Oracle® Financial Services
Analytical Applications
Licensing Information User Manual
Release 8.0.1.0.0
E65880-01

September 2015
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Introduction

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# Licensing Information

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<th>Licensing Description</th>
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<tr>
<td>Oracle Financial Services Analytical</td>
<td>Oracle Financial Services Advanced Analytical</td>
<td></td>
</tr>
<tr>
<td>Applications 8.0.0.0.0</td>
<td>Applications Infrastructure</td>
<td></td>
</tr>
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</table>

**Products Included In The Application Pack**

Each Oracle Financial Services Advanced Analytical Applications Infrastructure (OFS AAAI) Application Pack includes the following applications:

- Analytical Applications Infrastructure
- Enterprise Modeling
- Inline Processing Engine

**Prerequisites**

- **Operating System**
  - Oracle Linux / Red Hat Enterprise Linux (x86-64)
  - Oracle Solaris (SPARC)
  - IBM AIX (PowerPC)
  - Shell
- **Java Runtime Environment**
  - Oracle Linux / Red Hat Enterprise Linux
  - Oracle Solaris
  - IBM AIX
- **Oracle Database Server and Client**
- **OLAP**
  - Oracle Hyperion Essbase
  - Oracle OLAP
- **Web Server**
  - Oracle Linux / Red Hat Enterprise Linux
  - Oracle Solaris
  - IBM AIX
- **Web Application Server**
  - WebLogic
  - WebSphere
  - Apache Tomcat

**Third party software tools used in the Application Pack**

- Apache (Ant 1.7, 1.6.2; Apache POI 3.6; Commons-File upload1.0; Log4J (1.2.8, 1.2.13, 1.2.15, 1.3); Xalan Java 2.7.1; Xalan-Java2 2.7; Xerces 1.1, C++, 1.6, 2.4, 2.5, 2.6, 2.7, 2.7.0; Avalon-framework-4.1.3.jar; fop.jar 1.0; Jakarta-oro 2.0.8; commons-discovery-0.2.jar)
- Cloudera Standard—Apache Hadoop CDH4
- Jackson 2.4.3
- gnuplot 4.6 and later
- JDOM 1.1
- Dom4j 1.6.1
- DMC Mark8, NagC Mark 8
- relaxingDatatype.jar
### Licensing Information

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<th>Product</th>
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<td>Oracle Financial Services Data Management</td>
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<td>• YUI (Yahoo User Interface) Library (2.5.2, 2.6)</td>
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<td></td>
<td></td>
<td>• JDT Compiler 5.5</td>
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<td>Oracle Financial Services Data Management</td>
<td><strong>Products Included In The Application Pack</strong></td>
<td>Each Oracle Financial Services Data Management (OFS DM) Application Pack includes the following applications:</td>
</tr>
<tr>
<td></td>
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<td>• Financial Services Reconciliation Framework</td>
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<td>• Operating System</td>
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<td>• Java Runtime Environment</td>
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<td>• Oracle Database Server and Client</td>
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<td>• OLAP</td>
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<td>• Web Server/ Web Application Server</td>
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<td>• Desktop Requirements</td>
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<td>• Directory Services</td>
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<td><strong>Third party software tools used in the Application Pack</strong></td>
<td>• Apache (Sturts 2 (2.3.16.3); Log4J (1.2.8, 1.2.13, 1.2.15, 1.3); XWork 2.3.16.3; Commons-lang3 (3.1); Commons-beanutils-1.8.3)</td>
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<td>Oracle Financial Services Asset and</td>
<td><strong>Products Included In The Application Pack</strong></td>
<td>Each Oracle Financial Services Asset and Liability Management (OFS ALM) Application Pack includes the following applications:</td>
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<td>Liability Management Applications</td>
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<td>• Oracle Financial Services Analytical Applications Infrastructure (OFS AAI)</td>
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<td></td>
<td></td>
<td>• Oracle Financial Services Asset Liability Management (OFS ALM)</td>
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<td>• Oracle Financial Services Asset Liability Management Analytics (OFS ALMBI)</td>
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<td>• Java Runtime Environment</td>
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<td>• Oracle Database Server and Client</td>
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<td>Product</td>
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<td>o Oracle Hyperion Essbase</td>
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<td>o Oracle OLAP</td>
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<tr>
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<td>• Web Server</td>
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<td>o Oracle Linux / Red Hat Enterprise Linux</td>
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<td>o WebLogic</td>
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<td></td>
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<td>o WebSphere</td>
</tr>
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<td></td>
<td></td>
<td>o Apache Tomcat</td>
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<td></td>
<td><strong>Third party software tools used in the Application Pack</strong></td>
</tr>
<tr>
<td></td>
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<td>• Apache (Sturts 2 (2.3.16.3); XWork 2.3.16.3; Commons-lang3 (3.1); Commons-logging 1.1.3</td>
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<td>• FreeMarker 2.3.19</td>
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### Oracle Financial Services Balance Sheet Planning

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<tr>
<th><strong>Products Included In The Application Pack</strong></th>
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<tbody>
<tr>
<td>Each Oracle Financial Services Balance Sheet Planning (OFS BSP) Application Pack includes the following application:</td>
</tr>
<tr>
<td>• Oracle Financial Services Balance Sheet Planning (OFS BSP)</td>
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</table>

<table>
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<tr>
<th><strong>Prerequisites</strong></th>
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<tbody>
<tr>
<td>• Hyperion 11.1.2.4</td>
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<td>• Two Database users / schemas</td>
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<table>
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<tr>
<th><strong>Third party software tools used in the Application Pack</strong></th>
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<tbody>
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### Oracle Financial Services Behavior Detection Applications

<table>
<thead>
<tr>
<th><strong>Products Included In The Application Pack</strong></th>
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</thead>
<tbody>
<tr>
<td>Each Oracle Financial Services Behavior Detection (OFS BD) Applications Pack includes the following application:</td>
</tr>
<tr>
<td>• Oracle Financial Services Inline Processing Engine (OFS IPE)</td>
</tr>
<tr>
<td>• Oracle Financial Services Anti-Money Laundering (OFS AML)</td>
</tr>
<tr>
<td>• Oracle Financial Services Fraud Management Enterprise Edition (OFS FM EE)</td>
</tr>
<tr>
<td>• Oracle Financial Services Trading Compliance (OFS TC)</td>
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<tr>
<td>• Oracle Financial Services Trade Blotter (OFS TB)</td>
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<tr>
<td>• Oracle Financial Services Personal Trading Approval (OFS PTA)</td>
</tr>
<tr>
<td>• Oracle Financial Services Broker Compliance (OFS BC)</td>
</tr>
<tr>
<td>• Oracle Financial Services Energy and Commodity Trading Compliance (OFS ECTC)</td>
</tr>
<tr>
<td>Product</td>
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<tr>
<td>---------</td>
</tr>
<tr>
<td>Oracle Financial Services Enterprise Case Management (OFS ECM)</td>
</tr>
<tr>
<td>Oracle Financial Services Know Your Customer (OFS KYC)</td>
</tr>
<tr>
<td>Oracle Financial Services Currency Transaction Reporting (OFS CTR)</td>
</tr>
<tr>
<td>Oracle Financial Services Foreign Account Tax Compliance Act (OFS FATCA) Management</td>
</tr>
</tbody>
</table>

**Prerequisites**

- **Operating System**
  - Oracle Linux / Red Hat Enterprise Linux (x86-64)
  - Oracle Solaris (SPARC)
  - IBM AIX (PowerPC)
  - Shell
- **Java Runtime Environment**
  - Oracle Linux / Red Hat Enterprise Linux
  - Oracle Solaris
  - IBM AIX
- **Oracle Database Server and Client**
- **Web Server**
  - Oracle Linux / Red Hat Enterprise Linux
  - Oracle Solaris
- **Web Application Server**
  - WebLogic
  - WebSphere
  - Apache Tomcat

**Third party software tools used in the Application Pack**

- Apache (Ant 1.7, 1.6.2; Commons CSV 1.0; Xalan 2.7.1; Xerces 2.8.1, 2.0.1; dbcp (commons-dbcp-1.2.1.jar); Jakarta-commons-digester1.7; Jakarta-commons-discovery 0.4; Spring-web.jar 2.0)
- JSch 0.1.4.9
- GNU make 3.82
- jaxen-core.jar 1.0, jaxen-jdom.jar 1.1.6
- Saxpath (Simple API for Xpath) 1.0

**Oracle Financial Services Compliance Regulatory Reporting Application**

**Products Included In The Application Pack**

Each Oracle Financial Services Compliance Regulatory Reporting Application Pack includes the following application:

- Compliance Regulatory Reporting

**Prerequisites**

- **Operating System**
  - Oracle Linux / Red Hat Enterprise Linux (x86-64)
- **Java Runtime Environment**
<table>
<thead>
<tr>
<th>Product</th>
<th>Sub product</th>
<th>Licensing Description</th>
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</table>
|         |             | - Oracle Linux / Red Hat Enterprise Linux  
|         |             | - Oracle Solaris  
|         |             | - IBM AIX  
|         |             | - Oracle Database Server and Client  
|         |             | - Web Server/Web Application Server  
|         |             | - Oracle Linux / Red Hat Enterprise Linux  
|         |             | - Oracle Solaris  
|         |             | - IBM AIX  

**Third party software tools used in the Application Pack**

None

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**Oracle Financial Services Capital Adequacy Applications**

**Products Included In The Application Pack**

Each Oracle Financial Services Capital Adequacy (OFS CAPADQ) Application Pack includes the following application:

- Oracle Financial Services Economic Capital Advanced
- Oracle Financial Services Basel Regulatory Capital Basic
- Oracle Financial Services Basel Regulatory Capital Internal Ratings Based Approach
- Oracle Financial Services Basel Regulatory Capital Analytics
- Oracle Financial Services Operational Risk Economic Capital
- Oracle Financial Services Retail Portfolio Risk Models and Pooling

**Prerequisites**

- 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**

- NagC Mark8, DMC Mark8
<table>
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<tr>
<th>Product</th>
<th>Sub product</th>
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</thead>
</table>
| Oracle Financial Services Credit Risk Management Applications | | **Products Included In The Application Pack**  
Each Oracle Financial Services Credit Risk Management (OFS CRM) Application Pack includes the following application:  
- Oracle Financial Services Credit Risk Management  
**Prerequisites**  
- Operating System  
- Java Runtime  
- Environment  
- Oracle Database Server and Client  
- OLAP  
- Web Server/Web Application Server  
- Desktop Requirements  
- Directory Services  
**Third party software tools used in the Application Pack**  
None |
| Oracle Financial Services Customer Analytics Applications | | **Product Included In The Application Pack**  
Each Oracle Financial Services Customer Analytics (OFS CA) Application Pack includes the following application:  
- Retail Customer Analytics  
**Prerequisites**  
- Operating System  
  - Oracle Linux / Red Hat Enterprise Linux (x86-64)  
  - Oracle Solaris (SPARC)  
  - IBM AIX (PowerPC)  
  - Oracle Solaris v5.11  
- Java Runtime Environment  
  - Oracle Linux / Red Hat Enterprise Linux  
  - Oracle Solaris  
  - IBM AIX  
- Oracle Database Server and Client  
- OLAP  
  - Oracle Hyperion Essbase  
  - Oracle OLAP  
- Web Server/Web Application Server  
  - Oracle Linux / Red Hat Enterprise Linux |
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<td>Oracle Financial Services Data Integration</td>
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<tr>
<td>Oracle Financial Services Enterprise Stress Testing and Capital Planning Applications</td>
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<td><strong>Products Included In The Application Pack</strong></td>
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<td>Each Oracle Financial Services Data Integration (OFS DI) Application Pack includes the following application:</td>
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<td>• Oracle Financial Services DI Oracle Fusion Accounting Hub Interface</td>
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<td>• Oracle Financial Services DI Oracle FLEXCUBE Interface</td>
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<td>• Oracle Financial Services DI Oracle Data Relationship Management Interface</td>
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<td>• Oracle Financial Services DI Oracle Banking Platform</td>
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<td><strong>Third party software tools used in the Application Pack</strong></td>
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<tr>
<td></td>
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<td>• Apache (Log4J (1,2,16); Sturts 2 (2.3.16.3); XWork 2.3.16.3)</td>
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## Licensing Information

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<td></td>
<td>- Oracle Financial Services ICAAP Analytics</td>
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</table>

### Prerequisites

- Operating System
- Java Runtime Environment
- Oracle Database Server and Client
- OLAP
- Web Server/ Web Application Server
- Desktop Requirements
- Directory Services

**Third party software tools used in the Application Pack**

None

<table>
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<tr>
<th>Oracle Financial Services Foundation Applications</th>
<th>Products Included In The Application Pack</th>
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<tr>
<td></td>
<td>Each Oracle Financial Services Data Foundation (OFSDF) Applications Application Pack includes the following applications:</td>
</tr>
<tr>
<td></td>
<td>- Oracle Financial Services Data Foundation</td>
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</table>

### Prerequisites

- Operating System
- Java Runtime Environment
- Oracle Database Server and Client
- OLAP
- Web Server/ Web Application Server
- Server
- Desktop Requirements
- Directory Services

**Third party software tools used in the Application Pack**

None

<table>
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<tr>
<th>Oracle Financial Services Governance Risk and Compliance Applications</th>
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<td>Each Oracle Financial Services Governance Risk and Compliance (OFS GRC) Applications Application Pack includes the following applications:</td>
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<td>- Oracle Financial Services Operational Risk (OR)</td>
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<td>- Oracle Financial Services Governance and</td>
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<tr>
<td>Product</td>
<td>Sub product</td>
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</tbody>
</table>
| Compliance Management (GCM) | • Oracle Financial Services Operational Risk Analytics (ORA)  
• Oracle Financial Services Enterprise Risk Assessment (ERA)  
• Oracle Financial Services Model Risk Management (MRM) |
| Prerequisites | • Operating System  
  o Oracle Linux / Red Hat Enterprise Linux (x86-64)  
  o Oracle Solaris(SPARC)  
  o IBM AIX (PowerPC)  
  o Shell  
• Java Runtime Environment  
  o Oracle Linux / Red Hat Enterprise Linux  
  o Oracle Solaris  
  o IBM AIX  
• Oracle Database Server and Client  
• Web Server  
  o Oracle Linux / Red Hat Enterprise Linux  
  o Oracle Solaris  
  o IBM AIX  
• Web Application Server  
  o WebLogic  
  o WebSphere  
  o Apache Tomcat |
| Third party software tools used in the Application Pack | • Apache (Commons-collections 3.2.1; Commons-lang3 3.1; Commons-logging 1.1.3; Json-lib-2.2.2-jdk15; Commons-beanutils-1.7)  
• Eclipselink 1.1.2 |

Oracle Financial Services International Financial Reporting Standards Application

Products Included In The Application Pack
Each Oracle Financial Services International Financial Reporting Standards (OFS IFRS) Applications Application Pack includes the following applications:
• Oracle Financial Services Loan Loss Forecasting and Provisioning  
• Oracle Financial Services Hedge Management and IFRS Valuations
<table>
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<td>Applications</td>
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Each Oracle Financial Services Pricing Management (OFS PM) Applications Application Pack includes the following applications:

• Oracle Financial Services Pricing Management

**Prerequisites**

• Operating System
  - Oracle Linux / Red Hat Enterprise Linux (x86-64)
  - Oracle Solaris(SPARC)
  - IBM AIX (PowerPC)
  - Shell

• Java Runtime Environment
  - Oracle Linux / Red Hat Enterprise Linux
  - Oracle Solaris
  - IBM AIX

• Oracle Database Server and Client

• OLAP
  - Oracle Hyperion Essbase
  - Oracle OLAP

• Web Server
  - Oracle Linux / Red Hat Enterprise Linux
  - Oracle Solaris
  - IBM AIX

• Web Application Server
  - WebLogic
  - WebSphere
  - Apache Tomcat
## Licensing Information

### Third party software tools used in the Application Pack
- Apache (Sturts 2 (2.3.16.3); Log4J (1.2.8, 1.2.13, 1.2.15, 1.3); Commons-beanutils-1.8.3; Commons-lang3 (3.1); XWork 2.3.16.3)

### Oracle Financial Services Profitability Applications Products Included In The Application Pack
Each Oracle Financial Services Profitability Applications Pack includes the following applications:
- 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)

### Prerequisites
- Operating System
  - Oracle Linux / Red Hat Enterprise Linux (x86-64)
  - Oracle Solaris(SPARC)
  - IBM AIX (PowerPC)
  - Shell
- Java Runtime Environment
  - Oracle Linux / Red Hat Enterprise Linux
  - Oracle Solaris
  - IBM AIX
- Oracle Database Server and Client
- OLAP
  - Oracle Hyperion Essbase
  - Oracle OLAP
- Web Server
  - Oracle Linux / Red Hat Enterprise Linux
  - Oracle Solaris
  - IBM AIX
- Web Application Server
  - WebLogic
  - WebSphere
  - Apache Tomcat

### Third party software tools used in the Application Pack
- Apache (Sturts 2 (2.3.16.3); Commons-lang3)
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**Prerequisites**
- Operating System
- Java Runtime Environment
- Oracle Financial Services Data Foundation 8.0.1 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**
None

**Products Included In The Application Pack**
Each Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack (OFS RRS RBI) Application includes the following application:
- Oracle Financial Services Regulatory Reporting for Reserve Bank of India Lombard Risk Integration Pack

**Prerequisites**
- Operating System
- Java Runtime Environment
- Oracle Financial Services Data Foundation 8.0.1 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**
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<th>Provider</th>
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| Numerical Algorithms Group, Inc.              | DMC Mark8 ("Software"), NagC Mark 8 | Third party library for statistical methods | NAG Limited ® 2005  
DMC Mark8, NagC Mark 8  
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| Apache Software Foundation      | Ant (1.7, 1.6.2)                     | Scripting Platform             | Copyright © 1999-2012 The Apache Software Foundation  
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For a copy of the license, see Apache License, Version 2.0. |
<p>|                                | Avalon-framework-4.1.3.jar           | Platform Persistence Tier &amp; Install |                                                                                      |
|                                | Commons-beanutils-1.8.3             |                                |                                                                                      |
|                                | Commons-beanutils-1.7               |                                |                                                                                      |
|                                | Commons-collections 3.2.1           |                                |                                                                                      |
|                                | Commons CSV 1.0                     |                                |                                                                                      |
|                                | commons-discovery-0.2.jar           |                                |                                                                                      |
|                                | Commons-File upload1.0              |                                |                                                                                      |</p>
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<td>Enables to connect to an sshd server and use port forwarding, X11 forwarding, file transfer, and so on.</td>
<td>Copyright (c) 2012, Marcin Miekowski For a copy of the license, see <a href="https://github.com/atsh">Atsuhiko Yamanaka, JCraft, Inc.</a></td>
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<td>templates that are function object wrappers</td>
<td>August 17th, 2003&lt;br&gt;For a copy of the license, see <a href="http://www.boost.org">Boost Software</a></td>
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<td>Cloudera</td>
<td>Cloudera Standard—Apache Hadoop CDH4</td>
<td>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</td>
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<td>Codehaus</td>
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<td>Eclipse Foundation, Inc.</td>
<td>Eclipselink 1.1.2 (Eclipse Distribution License - v 1.0) JDT Compiler 5.5</td>
<td>Integrated development environment, used to develop applications</td>
<td>Eclipse Distribution License - v 1.0&lt;br&gt;Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.&lt;br&gt;For a copy of the license, see <a href="http://www.eclipse.org">Eclipse, Eclipse Public License</a></td>
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<td>Free Software Foundation</td>
<td>GNU make 3.82</td>
<td>Controls the generation of executables and other non-source files of a program from the</td>
<td>Copyright (C) 2007 Free Software Foundation, Inc.&lt;br&gt;For a copy of the license, see <a href="http://www.gnu.org">Free Software Foundation</a></td>
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<td>gnuplot 4.6 and later</td>
<td>Portable command-line driven graphing utility for Linux, OS/2, MS Windows, OSX, VMS, and many other platforms.</td>
<td>Copyright 1986 - 1993, 1998, 2004 Thomas Williams, Colin Kelley. For a copy of the license, see <a href="#">Gnuplot, V 4.6 and above</a>.</td>
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<td>Jason Hunter and Brett McLaughlin</td>
<td>JDOM 1.1</td>
<td>Type of Java API for accessing, manipulating, and outputting XML data from Java code</td>
<td>Copyright (C) 2000-2004 Jason Hunter &amp; Brett McLaughlin. For a copy of the license, see <a href="#">Jason Hunter and Brett McLaughlin</a>.</td>
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<td>JDOM</td>
<td>jaxen-core.jar 1.0, jaxen-jdom.jar 1.1.6</td>
<td>Open source XPath library written in Java</td>
<td>JDOM 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 &quot;License&quot;); you may not use this file except in compliance with the License. You may obtain a copy of the License at <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a>. For a copy of the license, see <a href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</td>
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<td>MetaStuff Ltd.</td>
<td>Dom4j 1.6.1</td>
<td>Open source library for working with XML, XPath and XSLT on the Java platform using the Java Collections Framework and with full support for DOM, SAX and JAXP</td>
<td>Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved. For a copy of the license, see <a href="#">MetaStuff, Ltd.</a>.</td>
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<td>Unknown (Thai Open Source Software Center Ltd)</td>
<td>relaxingDatatype.jar</td>
<td>Light-weight easy to use schema language</td>
<td>Copyright (c) 2001, Thai Open Source Software Center Ltd, Sun Microsystems. For a copy of the license, see <a href="#">Thai Open Source Software Center Ltd</a>.</td>
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<td>Saxpath (Simple API for Xpath)</td>
<td>Tool for writing XPath related applications</td>
<td>Copyright (c) 2011 Travis Tilley</td>
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<td>Copyright (c) 2008, Yahoo! Inc.</td>
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