> ▪ CDDL 1.0 & GPL <ul style="list-style-type: none"> — Stax-api 1.0-2 ▪ EPL 1.0 and EDL 1.0 <ul style="list-style-type: none"> — eclipselink-2.7.10.jar (Eclipse Persistence Services Project (EclipseLink) 2.7.10) ▪ EPL 1.0 <ul style="list-style-type: none"> — ecj-4.6.1.jar ▪ junit-4.12.jar (JUnit 4.12) GNU <ul style="list-style-type: none"> — Font Awesome 4.4.0 ▪ Oracle JET 11.1.2 ▪ MIT <ul style="list-style-type: none"> — CKEditor 4 4.6.2 — FullCalendar 3.9.0 — jQuery 3.5.1 — knockout-postbox 0.6 ▪ numpy developers <ul style="list-style-type: none"> — numpy 1.14.3 ▪ Raphael JavaScript Library 2.1 2.2.1 Public <ul style="list-style-type: none"> — aopalliance-1.0.jar ▪ scipy developers <ul style="list-style-type: none"> — SciPy

3 Product Family - Risk and Finance

3.1 Oracle Financial Services Asset Liability Management Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Asset and Liability Management (OFSALM) 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 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 / 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 • Third party software tools used in the application pack <ul style="list-style-type: none"> ▪ Jersey_2.25 ▪ JQuery-3.5.1 ▪ JSTL-1.2 ▪ Knockout-3.4.2 ▪ log4j-2.12.1

3.2 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 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Database Server and Client

Products	Licensing Description
<ul style="list-style-type: none"> Oracle Financial Services Basel Regulatory Capital Basic Oracle Financial Services Basel Regulatory Capital Internal Ratings Based Approach Oracle Financial Services Basel Regulatory Capital Analytics 	<ul style="list-style-type: none"> 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"> NagC Mark8, DMC Mark8 Apache (Commons IO 2.2; commons-lang 3 3.2; Commons FileUpload 1.3.2; Commons Logging 1.1.3)

3.3 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 <ul style="list-style-type: none"> None

3.4 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

Products	Licensing Description
	<ul style="list-style-type: none"> ▪ Directory Services • Third party software tools used in the application pack <ul style="list-style-type: none"> ▪ None

3.5 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 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

3.6 Oracle Financial Services Market Risk Measurement and Management Application Pack

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

Products	Licensing Description
<p>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"> ▪ 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"> ▪ CAS 4.1.0

3.7 Oracle Financial Services Profitability Applications Pack

Products	Licensing Description
<p>Each Oracle Financial Services Profitability application 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) • Oracle Financial Services Profitability Management (OFS PFT) • 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 / 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 • Third party software tools used in the application pack <ul style="list-style-type: none"> ▪ Apache (Struts 2 (2.3.32); Commons-lang3 (3.1); XWork 2.3.16.3; Commons-logging 1.1.3) ▪ FreeMarker 2.3.19

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"> ▪ commons-io-2.8.0.jar ▪ commons-fileupload-1.4.jar ▪ commons-lang3-3.11.jar ▪ poi-4.1.2.jar

4.2 Oracle Financial Services Data Integration Hub Pack

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 	<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/ Web Application Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the application pack <ul style="list-style-type: none"> ▪ Apache (Log4J (2.12.1); Struts 2 (2.3.34); Jackson-databind (2.11.1); Apache POI (4.1.1); Jersey (2.x)

4.2.1 Oracle Data Integrator

Product	Licensing Description
<ul style="list-style-type: none"> • 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.jar ▪ aopalliance.jar ▪ bpm-infra.jar ▪ bsf.jar ▪ bsh-2.0b2.jar ▪ bsh-2.0b4.jar ▪ com-jcraft-jsch.jar ▪ commons-beanutils-1.7.0.jar ▪ commons-codec-1.3.jar ▪ commons-codec-1.9.jar ▪ commons-collections-3.2.2.jar ▪ commons-collections-3.2.jar ▪ commons-discovery-0.4.jar ▪ commons-httpclient-3.1.jar ▪ commons-io-1.2.jar ▪ commons-io-2.2.jar ▪ commons-lang-2.2.jar ▪ commons-logging-1.1.1.jar ▪ commons-logging-1.2.jar ▪ commons-net-3.3.jar ▪ commons-vfs-1.0.jar ▪ commons-vfs2-2.0.jar ▪ connector.jar ▪ cpld.jar ▪ dms.jar ▪ eclipselink-dbwsutils.jar ▪ eclipselink.jar ▪ enterprise_data_quality.jar ▪ ess_es_server.jar

Product	Licensing Description
	<ul style="list-style-type: none"> ▪ ess_es_server_11.1.2.3.500.jar ▪ ess_japi.jar ▪ ess_japi_11.1.2.3.500.jar ▪ groovy-all-1.7.4.jar ▪ groovy-all-2.1.6.jar ▪ groovy-all-2.3.7.jar ▪ groovy-all-2.4.6.jar ▪ gson-2.6.2.jar ▪ HspJS.jar ▪ HspJS_11.1.2.0.jar ▪ HspJS_11.1.2.3.500.jar ▪ hsqldb.jar ▪ identitystore.jar ▪ identityutils.jar ▪ jackson-core-asl-1.9.13.jar ▪ jackson-mapper-asl-1.9.13.jar ▪ jakarta-oro-2.0.8.jar ▪ javax.persistence-src.jar ▪ javax.persistence.jar ▪ javax.validation.jar ▪ javolution.jar ▪ jms.jar ▪ jps-api.jar ▪ jsch-0.1.53.jar ▪ jsch.jar ▪ json-path-2.2.0.jar ▪ jython.jar ▪ jzlib-1.07.jar ▪ log4j-2.12.1.jar ▪ mimepull.jar ▪ odi-core.jar ▪ odi-sap.jar ▪ odi-wls-template-gen.jar ▪ odihapp_common.jar ▪ odihapp_essbase.jar ▪ odihapp_essbase_11.1.2.3.500.jar ▪ odihapp_planning.jar ▪ odihapp_planning_11.1.2.0.jar ▪ odihapp_planning_11.1.2.3.500.jar ▪ odi_hfm.jar ▪ ogg_jmx_interface.jar ▪ ojdbc8.jar

Product	Licensing Description
	<ul style="list-style-type: none"> ▪ ojdk.jar ▪ oracle.odi-jaxrsri.jar ▪ oracle.odi-sdk-jse.jar ▪ oracle.odi-sdk-jse_12.1.3.jar ▪ oracle.ucp.jar ▪ org.codehaus.jackson.jackson-core-asl.jar ▪ org.codehaus.jackson.jackson-mapper-asl.jar ▪ org.eclipse.jgit_3.6.2.201501210735-r.jar ▪ org.jvnet.mimepull.mimepull.jar ▪ pop3.jar ▪ sapjco.jar ▪ sapjco3.jar ▪ slf4j-api-1.7.5.jar ▪ spring-aop.jar ▪ spring-beans.jar ▪ spring-context-support.jar ▪ spring-context.jar ▪ spring-core.jar ▪ spring-dao.jar ▪ spring-expression.jar ▪ spring-instrument-tomcat.jar ▪ spring-instrument.jar ▪ spring-jdbc.jar ▪ spring-jms.jar ▪ spring-jmx.jar ▪ spring-jpa.jar ▪ spring-orm.jar ▪ spring-oxm.jar ▪ spring-struts.jar ▪ spring-test.jar ▪ spring-tx.jar ▪ spring-web.jar ▪ spring-webmvc-portlet.jar ▪ spring-webmvc.jar ▪ staxon-1.0.jar ▪ staxon-jackson-1.0.jar ▪ svnkit-1.8.3.jar ▪ trilead-ssh2-1.0.0-build217.jar ▪ trove.jar ▪ wls-api.jar ▪ woodstox.jar ▪ XmlSchema-1.4.2.jar

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 <ul style="list-style-type: none"> ▪ Log4J (2.12.1); XWork 2.3.16.3; Commons-lang3 (3.1); Commons-beanutils-1.8.3)

5 Product Family - Regulatory Reporting

5.1 OFS 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 8.0.7 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

5.2 OFS 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 8.0.7 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 OFS 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 8.0.7 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 OFS 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 8.0.7 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 OFS 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 8.0.7 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 OFS 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 8.0.7 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 OFS 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 8.0.7 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 OFS 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 System ▪ Java Runtime Environment ▪ Oracle Financial Services Data Foundation 8.0.7 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 OFS 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 8.0.7 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

5.10 OFS Regulatory Reporting for Australian Prudential Regulation Authority

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for Australian Prudential Regulation Authority (OFS REG REP APRA) 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 8.0.7 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

5.11 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 8.0.7 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

6 Product Family - Financial Crime and Compliance Management

6.1 Anti Money Laundering Event Scoring Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Anti Money Laundering Event Scoring application pack includes the following product:</p> <ul style="list-style-type: none"> • Anti Money Laundering Event Scoring 	<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 <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux ▪ Oracle Database Server and Client <ul style="list-style-type: none"> — Oracle Database Server Enterprise Edition 12c Release 1 (12.1.0.1.0 +) — Oracle Client 12c Release 1 (12.1.0.1.0+) — Oracle 12C Release 1 (12.1.0.1+) JDBC driver (Oracle thin driver) — Oracle R Distribution version 3.3 — Oracle R Enterprise (Server) version 1.5.1 ▪ Web Server/ Web Application Server <ul style="list-style-type: none"> — Oracle WebLogic — IBM WebSphere — Apache Tomcat • Third party software tools used in the application pack <ul style="list-style-type: none"> ▪ CRAN R <ul style="list-style-type: none"> — xgboost 0.6.4 — jsonlite 1.5

6.2 Behavior Detection Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Behavior Detection (OFS BD) applications pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Inline Processing Engine (OFS IPE) • Oracle Financial Services Anti-Money Laundering (OFS AML) • Oracle Financial Services Fraud Management Enterprise Edition (OFS FM EE) • Oracle Financial Services Trading Compliance (OFS TC) • Oracle Financial Services Trade Blotter (OFS TB) • Oracle Financial Services Personal Trading Approval (OFS PTA) • Oracle Financial Services Broker Compliance (OFS BC) • Oracle Financial Services Energy and Commodity Trading Compliance (OFS ECTC) • Oracle Financial Services Know Your Customer (OFS KYC) • Oracle Financial Services Currency Transaction Reporting (OFS CTR) • Oracle Financial Services Foreign Account Tax Compliance Act (OFS FATCA) Management 	<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 ▪ Web Server/ 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

6.3 Compliance Regulatory Reporting Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Compliance Regulatory Reporting application pack includes the following product:</p> <ul style="list-style-type: none"> • Compliance Regulatory Reporting 	<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 <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 • Third party software tools used in the application pack <ul style="list-style-type: none"> ▪ Eclipselink 2.6.4

6.4 Enterprise Case Management Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Enterprise Case Management application pack includes the following product:</p> <ul style="list-style-type: none"> • Oracle Financial Services Enterprise Case Management (ECM) 	<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 ▪ 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"> ▪ Fontbox 2.0.11 ▪ Pdfbox 2.0.11

6.5 Sanctions Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Sanctions application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Transaction Filtering • Oracle Financial Services Customer Screening 	<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 ▪ Web Server/ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat ▪ EDQ <ul style="list-style-type: none"> — Oracle Enterprise Data Quality for Oracle Financial Services Analytical Applications (Oracle EDQ 12.2.1.1.0) must be installed. This needs to be installed separately and not on an existing AAI or OFS pack. • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ None

6.5.2 Enterprise Data Quality for OFSAA and Enterprise Data Quality for Universal Customer Screening

Products	Licensing Description
<ul style="list-style-type: none"> • Oracle Enterprise Data Quality 	<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 <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux ▪ 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"> ▪ commonslang 3.4, 3.5; Apache Commons DBCP; Commons Pool 1.6; Apache Derby; Apache Derby 10.9.11; Apache FOP 1.1; Apache FTP Server; Apache Jakarta Commons HttpClient 3.1; Apache Commons Pool; HttpComponents HttpClient 4.5.1; Apache Lucene; Apache Mina SSHD 2.0.0.8.0; Apache POI 4.1.1; Commons Codec 1.5; httpmime 4.5.1; Jakarta Commons DBCP 1.3; Log4j 2.12.1 ▪ Apache Commons Logging 1.1.3; Apache Commons Logging 1.1; Apache Commons Logging 1.1.1 ▪ JDOM 1.1 ▪ Jaxen 1.1.6

6.6 Trade-Based Anti Money Laundering Enterprise Edition Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Trade Based Anti Money Laundering application pack includes the following product:</p> <ul style="list-style-type: none"> • Oracle Financial Services Trade Based Anti Money Laundering (OFS TBAML) 	<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 <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application Server <ul style="list-style-type: none"> — WebLogic — Websphere

Products	Licensing Description
	<ul style="list-style-type: none"> ▪ Oracle Enterprise Data Quality for Oracle Financial Services Analytical Applications (Oracle EDQ 12.2.1.1 / 12.2.1.3) • Third party software tools used in the application pack <ul style="list-style-type: none"> ▪ None

6.7 Universal Customer Screening Application

Products	Licensing Description
<p>Each Oracle Financial Services Universal Customer Screening application pack includes the following product:</p> <ul style="list-style-type: none"> • Oracle Financial Services Universal Customer Screening (OFS UCS) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ EDQ for UCS • Third party software tools used in the application pack <ul style="list-style-type: none"> ▪ None

6.8 Oracle Financial Services Adaptive Intelligence Foundation for Anti Money Laundering

Products	Licensing Description
<p>Each Oracle Financial Services Adaptive Intelligence Foundation for Anti Money Laundering (AIF4AML) pack includes the following product:</p> <ul style="list-style-type: none"> • Adaptive Intelligence Foundation for Anti Money Laundering 	<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 <ul style="list-style-type: none"> — Oracle Linux/Red Hat Enterprise Linux ▪ Oracle Database Server and Client <ul style="list-style-type: none"> — Oracle Database Server Enterprise Edition 12c Release 1 (12.1.0.1.0 +) — Oracle Client 12c Release 1 (12.1.0.1.0+) — Oracle 12C Release 1 (12.1.0.1+) JDBC driver (Oracle thin driver) — Oracle R Distribution version 3.3 — Oracle R Enterprise (Server) version 1.5.1 ▪ OFS BD Application Pack 8.0.7.0.0 ▪ OFS FCC Studio Application Pack 8.0.7.0.0 • Third party software tools used in the application pack <ul style="list-style-type: none"> ▪ CRAN R <ul style="list-style-type: none"> — jsonlite 1.5 — xgboost 0.71.2

6.9 Financial Crime and Compliance Studio Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Financial Crime and Compliance Studio application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Financial Crime and Compliance Studio. The application is integrated with the following applications: <ul style="list-style-type: none"> ▪ Oracle Labs Data Studio ▪ Parallel Graph AnalyticX (PGX) 	<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 <ul style="list-style-type: none"> — JDK 1.8 and above ▪ Oracle Database Server and Client • Third party software tools used in the application pack <ul style="list-style-type: none"> — Apache mina sshd — commons-dbc2 — commons-lang3 — Hadoop — jackson-annotations — jackson-core — jackson-databind — jetty — json — liquibase — log4j — slf4j — spring — spring boot <p>See Appendix – Additional Third Party Tools for FCC Studio for information of third party tools used in Oracle Labs data Studio & Parallel Graph AnalyticX, and the respective licensing information.</p>

7 Product Family - Customer Insight

7.1 Price Creation and Discovery Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Price Creation and Discovery (OFS PCD) application pack includes the following product:</p> <ul style="list-style-type: none"> Oracle Financial Services Price Creation and Discovery 	<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"> jQuery JavaScript Library 3.5.1 Raphael JavaScript Library 2.2.1 Dojo 0.4.4 YUI 2.9.0 esapi-2.1.0.1.jar

7.2 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 <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) 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

8 Product Family – Insurance

8.1 Oracle Insurance Data Foundation Pack

Products	Licensing Description
<p>Each Oracle Insurance Data Foundation (OIDF) applications pack includes the following product:</p> <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"> ▪ commons-io-2.5.jar ▪ commons-fileupload-1.3.3.jar ▪ commons-lang3-3.2.jar ▪ poi-4.1.1.jar

9 Restricted Use License

The following are the restricted use licenses:

- **Oracle Financial Services Know Your Customer**

The Oracle Financial Services Know Your Customer (KYC) product license includes Inline Processing Engine (IPE) application and Enterprise Case Management (ECM) with a restricted usage. Restricted usage with respect to Inline Processing Engine is defined as creation of new risk factors or new risk model, maintaining and modifying out of the box risk scoring logic. Restricted usage with respect to Enterprise Case Management is applicable for investigating and managing KYC cases.

- **Oracle Financial Services Analytical Applications Infrastructure for Financial Crime and Compliance Management**

The Oracle Financial Services Analytical Applications Infrastructure for Financial Crime and Compliance Management license is restricted for use with the listed applications:

- Financial Services Anti Money Laundering Enterprise Edition
- Financial Services Trading Compliance Enterprise Edition
- Financial Services Broker Compliance Enterprise Edition
- Financial Services Energy and Commodity Trading Compliance
- Financial Services Enterprise Fraud Management
- Financial Services Know Your Customer
- Financial Services Compliance Regulatory Reporting
- Financial Services Currency Transaction Reporting
- Financial Services Personal Trading Approval
- Financial Services Trade Blotter
- Financial Services Enterprise Case Management
- Financial Services Analytics
- Financial Services Foreign Account Tax Compliance Act Management
- Financial Services Common Reporting Standard
- Financial Services Customer Screening
- Financial Services Anti Money Laundering Event Scoring

- **Oracle Financial Services Customer Screening**

The Oracle Financial Services Customer Screening application includes Oracle Financial Services Enterprise Case Management and Financial Services Analytical Applications Infrastructure functionality that may be used only for investigating and managing Oracle Financial Services Customer Screening cases.

- **Financial Services Anti Money Laundering Enterprise Edition**

Supplement change contains FCCM Enterprise Case Management functionality, this functionality has a restricted use and is to be used only for the following purposes:

- To investigate cases related to AML behaviors for events derived only from the Oracle FCCM AML or Fraud Behavior Detection engine or through the post alert service;
- Any correlation rules can only allow for either each individual event singularly being correlated to a case or having events correlate for the same focal entity for a single behavior detection engine run (a single batch ID);
- Application Users can only be assigned one of two available roles: Level 1 Analyst and Level 1 Supervisor. The permissions associated to these roles cannot be modified;
- Only the applicable workflow can be changed when using the Anti Money Laundering Event Disposition and Fraud Event Disposition Case Types, the Attributes and Entities cannot be changed;
- Any changes to workflows must be made by editing the Anti Money Laundering Event Disposition and Fraud Event Disposition Case workflows. No other editing of workflows is allowed;
- RFI functionality cannot be implemented;
- Web Services available for Enterprise Case Management product cannot be used; and
- Only existing Application Rules can be used. If an Application Rule needs to be created it can only be of a Decision Rule type. No additional Application rules can be created when developing workflows in Process Modeling Framework barring the only exception if an Application Rule is a Decision Rule Type.

- **Financial Services Fraud Enterprise Edition**

Supplement change contains FCCM Enterprise Case Management functionality, this functionality has a restricted use and is to be used only for the following purposes:

- To investigate cases related to AML behaviors for events derived only from the Oracle FCCM AML or Fraud Behavior Detection engine or through the post alert service;
- Any correlation rules can only allow for either each individual event singularly being correlated to a case or having events correlate for the same focal entity for a single behavior detection engine run (a single batch ID);
- Application Users can only be assigned one of two available roles: Level 1 Analyst and Level 1 Supervisor. The permissions associated to these roles cannot be modified;
- Only the applicable workflow can be changed when using the Anti Money Laundering Event Disposition and Fraud Event Disposition Case Types, the Attributes and Entities cannot be changed;

- Any changes to workflows must be made by editing the Anti Money Laundering Event Disposition and Fraud Event Disposition Case workflows. No other editing of workflows is allowed;
 - RFI functionality cannot be implemented;
 - Web Services available for Enterprise Case Management product cannot be used; and
 - Only existing Application Rules can be used. If an Application Rule needs to be created it can only be of a Decision Rule type. No additional Application rules can be created when developing workflows in Process Modeling Framework barring the only exception if an Application Rule is a Decision Rule Type.
- **Financial Services Trade-Based Anti Money Laundering Enterprise Edition**

Supplement change contains FCCM Enterprise Case Management functionality, this functionality has a restricted use and is to be used only for the following purposes:

 - To investigate cases related to events derived only from the Oracle FCCM TBAML (behavior detection and screening) or through the post alert service.
 - Any correlation rules can only allow for either each individual event singularly being correlated to a case or having events correlate for the same focal entity;
 - Application Users can only be assigned the following available roles: CM Level 1 Analyst, CM Level 1 Supervisor, Case Administrator and Case Viewer roles. The permissions associated to these roles cannot be modified;
 - In Case Designer, only the applicable workflow can be changed when editing the TBAML Event Disposition Case Type. The Attributes and Entities cannot be changed;
 - Any changes to workflows must be made by editing the TBAML Event Disposition Case workflows. No other editing of workflows is allowed;
 - RFI functionality cannot be implemented;
 - QA Sampling functionality cannot be implemented; and
 - Web Services available for Enterprise Case Management product cannot be used;
 - Only existing Application Rules can be used in Process Modeling Framework. If an Application Rule needs to be created it can only be of a Decision Rule type. No additional Application rules can be created when developing workflows in Process Modeling Framework barring the only exception if an Application Rule is a Decision Rule Type.

10 Third-Party Notices

10.1 Commercial Software

Commercial software used in Oracle Financial Services Analytical Applications is identified in the following table with the following license notes, restrictions, and disclaimers.

Commercial software products or components distributed in Oracle Financial Services Analytical Applications are identified in the following table along with the applicable licensing information.

Provider	Component(s)	Functionality	Licensing Information
Numerical Algorithms Group, Inc.,	DMC Mark8 ("Software"), NagC Mark 8	Third party library for statistical methods	NAG Limited © 2005 DMC Mark8 , NagC Mark 8 Portions utilize NAG's C library - All rights reserved For a copy of the license, see NAG Limited

10.2 Open Source Software

Required notices for open source software products or components distributed in Oracle Financial Services Analytical Applications 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. For the full text of each license, see Third Party Licenses in this document.

Provider	Component(s)	Functionality	Licensing Information
Apache Software Foundation	Ant Avalon-framework-.jar, Axis Apache mina sshd batik-transcoder.jar cglib.jar cglib-nodep.jar Commons CSV Commons-beanutils- commons-codec.jar Commons-collections commons-dbc.jar commons-dbc2 Commons-discovery-.jar	Scripting Platform Platform Persistence Tier and Install	Copyright © 1999-2012 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
	Commons-File upload commons-fileupload-.jar commons-io.jar Commons-lang commons-lang3 Commons-logging Commons-math.jar commons-pool.jar commons-vfs.jar dom4j.jar ezmorph.jar Fontbox Fop.jar Freemarker.jar Hadoop Hadoop+CDH Hive Hive+CDH Jacksonr jackson-core-asl.jar Jakarta-commons-digester Jakarta-commons-discovery Jakarta-oro jetty joda-time.jar Json-lib-2.x-jdk Kafka Log4J liquibase OpenCMIS opensaml.jar Pdfbox POI serializer.jar Spring Spring-web.jar sqoop-1.4.7 Struts 2 velocity.jar Xalan		

Provider	Component(s)	Functionality	Licensing Information
	Xalan Java Xerces Xerces xlr.jar xmlbeans.jar xml-resolver.jar XWork Zed Attack Proxy (ZAP)		
Atsuhiko Yamanaka, JCraft, Inc.	JSch	Enables to connect to an sshd server and use port forwarding, X11 forwarding, file transfer, and so on.	Copyright (c) 2012, Marcin Mi ³ kowski For a copy of the license, see Atsuhiko Yamanaka, JCraft, Inc.
Boost Software	Boost C++ libraries	Family of class templates that are function object wrappers	Boost Software License - Version 1.0 - August 17th, 2003 For a copy of the license, see Boost Software
Cloudera	Cloudera Standard— Apache Hadoop CDH4 Cloudera Manager CDH Cloudera Hive Connectors	Contains the main, core elements of Hadoop that provide reliable, scalable distributed data processing of large data sets, as well as other enterprise-oriented components that provide security, high availability, and integration with hardware and other software	Copyright © 1999-2012 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 .
Codehaus	Jackson	Data binding	Jackson is available under the Apache License, Version 2.0. Copyright © 1999-2012 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 .

Provider	Component(s)	Functionality	Licensing Information
Eclipse Foundation, Inc.	Eclipselink (Eclipse Distribution License - v 1.0) JDT Compiler jetty	Integrated development environment, used to develop applications	Eclipse Distribution License - v 1.0 Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors. For a copy of the license, see Eclipse, Eclipse Public License
FasterXML, LLC	jackson-core jackson-databind jackson-annotations		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 .
Free Software Foundation	GNU make	Controls the generation of executables and other non-source files of a program from the program's source files.	Copyright (C) 2007 Free Software Foundation, Inc. For a copy of the license, see Free Software Foundation
Gnuplot	Gnuplot	Portable command-line driven graphing utility for Linux, OS/2, MS Windows, OSX, VMS, and many other platforms.	Copyright 1986 - 1993, 1998, 2004 Thomas Williams, Colin Kelley For a copy of the license, see Gnuplot, V 4.6 and above
Jason Hunter and Brett McLaughlin	JDOM	Type of Java API for accessing, manipulating, and outputting XML data from Java code	Copyright (C) 2000-2004 Jason Hunter & Brett McLaughlin. For a copy of the license, see Jason Hunter and Brett McLaughlin
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Version 2, June 1991

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4th party dependencies (as mentioned in <https://github.com/Stuk/jszip/blob/master/package.json>)

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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

<https://github.com/isaacs/inherits>

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string_decoder

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safe-buffer

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util-deprecate

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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

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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>

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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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spring-beans
spring-context
spring-context-indexer
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spring-messaging
spring-oxm
spring-tx
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aspectjweaver (EPL 2.0)

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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
```

```
=====
=====
```

4th party dependencies

```
=====
=====
```

aspectjweaver (EPL 2.0)

```
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```

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

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12 Appendix – Additional Third Party Tools for FCC Studio

12.1 Third Party Tools used in Oracle Labs Data Studio

See the document [ds-lium-0.10.x.txt](#), for detailed licensing information on third party tools used in Oracle Labs Data Studio:

12.2 Third Party Tools used in Parallel Graph AnalyticX (PGX)

See the document [pgx-3.1.2-lium.txt](#) for detailed licensing information on third party tools used in Parallel Graph AnalyticX (PGX):

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