

# **Oracle Financial Services Analytical Applications Licensing Information**

**User Manual**

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**ORACLE**  
Financial Services

**ORACLE**

## 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 FSDF, OIIF and PCD
3.0	January 2019	Updated Chapter Restricted Use Licenses, with information for Financial Services Anti Money Laundering Enterprise Edition and Financial Services Fraud Enterprise Edition
4.0	February 2019	Updated content for Sanctions, EDQ and UCS
5.0	February 2019	Added content for AIF4AML
6.0	February 2019	Added content for Oracle data Integrator
7.0	September 2019	Updated Chapter Restricted Use Licenses, with information for Financial Services Trade-Based Anti Money Laundering Enterprise Edition
8.0	September 2019	Updated content for FCC Studio
9.0	August 2022	Updated the information for Oracle Financial Services Advanced Analytical Applications Infrastructure and Oracle Financial Services Data Foundation Pack.
10.0	April 2023	Added information for Oracle JET
11.0	July 2023	Added information for July2023 CPU.
12.0	July 2024	Added information for July2024 CPU.
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14.0	February 2025	Removed MRF products which are under Support Extensions (8.0.7) till Jan 2027 into a separate LIUM for MRF.
15.0	October 2025	Added information for OFS AAI 8.0.7.9.0.

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# 1 Licensing Information

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## 2 Product Family - Platform

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

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"> <li>• Analytical Applications Infrastructure</li> <li>• Big Data Processing</li> <li>• Enterprise Modeling</li> <li>• Inline Processing Engine</li> </ul> <p>Each Oracle Financial Services Analytical Application Infrastructure Extension Pack includes the following products:</p> <ul style="list-style-type: none"> <li>• Analytical Applications Infrastructure</li> <li>• Extension Pack</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites           <ul style="list-style-type: none"> <li>▪ Operating System               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux (x86-64)</li> <li>— Oracle Solaris(SPARC)</li> <li>— IBM AIX (PowerPC)</li> <li>— Shell</li> </ul> </li> <li>▪ Java Runtime Environment               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux</li> <li>— Oracle Solaris</li> <li>— IBM AIX</li> </ul> </li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP               <ul style="list-style-type: none"> <li>— Oracle Hyperion Essbase</li> <li>— Oracle OLAP</li> </ul> </li> <li>▪ Web Server/ Web Application Server               <ul style="list-style-type: none"> <li>— WebLogic</li> <li>— WebSphere</li> <li>— Apache Tomcat</li> </ul> </li> <li>▪ Oracle Labs Data Studio</li> </ul> </li> <li>• Oracle Stack Libraries used in the application pack           <ul style="list-style-type: none"> <li>▪ None</li> </ul> </li> <li>• Third party software tools used in the application pack           <ul style="list-style-type: none"> <li>▪ Apache 2.0               <ul style="list-style-type: none"> <li>— batik-transcoder</li> <li>— CodeMirror</li> <li>— commons-beanutils</li> <li>— commons-codec</li> <li>— commons-collections</li> <li>— commons-compress</li> <li>— commons-fileupload</li> <li>— commons-io</li> <li>— commons-lang</li> <li>— commons-logging</li> </ul> </li> </ul> </li> </ul>

Products	Licensing Description
	<ul style="list-style-type: none"> <li>— commons-vfs</li> <li>— Crossroads.js</li> <li>— curvesapi</li> <li>— D3</li> <li>— es5-shim</li> <li>— es6-promise</li> <li>— fop-core</li> <li>— freemarker</li> <li>— Guava</li> <li>— hammerjs</li> <li>— httpclient5</li> <li>— httpcore5</li> <li>— Jackson Annotations</li> <li>— Jackson Core</li> <li>— Jackson Databind</li> <li>— jackson-jaxrs-base</li> <li>— jackson-jaxrs-json-provider</li> <li>— jackson-module-jaxb-annotations</li> <li>— Javassist</li> <li>— jwt-api</li> <li>— jwt-jackson</li> <li>— JSZip</li> <li>— json-smart</li> <li>— json-path</li> <li>— kafka-clients</li> <li>— Log4j-API</li> <li>— log4j-core</li> <li>— log4j-web</li> <li>— math.js</li> <li>— metrics-core</li> <li>— Moment Timezone</li> <li>— Mousetrap</li> <li>— poi</li> <li>— poi-ooxml-lite</li> <li>— proj4js</li> <li>— regenerator-runtime</li> <li>— RequireJS</li> <li>— signals</li> <li>— slf4j-api</li> <li>— Spring Framework</li> <li>— spring-kafka</li> </ul>

Products	Licensing Description
	<ul style="list-style-type: none"><li>— SyntaxHighlighter</li><li>— timsort</li><li>— Underscore.js</li><li>— xmlbeans</li><li>— XML Graphics Commons</li><li>▪ BSD license<ul style="list-style-type: none"><li>— stax2-api</li></ul></li><li>▪ BSD<ul style="list-style-type: none"><li>— JSch</li></ul></li><li>▪ EPL and EDL<ul style="list-style-type: none"><li>— eclipselink (Eclipse Persistence Services Project (Eclipselink))</li></ul></li><li>▪</li><li>▪ MIT<ul style="list-style-type: none"><li>— FullCalendar</li><li>— jQuery UI</li><li>— knockout</li><li>— knockout.mapping</li></ul></li></ul>

## 3 Product Family - Risk and Finance

### 3.1 Oracle Financial Services Capital Adequacy Application Pack

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

### 3.2 Oracle Insurance International Financial Reporting Standards 17 Analyzer Pack

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

### 3.3 Oracle Financial Services International Financial Reporting Standards Pack

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

## 3.4 Oracle Financial Services Liquidity Risk Solution Pack

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

## 3.5 Oracle Financial Services Market Risk Measurement and Management Application Pack

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"> <li>• Oracle Financial Services Market Risk Measurement and Management</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> </ul> </li> <li>• Third party software tools used in the application pack</li> </ul>

Products	Licensing Description
	<ul style="list-style-type: none"><li data-bbox="932 268 1003 296">▪ CAS</li></ul>

## 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"> <li>Oracle Financial Services Data Foundation</li> </ul>	<ul style="list-style-type: none"> <li>Prerequisites           <ul style="list-style-type: none"> <li>Operating System</li> <li>Java Runtime Environment</li> <li>Oracle Database Server and Client</li> <li>OLAP</li> <li>Web Server/ Web Application Server</li> <li>Desktop Requirements</li> <li>Directory Services</li> </ul> </li> <li>Third party software tools used in the application pack           <ul style="list-style-type: none"> <li>None</li> </ul> </li> </ul>

### 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"> <li>Oracle Financial Services Data Integration</li> <li>Oracle Financial Services Oracle Fusion Accounting Hub Interface</li> <li>Oracle Financial Services Oracle FLEXCUBE Interface</li> <li>Oracle Financial Services Oracle Data Relationship Management Interface</li> <li>Oracle Financial Services Oracle Banking Platform Interface</li> </ul>	<ul style="list-style-type: none"> <li>Prerequisites           <ul style="list-style-type: none"> <li>Operating System</li> <li>Java Runtime Environment</li> <li>Oracle Database Server and Client</li> <li>Oracle Data Integrator</li> <li>Web Server/ Web Application Server</li> <li>Desktop Requirements</li> <li>Directory Services</li> </ul> </li> <li>Third party software tools used in the application pack           <ul style="list-style-type: none"> <li>Apache (Log4J; Struts; Jackson-databind; Apache POI; Jersey)</li> </ul> </li> </ul>

### 4.3 Oracle Data Integrator

Product	Licensing Description
<ul style="list-style-type: none"> <li>Oracle Data Integrator</li> </ul>	<ul style="list-style-type: none"> <li>Prerequisites           <ul style="list-style-type: none"> <li>Operating System               <ul style="list-style-type: none"> <li>Oracle Linux / Red Hat Enterprise Linux (x86-64)</li> </ul> </li> </ul> </li> </ul>

Product	Licensing Description
	<ul style="list-style-type: none"> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Database Server and Client</li> <li>▪ Web Server/ Web Application Server               <ul style="list-style-type: none"> <li>— Oracle Weblogic (Recommended)</li> <li>— Apache Tomcat</li> </ul> </li> <li>• Third party software tools used in the application pack               <ul style="list-style-type: none"> <li>▪ activation</li> <li>▪ aopalliance</li> <li>▪ bpm-infra</li> <li>▪ bsf</li> <li>▪ bsh-2.0b2</li> <li>▪ bsh-2.0b4</li> <li>▪ com-jcraft-jsch</li> <li>▪ commons-beanutils</li> <li>▪ commons-codec</li> <li>▪ commons-codec</li> <li>▪ commons-collections</li> <li>▪ commons-collections</li> <li>▪ commons-discovery</li> <li>▪ commons-httpclient</li> <li>▪ commons-io</li> <li>▪ commons-lang</li> <li>▪ commons-logging</li> <li>▪ commons-net</li> <li>▪ commons-vfs</li> <li>▪ commons-vfs2</li> <li>▪ connector</li> <li>▪ cpld</li> <li>▪ dms</li> <li>▪ eclipselink-dbwsutils</li> <li>▪ eclipselink</li> <li>▪ enterprise_data_quality</li> <li>▪ ess_es_server</li> <li>▪ ess_japi</li> <li>▪ groovy-all</li> <li>▪ gson</li> <li>▪ HspJS</li> <li>▪ hsqldb.jar</li> <li>▪ identitystore</li> <li>▪ identityutils</li> <li>▪ jackson-core-asl</li> </ul> </li> </ul>

Product	Licensing Description
	<ul style="list-style-type: none"> <li>▪ jackson-mapper-asl</li> <li>▪ jakarta-oro</li> <li>▪ javax.persistence-src</li> <li>▪ javax.persistence</li> <li>▪ javax.validation</li> <li>▪ javolution</li> <li>▪ jms</li> <li>▪ jps-api</li> <li>▪ jsch</li> <li>▪ json-path</li> <li>▪ jython</li> <li>▪ jzlib</li> <li>▪ log4j</li> <li>▪ mimepull</li> <li>▪ odi-core</li> <li>▪ odi-sap</li> <li>▪ odi-wls-template-gen</li> <li>▪ odihapp_common</li> <li>▪ odihapp_essbase</li> <li>▪ odihapp_planning</li> <li>▪ odi_hfm</li> <li>▪ ogg_jmx_interface</li> <li>▪ ojdbc8</li> <li>▪ ojdl</li> <li>▪ oracle.odi-jaxrsri</li> <li>▪ oracle.odi-sdk-jse</li> <li>▪ oracle.ucp.jar</li> <li>▪ org.codehaus.jackson.jackson-core-asl</li> <li>▪ org.codehaus.jackson.jackson-mapper-asl</li> <li>▪ org.eclipse.jgit_3.6.2.201501210735-r</li> <li>▪ org.jvnet.mimepull.mimepull</li> <li>▪ pop</li> <li>▪ sapjco</li> <li>▪ sapjco</li> <li>▪ slf4j-api</li> <li>▪ spring-aop</li> <li>▪ spring-beans</li> <li>▪ spring-context-support</li> <li>▪ spring-context</li> <li>▪ spring-core</li> <li>▪ spring-dao</li> </ul>

Product	Licensing Description
	<ul style="list-style-type: none"> <li>▪ spring-expression</li> <li>▪ spring-instrument-tomcat</li> <li>▪ spring-instrument</li> <li>▪ spring-jdbc</li> <li>▪ spring-jms</li> <li>▪ spring-jmx</li> <li>▪ spring-jpa</li> <li>▪ spring-orm</li> <li>▪ spring-oxm</li> <li>▪ spring-struts</li> <li>▪ spring-test</li> <li>▪ spring-tx</li> <li>▪ spring-web</li> <li>▪ spring-webmvc-portlet</li> <li>▪ spring-webmvc</li> <li>▪ staxon-1.0</li> <li>▪ staxon-jackson</li> <li>▪ svnkit</li> <li>▪ trilead-ssh2</li> <li>▪ trove</li> <li>▪ wls-api</li> <li>▪ woodstox</li> <li>▪ XmlSchema</li> </ul>

## 4.4 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"> <li>• Oracle Financial Services Reconciliation Framework</li> <li>• Oracle Financial Services Data Governance for US Regulatory Reporting</li> <li>• Oracle Financial Services Data Governance for European Central Reporting</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> </ul> </li> <li>• Third party software tools used in the application pack <ul style="list-style-type: none"> <li>▪ None</li> </ul> </li> </ul>

## 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"> <li>Oracle Financial Services AgileREPORTER Application</li> </ul>	<ul style="list-style-type: none"> <li>Prerequisites <ul style="list-style-type: none"> <li>Operating System</li> <li>Java Runtime Environment</li> <li>Oracle Financial Services Data Foundation 8.0.7 Application Pack</li> <li>Oracle Database Server and Client</li> <li>OLAP</li> <li>Web Server/ Web Application Server</li> <li>Desktop Requirements</li> <li>Directory Services</li> </ul> </li> <li>Third party software tools used in the application pack <ul style="list-style-type: none"> <li>Lombard Risk Reporting Portal</li> </ul> </li> </ul>

### 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"> <li>Oracle Financial Services AgileREPORTER Application</li> </ul>	<ul style="list-style-type: none"> <li>Prerequisites <ul style="list-style-type: none"> <li>Operating System</li> <li>Java Runtime Environment</li> <li>Oracle Financial Services Data Foundation 8.0.7 Application Pack</li> <li>Oracle Database Server and Client</li> <li>OLAP</li> <li>Web Server/ Web Application Server</li> <li>Desktop Requirements</li> <li>Directory Services</li> </ul> </li> <li>Third party software tools used in the application pack <ul style="list-style-type: none"> <li>Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 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"> <li>Oracle Financial Services Regulatory Reporting for European Banking Authority (OFS AGILE RP EBA)</li> </ul>	<ul style="list-style-type: none"> <li>Prerequisites <ul style="list-style-type: none"> <li>Operating System</li> <li>Java Runtime Environment</li> <li>Oracle Financial Services Data Foundation 8.0.7 Application Pack</li> <li>Oracle Database Server and Client</li> <li>OLAP</li> <li>Web Server/ Web Application Server</li> <li>Desktop Requirements</li> <li>Directory Services</li> </ul> </li> <li>Third party software tools used in the application pack <ul style="list-style-type: none"> <li>Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 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"> <li>Oracle Financial Services AgileREPORTER Application</li> </ul>	<ul style="list-style-type: none"> <li>Prerequisites <ul style="list-style-type: none"> <li>Operating System</li> <li>Java Runtime Environment</li> <li>Oracle Financial Services Data Foundation 8.0.7 Application Pack</li> <li>Oracle Database Server and Client</li> <li>OLAP</li> <li>Web Server/ Web Application Server</li> <li>Desktop Requirements</li> <li>Directory Services</li> </ul> </li> <li>Third party software tools used in the application pack <ul style="list-style-type: none"> <li>Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 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</p>	<ul style="list-style-type: none"> <li>Prerequisites</li> </ul>

Products	Licensing Description
<p>Risk Integration Pack (OFS REG REP RBI) application pack includes the following product:</p> <ul style="list-style-type: none"> <li>Oracle Financial Services Regulatory Reporting for Reserve Bank of India (OFS AGILE RP RBI)</li> </ul>	<ul style="list-style-type: none"> <li>Operating System</li> <li>Java Runtime Environment</li> <li>Oracle Financial Services Data Foundation 8.0.7 Application Pack</li> <li>Oracle Database Server and Client</li> <li>OLAP</li> <li>Web Server/ Web Application Server</li> <li>Desktop Requirements</li> <li>Directory Services</li> <li>Third party software tools used in the application pack <ul style="list-style-type: none"> <li>Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 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"> <li>Oracle Financial Services Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED)</li> </ul>	<ul style="list-style-type: none"> <li>Prerequisites <ul style="list-style-type: none"> <li>Operating System</li> <li>Java Runtime Environment</li> <li>Oracle Financial Services Data Foundation 8.0.7 Application Pack</li> <li>Oracle Database Server and Client</li> <li>OLAP</li> <li>Web Server/ Web Application Server</li> <li>Desktop Requirements</li> <li>Directory Services</li> </ul> </li> <li>Third party software tools used in the application pack <ul style="list-style-type: none"> <li>Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 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"> <li>Oracle Financial Services AgileREPORTER Application</li> </ul>	<ul style="list-style-type: none"> <li>Prerequisites <ul style="list-style-type: none"> <li>Operating System</li> <li>Java Runtime Environment</li> <li>Oracle Financial Services Data Foundation 8.0.7 Application Pack</li> <li>Oracle Database Server and Client</li> </ul> </li> </ul>

Products	Licensing Description
	<ul style="list-style-type: none"> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> <li>• Third party software tools used in the application pack <ul style="list-style-type: none"> <li>▪ Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 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"> <li>• Oracle Financial Services AgileREPORTER Application</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Financial Services Data Foundation 8.0.7 Application Pack</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> </ul> </li> <li>• Third party software tools used in the application pack <ul style="list-style-type: none"> <li>▪ Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 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"> <li>• Oracle Financial Services Regulatory Reporting for US Treasury (OFS AGILE RP US Treasury)</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites               <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Financial Services Data Foundation 8.0.7 Application Pack</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> </ul> </li> <li>• Third party software tools used in the application pack               <ul style="list-style-type: none"> <li>▪ Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 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"> <li>• Oracle Financial Services AgileREPORTER Application</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites               <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Financial Services Data Foundation 8.0.7 Application Pack</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> </ul> </li> <li>• Third party software tools used in the application pack               <ul style="list-style-type: none"> <li>▪ Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 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"> <li>• Lombard Risk Reporting Portal</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Financial Services Data Foundation 8.0.7 Application Pack</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> </ul> </li> <li>• Third party software tools used in the application pack <ul style="list-style-type: none"> <li>▪ Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 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"> <li>• Anti Money Laundering Event Scoring</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites           <ul style="list-style-type: none"> <li>▪ Operating System               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux (x86-64)</li> </ul> </li> <li>▪ Java Runtime Environment               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux</li> </ul> </li> <li>▪ Oracle Database Server and Client               <ul style="list-style-type: none"> <li>— Oracle Database Server Enterprise Edition 12c Release 1 (12.1.0.1.0 +)</li> <li>— Oracle Client 12c Release 1 (12.1.0.1.0+)</li> <li>— Oracle 12C Release 1 (12.1.0.1+) JDBC driver (Oracle thin driver)</li> <li>— Oracle R Distribution version 3.3</li> <li>— Oracle R Enterprise (Server) version 1.5.1</li> </ul> </li> <li>▪ Web Server/ Web Application Server               <ul style="list-style-type: none"> <li>— Oracle WebLogic</li> <li>— IBM WebSphere</li> <li>— Apache Tomcat</li> </ul> </li> </ul> </li> <li>• Third party software tools used in the application pack           <ul style="list-style-type: none"> <li>▪ CRAN R               <ul style="list-style-type: none"> <li>— xgboost</li> <li>— jsonlite</li> </ul> </li> </ul> </li> </ul>

## 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"> <li>• Oracle Financial Services Inline Processing Engine (OFS IPE)</li> <li>• Oracle Financial Services Anti-Money Laundering (OFS AML)</li> <li>• Oracle Financial Services Fraud Management Enterprise Edition (OFS FM EE)</li> <li>• Oracle Financial Services Trading Compliance (OFS TC)</li> <li>• Oracle Financial Services Trade Blotter (OFS TB)</li> <li>• Oracle Financial Services Personal Trading Approval (OFS PTA)</li> <li>• Oracle Financial Services Broker Compliance (OFS BC)</li> <li>• Oracle Financial Services Energy and Commodity Trading Compliance (OFS ECTC)</li> <li>• Oracle Financial Services Know Your Customer (OFS KYC)</li> <li>• Oracle Financial Services Currency Transaction Reporting (OFS CTR)</li> <li>• Oracle Financial Services Foreign Account Tax Compliance Act (OFS FATCA) Management</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites           <ul style="list-style-type: none"> <li>▪ Operating System               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux (x86-64)</li> <li>— Oracle Solaris(SPARC)</li> <li>— IBM AIX (PowerPC)</li> <li>— Shell</li> </ul> </li> <li>▪ Java Runtime Environment               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux</li> <li>— Oracle Solaris</li> <li>— IBM AIX</li> </ul> </li> <li>▪ Oracle Database Server and Client</li> <li>▪ Web Server/ Web Application Server               <ul style="list-style-type: none"> <li>— WebLogic</li> <li>— WebSphere</li> <li>— Apache Tomcat</li> </ul> </li> </ul> </li> <li>• Third party software tools used in the application pack           <ul style="list-style-type: none"> <li>▪ None</li> </ul> </li> </ul>

## 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"> <li>• Compliance Regulatory Reporting</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites           <ul style="list-style-type: none"> <li>▪ Operating System               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux (x86-64)</li> </ul> </li> <li>▪ Java Runtime Environment               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux</li> <li>— Oracle Solaris</li> <li>— IBM AIX</li> </ul> </li> <li>▪ Oracle Database Server and Client</li> <li>▪ Web Server/Web Application Server</li> </ul> </li> <li>• Third party software tools used in the application pack           <ul style="list-style-type: none"> <li>▪ Eclipselink</li> </ul> </li> </ul>

## 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"> <li>• Oracle Financial Services Enterprise Case Management (ECM)</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites           <ul style="list-style-type: none"> <li>▪ Operating System               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux (x86-64)</li> <li>— Oracle Solaris(SPARC)</li> <li>— IBM AIX (PowerPC)</li> <li>— Shell</li> </ul> </li> <li>▪ Java Runtime Environment               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux</li> <li>— Oracle Solaris</li> <li>— IBM AIX</li> </ul> </li> <li>▪ Oracle Database Server and Client</li> <li>▪ Web Application Server               <ul style="list-style-type: none"> <li>— WebLogic</li> <li>— WebSphere</li> <li>— Apache Tomcat</li> </ul> </li> </ul> </li> <li>• Third party software tools used in the application pack           <ul style="list-style-type: none"> <li>▪ Fontbox</li> <li>▪ Pdfbox</li> </ul> </li> </ul>

## 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"> <li>• Oracle Financial Services Transaction Filtering</li> <li>• Oracle Financial Services Customer Screening</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites           <ul style="list-style-type: none"> <li>▪ Operating System               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux (x86-64)</li> <li>— Oracle Solaris(SPARC)</li> <li>— IBM AIX (PowerPC)</li> <li>— Shell</li> </ul> </li> <li>▪ Java Runtime Environment               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux</li> <li>— Oracle Solaris</li> <li>— IBM AIX</li> </ul> </li> <li>▪ Oracle Database Server and Client</li> <li>▪ Web Server/ Web Application Server               <ul style="list-style-type: none"> <li>— WebLogic</li> <li>— WebSphere</li> <li>— Apache Tomcat</li> </ul> </li> <li>▪ EDQ               <ul style="list-style-type: none"> <li>— 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.</li> </ul> </li> </ul> </li> <li>• Third party software tools used in the Application Pack           <ul style="list-style-type: none"> <li>▪ None</li> </ul> </li> </ul>

## 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"> <li>Oracle Enterprise Data Quality</li> </ul>	<ul style="list-style-type: none"> <li>Prerequisites           <ul style="list-style-type: none"> <li>Operating System               <ul style="list-style-type: none"> <li>Oracle Linux / Red Hat Enterprise Linux (x86-64)</li> </ul> </li> <li>Java Runtime Environment               <ul style="list-style-type: none"> <li>Oracle Linux / Red Hat Enterprise Linux</li> </ul> </li> <li>Oracle Database Server and Client</li> <li>Web Server/ Web Application Server               <ul style="list-style-type: none"> <li>Oracle Weblogic (Recommended)</li> <li>Apache Tomcat</li> </ul> </li> </ul> </li> <li>Third party software tools used in the application pack           <ul style="list-style-type: none"> <li>commonslang; Apache Commons DBCP; Commons Pool; Apache Derby; Apache Derby; Apache FOP; Apache FTP Server; Apache Jakarta Commons HttpClient; Apache Commons Pool; HttpComponents; HttpClient; Apache Lucene; Apache Mina SSHD; Apache POI; Commons Codec; httpmime; Jakarta Commons DBCP; Log4j</li> <li>Apache Commons Logging; Apache Commons Logging; Apache Commons Logging</li> <li>JDOM</li> <li>Jaxen</li> </ul> </li> </ul>

## 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"> <li>Oracle Financial Services Trade Based Anti Money Laundering (OFS TBAML)</li> </ul>	<ul style="list-style-type: none"> <li>Prerequisites           <ul style="list-style-type: none"> <li>Operating System               <ul style="list-style-type: none"> <li>Oracle Linux / Red Hat Enterprise Linux (x86-64)</li> </ul> </li> <li>Java Runtime Environment               <ul style="list-style-type: none"> <li>Oracle Linux / Red Hat Enterprise Linux</li> </ul> </li> <li>Oracle Database Server and Client</li> <li>OLAP</li> <li>Web Server/ Web Application Server               <ul style="list-style-type: none"> <li>WebLogic</li> <li>Websphere</li> </ul> </li> <li>Oracle Enterprise Data Quality for Oracle Financial Services Analytical Applications (Oracle EDQ)</li> </ul> </li> <li>Third party software tools used in the application pack</li> </ul>

Products	Licensing Description
	<ul style="list-style-type: none"> <li>▪ None</li> </ul>

## 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"> <li>• Oracle Financial Services Universal Customer Screening (OFS UCS)</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites <ul style="list-style-type: none"> <li>▪ EDQ for UCS</li> </ul> </li> <li>• Third party software tools used in the application pack <ul style="list-style-type: none"> <li>▪ None</li> </ul> </li> </ul>

## 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"> <li>• Adaptive Intelligence Foundation for Anti Money Laundering</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites <ul style="list-style-type: none"> <li>▪ Operating System <ul style="list-style-type: none"> <li>— Oracle Linux/Red Hat Enterprise Linux (x86-64)</li> </ul> </li> <li>▪ Java Runtime Environment <ul style="list-style-type: none"> <li>— Oracle Linux/Red Hat Enterprise Linux</li> </ul> </li> <li>▪ Oracle Database Server and Client <ul style="list-style-type: none"> <li>— Oracle Database Server Enterprise Edition 12c Release 1 (12.1.0.1.0 +)</li> <li>— Oracle Client 12c Release 1 (12.1.0.1.0+)</li> <li>— Oracle 12C Release 1 (12.1.0.1+) JDBC driver (Oracle thin driver)</li> <li>— Oracle R Distribution version 3.3</li> <li>— Oracle R Enterprise (Server) version 1.5.1</li> </ul> </li> <li>▪ OFS BD Application Pack 8.0.7.0.0</li> <li>▪ OFS FCC Studio Application Pack 8.0.7.0.0</li> </ul> </li> <li>• Third party software tools used in the application pack <ul style="list-style-type: none"> <li>▪ CRAN R <ul style="list-style-type: none"> <li>— jsonlite</li> <li>— xgboost</li> </ul> </li> </ul> </li> </ul>

## 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"> <li>• Oracle Financial Services Financial Crime and Compliance Studio. The application is integrated with the following applications: <ul style="list-style-type: none"> <li>▪ Oracle Labs Data Studio</li> <li>▪ Parallel Graph AnalyticX (PGX)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites <ul style="list-style-type: none"> <li>▪ Operating System <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux (x86-64)</li> </ul> </li> <li>▪ Java Runtime Environment <ul style="list-style-type: none"> <li>— JDK 1.8 and above</li> </ul> </li> <li>▪ Oracle Database Server and Client</li> </ul> </li> <li>• Thirds party software tools used in the application pack <ul style="list-style-type: none"> <li>— Apache mina sshd</li> <li>— commons-dbcp2</li> <li>— commons-lang3</li> <li>— Hadoop</li> <li>— jackson-annotations</li> <li>— jackson-core</li> <li>— jackson-databind</li> <li>— jetty</li> <li>— json</li> <li>— liquibase</li> <li>— log4j</li> <li>— slf4j</li> <li>— spring</li> <li>— spring boot</li> </ul> </li> </ul> <p>See <a href="#">Appendix – Additional Third Party Tools for FCC Studio</a> for information of third party tools used in Oracle Labs data Studio &amp; Parallel Graph AnalyticX, and the respective licensing information.</p>

## 7 Product Family - Customer Insight

### 7.1 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"> <li>• Retail Customer Analytics</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites           <ul style="list-style-type: none"> <li>▪ Operating System               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux (x86-64)</li> <li>— Oracle Solaris(SPARC)</li> <li>— IBM AIX (PowerPC)</li> <li>— Oracle Solaris v5.11</li> </ul> </li> <li>▪ Java Runtime Environment               <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux</li> <li>— Oracle Solaris</li> <li>— IBM AIX</li> </ul> </li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP               <ul style="list-style-type: none"> <li>— Oracle Hyperion Essbase</li> <li>— Oracle OLAP</li> </ul> </li> <li>▪ Web Server/Web Application Server</li> <li>▪ Oracle R Advanced Analytics for Hadoop               <ul style="list-style-type: none"> <li>— Oracle Loader For Hadoop (OLH) v 3.2</li> </ul> </li> </ul> </li> <li>• Third party software tools used in the application pack           <ul style="list-style-type: none"> <li>▪ None</li> </ul> </li> </ul>

## 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"><li>• Oracle Insurance Data Foundation</li></ul>	<ul style="list-style-type: none"><li>• Prerequisites<ul style="list-style-type: none"><li>▪ Operating System</li><li>▪ Java Runtime Environment</li><li>▪ Oracle Database Server and Client</li><li>▪ OLAP</li><li>▪ Web Server/ Web Application Server</li><li>▪ Desktop Requirements</li><li>▪ Directory Services</li></ul></li><li>• Third party software tools used in the application pack<ul style="list-style-type: none"><li>▪ None</li></ul></li></ul>

## 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;
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Dependency 2:

ASM

ASM: a very small and fast Java bytecode manipulation framework

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expression-eval - v2.0.0

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Normalize.scss

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RequireJS i18n 2.0.2

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

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

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select2.js

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

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

<http://jqueryui.com>

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

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jQuery JavaScript Library v3.6.0

<http://jquery.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-aspects

spring-beans

spring-context

spring-context-indexer  
spring-expression  
spring-jcl  
spring-jdbc  
spring-jms  
spring-messaging  
spring-oxm  
spring-tx  
spring-web  
spring-webmvc

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4th party dependencies

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aspectjweaver (EPL 2.0)

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spring-tx  
spring-web  
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### **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)**

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