

**Oracle® Financial Services
Analytical Applications**

Licensing Information User Manual

Release 8.0

E63171-01

June 2015

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Introduction

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Licensing Information

Product	Sub product	Licensing Description
Oracle Financial Services Analytical Applications 8.0.0.0.0	Oracle Financial Services Advanced Analytical Applications Infrastructure	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

Product	Sub product	Licensing Description
		• Dom4j 1.6.1 • DMC Mark8, NagC Mark 8 • relaxingDatatype.jar • YUI (Yahoo User Interface) Library (2.5.2, 2.6)
	Oracle Financial Services Data Management	Products Included In The Application Pack Each Oracle Financial Services Data Management (OFS DM) Application Pack includes the following applications: • Financial Services Reconciliation Framework 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 • 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)
	Oracle Financial Services Asset and Liability Management Applications	Products Included In The Application Pack Each Oracle Financial Services Asset and Liability Management (OFS ALM) Application Pack includes the following applications: • 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) Prerequisites • Operating System ○ Oracle Linux / Red Hat Enterprise Linux (x86-64) ○ Oracle Solaris(SPARC) ○ IBM AIX (PowerPC) ○ Shell • Java Runtime Environment

Product	Sub product	Licensing Description
		○ 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); XWork 2.3.16.3; Commons-lang3 (3.1); Commons-logging 1.1.3 • FreeMarker 2.3.19
	Oracle Financial Services Balance Sheet Planning	Products Included In The Application Pack Each Oracle Financial Services Balance Sheet Planning (OFS BSP) Application Pack includes the following application: • Oracle Financial Services Balance Sheet Planning (OFS BSP) Prerequisites • Hyperion 11.1.2.4 • Two Database users / schemas Third party software tools used in the Application Pack None
	Oracle Financial Services Behavior Detection Applications	Products Included In The Application Pack Each Oracle Financial Services Behavior Detection (OFS BD) Applications Pack includes the following application: • 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

Product	Sub product	Licensing Description
		(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 Enterprise Case Management (OFS ECM) • 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 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-dbc-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)

Product	Sub product	Licensing Description
	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 ◦ 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
	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

Product	Sub product	Licensing Description
		• Oracle Database Server and Client • OLAP • Web Server/ Web Application • Server • Desktop Requirements • Directory Services Third party software tools used in the Application Pack • Apache (Sturts 2 (2.3.16.3); XWork 2.3.16.3; Commons-lang3 (3.1); Commons-logging 1.1.3) • FreeMarker 2.3.19 • NagC Mark8, DMC Mark8
	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

Product	Sub product	Licensing Description
		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 - Oracle Solaris - IBM AIX Third party software tools used in the Application Pack None
	Oracle Financial Services DIH Oracle Banking Platform	Products Included In The Application Pack Each Oracle Financial Services Data Integration Hub Oracle Banking Platform (OFS DIH OBP) Application Pack includes the following application: - Oracle Financial Services Analytical Application - Oracle Banking Platform Interface 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 DIH Oracle Data Relationship Management	Products Included In The Application Pack Each Oracle Financial Services DIH Oracle Data Relationship Management Interface Application Pack includes the following application:

Product	Sub product	Licensing Description
	Interface	- Oracle Financial Services Analytical Application - Data Relationship Management (DRM) Interface 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 DIH Oracle FLEXCUBE Interface	Products Included In The Application Pack Each Oracle Financial Services DIH Oracle FLEXCUBE Interface Application Pack includes the following application: - Oracle Financial Services Analytical Application – FLEXCUBE Universal Banking Solutions (FCUBS) 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 DIH Oracle Fusion Accounting Hub Interface	Products Included In The Application Pack Each Oracle Financial Services DIH Oracle Fusion Accounting Hub Interface Application Pack includes the following application: Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle Fusion Accounting Hub

Product	Sub product	Licensing Description
		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 Data Integration	Products Included In The Application Pack Each Oracle Financial Services Data Integration (OFS DI) Application Pack includes the following application: - Oracle Financial Services Data Integration 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 - Apache (Log4J (1,2,16); Sturts 2 (2.3.16.3); XWork 2.3.16.3)
	Oracle Financial Services Enterprise Stress Testing and Capital Planning Applications	Products Included In The Application Pack Each Oracle Financial Services Enterprise Stress Testing and Capital Planning (OFS ESTCP) Application Pack includes the following applications: Oracle Financial Services Enterprise Stress Testing and Capital Planning Analytics (OFS EST&CP)

Product	Sub product	Licensing Description
		- Oracle Financial Services ICAAP Analytics 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 Foundation Applications	Products Included In The Application Pack Each Oracle Financial Services Data Foundation (OFSDF) Applications Application Pack includes the following applications: - Oracle Financial Services Data Foundation 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 Governance Risk and Compliance Applications	Products Included In The Application Pack Each Oracle Financial Services Governance Risk and Compliance (OFS GRC) Applications Application Pack includes the following applications: - Oracle Financial Services Operational Risk (OR) - Oracle Financial Services Governance and

Product	Sub product	Licensing Description
		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 ○ 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 ○ IBM AIX • Web Application Server ○ WebLogic ○ WebSphere ○ 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

Product	Sub product	Licensing Description
		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 • Apache (Sturts 2 (2.3.16.3); XWork 2.3.16.3; Commons-lang3 (3.1); Commons-logging 1.1.3) • FreeMarker 2.3.19
	Oracle Financial Services Pricing Management Applications	Products Included In The Application Pack 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 Third party software tools used in the Application Pack

Product	Sub product	Licensing Description
		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 (3.1); XWork 2.3.16.3; Commons-logging 1.1.3) - FreeMarker 2.3.19

Product	Sub product	Licensing Description
	Oracle Financial Services Treasury Risk Applications	Products Included In The Application Pack Each Oracle Financial Services Treasury Risk (OFS TR) Applications Pack includes the following applications: • Oracle Financial Services Liquidity Risk Management • Oracle Financial Services Market Risk • Oracle Financial Services Market Risk Analytics 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 • Apache (Sturts 2 (2.3.16.3); Log4J (1.2.8, 1.2.13, 1.2.15, 1.3); Commons-lang3 (3.1); XWork 2.3.16.3; Xerces 1.1, C++,1.6, 2.4, 2.5, 2.6, 2.7, 2.7.0; XWork 2.3.16.3; Commons-beanutils-1.8.3) • Boost C++ libraries 1.38 • NagC Mark 8, DMC Mark 8
	Oracle Insurance Foundation Applications	Products Included In The Application Pack Each Oracle Insurance Data Foundation (OIDF) Applications Pack includes the following application: • Oracle Insurance Data Foundation Prerequisites • Operating System • Java Runtime Environment • Oracle Database Server and Client • OLAP • Web Server/ Web Application • Server

Product	Sub product	Licensing Description
		• Desktop Requirements • Directory Services Third party software tools used in the Application Pack None
	Oracle Insurance Performance Insight for General Insurance	Products Included In The Application Pack Each Oracle Insurance Performance Insight for General Insurance Application Pack includes the following applications: • Oracle Insurance Performance Insight for General Insurance 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 ○ Oracle Solaris ○ IBM AIX Third party software tools used in the Application Pack None

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Provider	Component(s)	Functionality	Licensing Information
Apache Software Foundation	Ant (1.7, 1.6.2) Avalon-framework-4.1.3.jar 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	Scripting Platform Platform Persistence Tier & 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-lang3 (3.1) Commons-logging 1.1.3 dbcp (commons-dbc-1.2.1.jar) fop.jar 1.0 Jakarta-oro 2.0.8 Jakarta-commons-digester1.7 Jakarta-commons-discovery 0.4 Json-lib-2.2.2-jdk15 Log4J (1.2.8, 1.2.13, 1.2.15, 1.3) Log4J (1,2,16) POI 3.6 Spring-web.jar 2.0 Sturts 2 (2.3.16.3) Xalan 2.7.1 Xalan Java 2.7.1 Xalan-Java2 2.7 Xerces 2.8.1, 2.0.1 Xerces 1.1, C++, 1.6, 2.4, 2.5, 2.6, 2.7, 2.7.0 XWork 2.3.16.3		
Atsuhiko Yamanaka, JCraft, Inc.	JSch 0.1.4.9	Enables to connect to an sshd server and use port forwarding, X11 forwarding, file transfer, and so on.	Copyright (c) 2012, Marcin Mi³kowski For a copy of the license, see Atsuhiko Yamanaka, JCraft, Inc.
Boost	Boost C++	Family of class	Boost Software License - Version 1.0 -

Provider	Component(s)	Functionality	Licensing Information
Software	libraries 1.38	templates that are function object wrappers	August 17th, 2003 For a copy of the license, see Boost Software
Cloudera	Cloudera Standard— Apache Hadoop CDH4	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 .
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Provider	Component(s)	Functionality	Licensing Information
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Jason Hunter and Brett McLaughlin	JDOM 1.1	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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Yahoo	YUI (Yahoo User Interface) Library (2.5.2, 2.6)	JavaScript and CSS library	Copyright (c) 2008, Yahoo! Inc. For a copy of the license, see YUI (Yahoo UI libraries)

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Version 2, June 1991

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However, unrestricted linking of non-free programs would deprive the

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