

**Oracle® Financial Services
Analytical Applications**

Licensing Information User Manual

Release 8.0.6.0.0

May 2018

ORACLE®
Financial Services

Document Control

VERSION NUMBER	REVISION DATE	CHANGE LOG
1.0	May 2018	First release
2.0	December 2018	Added licensing information for Price Creation and Discovery
3.0	January 2019	Updated information for FSDF and ODF
4.0	February 2019	Updated information for Sanctions, EDQ and UCS
5.0	February 2019	Added information for Oracle Data Integrator
6.0	November 2020	Updated versions for POI, Jackson, Jackson databind, jQuery, Log4J

Copyright © 2019 Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Table of Contents

1	Licensing Information.....	1
2	Product Family - Platform	2
2.1	Oracle Financial Services Advanced Analytical Applications Infrastructure	2
3	Product Family - Risk and Finance	6
3.1	Oracle Financial Services Asset Liability Management Application Pack	6
3.2	Oracle Financial Services Balance Sheet Planning Pack.....	7
3.3	Oracle Financial Services Capital Adequacy Application Pack	7
3.4	Oracle Insurance International Financial Reporting Standards 17 Analyzer Pack	8
3.5	Oracle Financial Services International Financial Reporting Standards Pack.....	8
3.6	Oracle Financial Services Liquidity Risk Management Pack.....	9
3.7	Oracle Financial Services Market Risk Measurement and Management Application Pack	9
3.8	Oracle Financial Services Profitability Applications Pack	10
4	Product Family - Data Management	11
4.1	Oracle Financial Services Data Foundation Pack.....	11
4.2	Oracle Financial Services Data Integration Hub Pack	11
4.2.1	Oracle Data Integrator	13
4.3	Oracle Financial Services Data Management Application Pack	16
5	Product Family - Regulatory Reporting	18
5.1	OFS Regulatory Reporting for De Nederlandsche Bank	18
5.2	OFS Regulatory Reporting for European Banking Authority – Lombard Risk Integration Pack	18
5.3	OFS Regulatory Reporting for Reserve Bank of India	19
5.4	OFS Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack	20
5.5	OFS Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack	21
5.6	OFS Regulatory Reporting for US Federal Reserve	22
5.7	OFS Regulatory Reporting for US Federal Reserve	23
5.8	OFS Regulatory Reporting for US Treasury – Lombard Risk Integration Pack.....	24
5.9	Oracle Financial Services AgileREPORTER Application Pack	24
6	Product Family - Financial Crime and Compliance Management.....	26

6.1	Anti Money Laundering Event Scoring Application Pack	26
6.2	Behavior Detection Application Pack	27
6.3	Compliance Regulatory Reporting Application Pack	28
6.4	Enterprise Case Management Application Pack.....	29
6.5	Sanctions Application Pack.....	30
6.5.1	Enterprise Data Quality for OFSAA and Enterprise Data Quality for Universal Customer Screening	30
6.6	Trade-Based Anti Money Laundering Enterprise Edition Application Pack.....	31
6.7	Universal Customer Screening Application.....	32
7	Product Family - Customer Insight.....	33
7.1	Customer Analytics Application Pack.....	33
7.2	Price Creation and Discovery Application Pack.....	1
8	Product Family – Insurance	2
8.1	Oracle Insurance Data Foundation Pack	2
9	Restricted Use License.....	3
10	Third-Party Notices	5
10.1	Commercial Software	5
10.3	Open Source Software	6
11	Third-Party Licenses.....	13
11.1	Apache License, Version 2.0	13
11.2	Atsuhiko Yamanaka, JCraft, Inc.....	16
11.3	Boost Software	16
11.4	Eclipse	17
11.5	Eclipse Public License	18
11.6	Free Software Foundation.....	21
11.7	Gnuplot, V 4.6 and above	46
11.8	INRIA, France Telecom, Technology: ASM	47
11.9	Jason Hunter and Brett McLaughlin.....	47
11.10	JDOM	48
11.11	MetaStuff, Ltd.	49
11.12	NAG Limited	49
11.13	Numerix LLC	50

11.14	Thai Open Source Software Center Ltd	50
11.15	The MIT License.....	51
11.16	Visigoth Software Society	51
11.17	Ryan Niemeyer, Technology: knockout-postbox	52
11.18	Werken Digital	52
11.19	YUI (Yahoo UI libraries)	53

1 Licensing Information

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the “Program(s)”). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (<https://edelivery.oracle.com>) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle’s Software Investment Guide (<http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html>), and/or contact the applicable Oracle License Management Services representative listed on <http://www.oracle.com/us/corporate/license-management-services/index.html>.

2 Product Family - Platform

2.1 Oracle Financial Services Advanced Analytical Applications Infrastructure

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Advanced Analytical Applications Infrastructure (OFS AAI) application pack includes the following products:</p> <ul style="list-style-type: none"> • Analytical Applications Infrastructure • Big Data Processing • Enterprise Modeling • Inline Processing Engine 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — IBM AIX (PowerPC) — Shell ▪ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux — Oracle Solaris — IBM AIX ▪ Oracle Database Server and Client ▪ OLAP <ul style="list-style-type: none"> — Oracle Hyperion Essbase — Oracle OLAP ▪ Web Server <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux — Oracle Solaris — IBM AIX ▪ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat ▪ Oracle Labs Data Studio <ul style="list-style-type: none"> • Oracle Stack Libraries used in the Application Pack <ul style="list-style-type: none"> ▪ None

PRODUCTS	LICENSING DESCRIPTION
	<ul style="list-style-type: none"> • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ Apache 2.0 <ul style="list-style-type: none"> — ant-1.10.1.jar — batik-transcoder-1.10.jar — cglib-3.2.5.jar — cglib-nodep-3.2.5.jar — commons-beanutils-1.9.3.jar — commons-codec-1.10.jar — commons-collections4-4.1.jar — commons-dbcp2-2.1.1.jar — commons-discovery-0.5.jar — commons-fileupload-1.3.3.jar — commons-io-2.5.jar — commons-lang3-3.2.jar — commons-logging-1.2.jar — Commons-math3-3.6.1.jar — commons-pool2-2.4.2.jar — commons-vfs2-2.2.jar — dom4j-1.6.1.jar — ezmorph-1.0.6.jar — fop-2.2.jar — freemarker-2.3.22.jar — hadoop 2.8.1 — Jackson 2.11.1.jar — jackson-core-asl-1.9.13.jar — jackson-mapper-asl-1.9.13.jar — jetty 9.4.11 — joda-time-2.2.jar — json-lib-2.4-jdk15.jar — Kafka 0.11.0.0 — log4j-2.12.1.jar — OpenCMIS 1.1.0

PRODUCTS	LICENSING DESCRIPTION
	<ul style="list-style-type: none"> — opensaml-3.3.0.jar — poi-4.1.1.jar — serializer-2.10.0.jar — Spring 4.3.18 — velocity-1.7.jar — xalan-2.7.2.jar — xerces.jar — xlrld-1.2.2.jar — xmlbeans-2.6.0.jar — xml-resolver-1.2.jar — Zed Attack Proxy (ZAP) 2.6.0 ▪ Public <ul style="list-style-type: none"> — aopalliance-1.0.jar ▪ MIT <ul style="list-style-type: none"> — CKEditor 4 4.6.2 — FullCalendar 3.9.0 — jQuery 3.5.1 — knockout-postbox 0.6 — Raphael JavaScript Library 2.1 2.2.1 ▪ GNU <ul style="list-style-type: none"> — Font Awesome 4.4.0 ▪ EPL v1.0 and EDL v1.0 <ul style="list-style-type: none"> — eclipselink-2.6.4.jar (Eclipse Persistence Services Project (Eclipselink) 2.6.4) ▪ EPL 1.0 <ul style="list-style-type: none"> — ecj-4.6.1.jar — junit-4.12.jar (JUnit 4.12) ▪ BSD license <ul style="list-style-type: none"> — esapi-2.1.0.1.jar (Enterprise Security API (ESAPI) 2.1.0.1) — stax2-api-4.0.0.jar (stax2-api 4.0.0) ▪ BSD <ul style="list-style-type: none"> — jsch-0.1.54.jar (JSch 0.1.54) ▪ BSD/Apache style

PRODUCTS	LICENSING DESCRIPTION
	<ul style="list-style-type: none"> — jdom.jar (JDOM 1.1.3) ▪ BSD-3 — OWASP Java Encoder (OWASP Java Encoder Project 1.2.1) ▪ Burp Suite Free Edition License Agreement — Burp Suite Free Edition 1.7.19 ▪ CDDL 1.0 & GPL — Stax-api 1.0-2

3 Product Family - Risk and Finance

3.1 Oracle Financial Services Asset Liability Management Application Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Asset and Liability Management (OFSALM) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Asset Liability Management (OFS ALM) • Oracle Financial Services Asset Liability Management Analytics (OFS ALMBI) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — IBM AIX (PowerPC) — Shell ▪ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux — Oracle Solaris — IBM AIX ▪ Oracle Database Server and Client ▪ OLAP <ul style="list-style-type: none"> — Oracle Hyperion Essbase — Oracle OLAP ▪ Web Server <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux — Oracle Solaris — IBM AIX ▪ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the Application Pack <ul style="list-style-type: none"> — None

3.2 Oracle Financial Services Balance Sheet Planning Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Balance Sheet Planning (OFS BSP) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Balance Sheet Planning (OFS BSP) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Hyperion 11.1.2.4 ▪ Two Database users / schemas • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ None

3.3 Oracle Financial Services Capital Adequacy Application Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Capital Adequacy (OFS CAPADQ) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Economic Capital Advanced • Oracle Financial Services Basel Regulatory Capital Basic • Oracle Financial Services Basel Regulatory Capital Internal Ratings Based Approach • Oracle Financial Services Basel Regulatory Capital Analytics 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ NagC Mark8, DMC Mark8 ▪ Apache (Commons IO 2.2; commons-lang 3 3.2; Commons FileUpload 1.3.2; Commons Logging 1.1.3)

3.4 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 products:</p> <ul style="list-style-type: none"> • Insurance IFRS 17 Analyzer 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ None

3.5 Oracle Financial Services International Financial Reporting Standards Pack

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

3.6 Oracle Financial Services Liquidity Risk Management Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Liquidity Risk Management (OFS LRM) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Liquidity Risk Management 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ None

3.7 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 products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Market Risk Measurement and Management 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ CAS 4.1.0

3.8 Oracle Financial Services Profitability Applications Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Profitability application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Funds Transfer Pricing (OFS FTP) • Oracle Financial Services Profitability Management (OFS PFT) • Oracle Financial Services Institutional Performance Analytics (OFS IPA) • Oracle Financial Services Retail Performance Analytics (OFS RPA) • Oracle Financial Services Enterprise Financial Performance Analytics (OFS EFPA) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — IBM AIX (PowerPC) — Shell ▪ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux — Oracle Solaris — IBM AIX ▪ Oracle Database Server and Client ▪ OLAP <ul style="list-style-type: none"> — Oracle Hyperion Essbase — Oracle OLAP ▪ Web Server <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux — Oracle Solaris — IBM AIX ▪ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ Apache (Struts 2 (2.3.32); Commons-lang3 (3.1); XWork 2.3.16.3; Commons-logging 1.1.3) ▪ FreeMarker 2.3.19

4 Product Family - Data Management

4.1 Oracle Financial Services Data Foundation Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Data Foundation (OFSDF) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Data Foundation 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ commons-fileupload-1.3.2.jar ▪ commons-io-2.2.jar ▪ commons-lang3-3.2.jar ▪ commons-logging-1.1.3.jar ▪ freemarker-2.3.28.jar ▪ ognl-3.0.21.jar ▪ struts2-core-2.3.36.jar ▪ xwork-core-2.3.36.jar

4.2 Oracle Financial Services Data Integration Hub Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Data Integration (OFS DIH) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Data Integration 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Database Server and Client

PRODUCTS	LICENSING DESCRIPTION
<ul style="list-style-type: none"> • Oracle Financial Services Oracle Fusion Accounting Hub Interface • Oracle Financial Services Oracle FLEXCUBE Interface • Oracle Financial Services Oracle Data Relationship Management Interface • Oracle Financial Services Oracle Banking Platform Interface 	<ul style="list-style-type: none"> ▪ Oracle Data Integrator ▪ Web Server/ Web Application Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ Apache (Log4J (2.12.1); Struts 2 (2.3.34); Jackson-databind (2.11.1); Apache POI (4.1.1); Jersey (2.x)

4.2.1 Oracle Data Integrator

PRODUCT	LICENSING DESCRIPTION
Oracle Data Integrator	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux (x86-64) ▪ Java Runtime Environment ▪ Oracle Database Server and Client ▪ Web Server/ Web Application Server <ul style="list-style-type: none"> — Oracle Weblogic (Recommended) — Apache Tomcat • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ activation.jar ▪ aopalliance.jar ▪ bpm-infra.jar ▪ bsf.jar ▪ bsh-2.0b2.jar ▪ bsh-2.0b4.jar ▪ com-jcraft-jsch.jar ▪ commons-beanutils-1.7.0.jar ▪ commons-codec-1.3.jar ▪ commons-codec-1.9.jar ▪ commons-collections-3.2.2.jar ▪ commons-collections-3.2.jar ▪ commons-discovery-0.4.jar ▪ commons-httpclient-3.1.jar ▪ commons-io-1.2.jar ▪ commons-io-2.2.jar ▪ commons-lang-2.2.jar ▪ commons-logging-1.1.1.jar ▪ commons-logging-1.2.jar ▪ commons-net-3.3.jar ▪ commons-vfs-1.0.jar ▪ commons-vfs2-2.0.jar

PRODUCT	LICENSING DESCRIPTION
	<ul style="list-style-type: none"> ▪ connector.jar ▪ cpId.jar ▪ dms.jar ▪ eclipselink-dbwsutils.jar ▪ eclipselink.jar ▪ enterprise_data_quality.jar ▪ ess_es_server.jar ▪ ess_es_server_11.1.2.3.500.jar ▪ ess_japi.jar ▪ ess_japi_11.1.2.3.500.jar ▪ groovy-all-1.7.4.jar ▪ groovy-all-2.1.6.jar ▪ groovy-all-2.3.7.jar ▪ groovy-all-2.4.6.jar ▪ gson-2.6.2.jar ▪ HspJS.jar ▪ HspJS_11.1.2.0.jar ▪ HspJS_11.1.2.3.500.jar ▪ hsqldb.jar ▪ identitystore.jar ▪ identityutils.jar ▪ jackson-core-asl-1.9.13.jar ▪ jackson-mapper-asl-1.9.13.jar ▪ jakarta-oro-2.0.8.jar ▪ javax.persistence-src.jar ▪ javax.persistence.jar ▪ javax.validation.jar ▪ javolution.jar ▪ jms.jar ▪ jps-api.jar ▪ jsch-0.1.53.jar ▪ jsch.jar ▪ json-path-2.2.0.jar ▪ jython.jar

PRODUCT	LICENSING DESCRIPTION
	<ul style="list-style-type: none"> ▪ jzlib-1.07.jar ▪ log4j-2.12.1.jar ▪ mimepull.jar ▪ odi-core.jar ▪ odi-sap.jar ▪ odi-wls-template-gen.jar ▪ odihapp_common.jar ▪ odihapp_essbase.jar ▪ odihapp_essbase_11.1.2.3.500.jar ▪ odihapp_planning.jar ▪ odihapp_planning_11.1.2.0.jar ▪ odihapp_planning_11.1.2.3.500.jar ▪ odi_hfm.jar ▪ ogg_jmx_interface.jar ▪ ojdbc8.jar ▪ ojdl.jar ▪ oracle.odi-jaxrsri.jar ▪ oracle.odi-sdk-jse.jar ▪ oracle.odi-sdk-jse_12.1.3.jar ▪ oracle.ucp.jar ▪ org.codehaus.jackson.jackson-core-asl.jar ▪ org.codehaus.jackson.jackson-mapper-asl.jar ▪ org.eclipse.jgit_3.6.2.201501210735-r.jar ▪ org.jvnet.mimepull.mimepull.jar ▪ pop3.jar ▪ sapjco.jar ▪ sapjco3.jar ▪ slf4j-api-1.7.5.jar ▪ spring-aop.jar ▪ spring-beans.jar ▪ spring-context-support.jar ▪ spring-context.jar ▪ spring-core.jar ▪ spring-dao.jar

PRODUCT	LICENSING DESCRIPTION
	<ul style="list-style-type: none"> ▪ spring-expression.jar ▪ spring-instrument-tomcat.jar ▪ spring-instrument.jar ▪ spring-jdbc.jar ▪ spring-jms.jar ▪ spring-jmx.jar ▪ spring-jpa.jar ▪ spring-orm.jar ▪ spring-oxm.jar ▪ spring-struts.jar ▪ spring-test.jar ▪ spring-tx.jar ▪ spring-web.jar ▪ spring-webmvc-portlet.jar ▪ spring-webmvc.jar ▪ staxon-1.0.jar ▪ staxon-jackson-1.0.jar ▪ svnkit-1.8.3.jar ▪ trilead-ssh2-1.0.0-build217.jar ▪ trove.jar ▪ wls-api.jar ▪ woodstox.jar ▪ XmlSchema-1.4.2.jar

4.3 Oracle Financial Services Data Management Application Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Data Management (OFS DM) Application Pack includes the following applications:</p> <ul style="list-style-type: none"> • Oracle Financial Services Reconciliation Framework • Oracle Financial Services Data 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application Server

PRODUCTS	LICENSING DESCRIPTION
<p>Governance for US Regulatory Reporting</p> <ul style="list-style-type: none"> • Oracle Financial Services Data Governance for European Central Reporting 	<ul style="list-style-type: none"> ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ Log4J (2.12.1); XWork 2.3.16.3; Commons-lang3 (3.1); Commons-beanutils-1.8.3)

5 Product Family - Regulatory Reporting

5.1 OFS Regulatory Reporting for De Nederlandsche Bank

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank (OFS AGILE RP DNB) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Financial Services Data Foundation 8.0.6 Application Pack ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ Lombard Risk Reporting Portal

5.2 OFS Regulatory Reporting for European Banking Authority – 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 products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Regulatory Reporting for European Banking Authority (OFS AGILE RP EBA) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Financial Services Data Foundation 8.0.6 Application Pack ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server

PRODUCTS	LICENSING DESCRIPTION
	<ul style="list-style-type: none"> ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack ▪ Lombard Risk Reporting Portal

5.3 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)</p>	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Financial Services Data Foundation 8.0.6 Application Pack ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ Lombard Risk Reporting Portal

5.4 OFS Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack (OFS REG REP RBI) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Regulatory Reporting for Reserve Bank of India (OFS AGILE RP RBI) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Financial Services Data Foundation 8.0.6 Application Pack ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ Lombard Risk Reporting Portal

5.5 OFS Regulatory Reporting for 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 products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Financial Services Data Foundation 8.0.6 Application Pack ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ Lombard Risk Reporting Portal

5.6 OFS Regulatory Reporting for US Federal Reserve

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED)</p>	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Financial Services Data Foundation 8.0.6 Application Pack ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ Lombard Risk Reporting Portal

5.7 OFS Regulatory Reporting for US Federal Reserve

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Regulatory Reporting for US Treasury (OFS AGILE RP US Treasury)</p>	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Financial Services Data Foundation 8.0.6 Application Pack ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ Lombard Risk Reporting Portal

5.8 OFS Regulatory Reporting for US Treasury – 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 products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Regulatory Reporting for US Treasury (OFS AGILE RP US Treasury) 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Financial Services Data Foundation 8.0.6 Application Pack ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ Lombard Risk Reporting Portal

5.9 Oracle Financial Services AgileREPORTER Application Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services AgileREPORTER (OFS AgileREPORTER) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services AgileREPORTER 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Financial Services Data Foundation 8.0.6 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

PRODUCTS	LICENSING DESCRIPTION
	Pack <ul style="list-style-type: none"><li data-bbox="850 310 1263 342">▪ Lombard Risk Reporting Portal

6 Product Family - Financial Crime and Compliance Management

6.1 Anti Money Laundering Event Scoring Application Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Anti Money Laundering Event Scoring application pack includes the following products:</p> <ul style="list-style-type: none"> • Anti Money Laundering Event Scoring 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux (x86-64) ▪ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux ▪ Oracle Database Server and Client <ul style="list-style-type: none"> — Oracle Database Server Enterprise Edition 12c Release 1 (12.1.0.1.0 +) — Oracle Client 12c Release 1 (12.1.0.1.0+) — Oracle 12C Release 1 (12.1.0.1+) JDBC driver (Oracle thin driver) — Oracle R Distribution version 3.3 — Oracle R Enterprise (Server) version 1.5.1 ▪ Web Server <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux / IBM AIX — Oracle Solaris ▪ Web Application Server <ul style="list-style-type: none"> — Oracle WebLogic — IBM WebSphere — Apache Tomcat • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ CRAN R <ul style="list-style-type: none"> — xgboost 0.6.4 — jsonlite 1.5

6.2 Behavior Detection Application Pack

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

6.3 Compliance Regulatory Reporting Application Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Compliance Regulatory Reporting application pack includes the following products:</p> <ul style="list-style-type: none"> • Compliance Regulatory Reporting 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux (x86-64) ▪ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux — Oracle Solaris — IBM AIX ▪ Oracle Database Server and Client ▪ Web Server/Web Application Server <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux — Oracle Solaris — IBM AIX • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ Eclipselink 2.6.4

6.4 Enterprise Case Management Application Pack

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

6.5 Sanctions Application Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Sanctions application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Transaction Filtering • Oracle Financial Services Customer Screening 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — IBM AIX (PowerPC) — Shell ▪ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux — Oracle Solaris — IBM AIX ▪ Oracle Database Server and Client ▪ Web Server ▪ Web Application Server <ul style="list-style-type: none"> — WebLogic — WebSphere — Apache Tomcat ▪ EDQ <ul style="list-style-type: none"> — Oracle Enterprise Data Quality for Oracle Financial Services Analytical Applications (Oracle EDQ 12.2.1.1.0) must be installed. This needs to be installed separately and not on an existing AAI or OFS pack. • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ No additional third party tools

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

PRODUCT	LICENSING DESCRIPTION
Oracle Enterprise Data Quality	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux (x86-64) ▪ Java Runtime Environment <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux ▪ Oracle Database Server and Client ▪ Web Server/ Web Application Server <ul style="list-style-type: none"> — Oracle Weblogic (Recommended) — Apache Tomcat • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ commonslang 3.4, 3.5; Apache Commons DBCP; Commons Pool 1.6; Apache Derby; Apache Derby 10.9.11; Apache FOP 1.1; Apache FTP Server; Apache Jakarta Commons HttpClient 3.1; Apache Commons Pool; HttpComponents HttpClient 4.5.1; Apache Lucene; Apache Mina SSHD 2.0.0.8.0; Apache POI 4.1.1; Commons Codec 1.5; httpmime 4.5.1; Jakarta Commons DBCP 1.3; Log4j 2.12.1 ▪ Apache Commons Logging 1.1.3; Apache Commons Logging 1.1; Apache Commons Logging 1.1.1 ▪ JDOM 1.1 ▪ Jaxen 1.1.6

6.6 Trade-Based Anti Money Laundering Enterprise Edition Application Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Trade Based Anti Money Laundering application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Trade Based Anti Money Laundering 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System <ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux (x86-64) ▪ Java Runtime Environment

PRODUCTS	LICENSING DESCRIPTION
	<ul style="list-style-type: none"> — Oracle Linux / Red Hat Enterprise Linux ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server — Oracle Linux / Red Hat Enterprise Linux ▪ Web Application Server — WebLogic — Websphere ▪ Oracle Enterprise Data Quality for Oracle Financial Services Analytical Applications (Oracle EDQ 12.2.1.1 / 12.2.1.3) • Third party software tools used in the Application Pack ▪ None

6.7 Universal Customer Screening Application

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

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

7.2 Price Creation and Discovery Application Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Each Oracle Financial Services Price Creation and Discovery (OFS PCD) application pack includes the following products:</p> <ul style="list-style-type: none"> • Oracle Financial Services Price Creation and Discovery 	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/Web Application Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ jQuery JavaScript Library 3.5.1 ▪ Raphael JavaScript Library 2.2.1 ▪ Dojo 0.4.4 ▪ YUI 2.9.0 ▪ esapi-2.1.0.1.jar

8 Product Family – Insurance

8.1 Oracle Insurance Data Foundation Pack

PRODUCTS	LICENSING DESCRIPTION
<p>Products Included In The Application Pack</p> <p>Each Oracle Insurance Data Foundation (OIDF) applications pack includes the following product:</p> <p>Oracle Insurance Data Foundation</p>	<ul style="list-style-type: none"> • Prerequisites <ul style="list-style-type: none"> ▪ Operating System ▪ Java Runtime Environment ▪ Oracle Database Server and Client ▪ OLAP ▪ Web Server/ Web Application ▪ Server ▪ Desktop Requirements ▪ Directory Services • Third party software tools used in the Application Pack <ul style="list-style-type: none"> ▪ commons-fileupload-1.3.2.jar ▪ commons-io-2.2.jar ▪ commons-lang3-3.2.jar ▪ commons-logging-1.1.3.jar ▪ freemarker-2.3.28.jar ▪ ognl-3.0.21.jar ▪ struts2-core-2.3.36.jar ▪ xwork-core-2.3.36.jar

9 Restricted Use License

The below are 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.

10 Third-Party Notices

10.1 Commercial Software

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

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

PROVIDER	COMPONENT(S)	FUNCTIONALITY	LICENSING INFORMATION
Numerical Algorithms Group, Inc.,	DMC Mark8 ("Software"), NagC Mark 8	Third party library for statistical methods	NAG Limited © 2005 DMC Mark8 , NagC Mark 8 Portions utilize NAG's C library - All rights reserved For a copy of the license, see NAG Limited
Numerix LLC	CAS 4.1	Third party library of market risk models and methods	For a copy of the license, see Numerix LLC

10.3 Open Source Software

Required notices for open source software products or components distributed in Oracle Financial Services Analytical Applications are identified in the following table along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party open source software. For the full text of each license, see Third Party Licenses in this document.

PROVIDER	COMPONENT(S)	FUNCTIONALITY	LICENSING INFORMATION
Apache Software Foundation	Ant Avalon-framework-.jar, Axis batik-transcoder.jar cglib.jar cglib-nodep.jar Commons CSV Commons-beanutils- commons-codec.jar Commons-collections commons-dbc.jar Commons-discovery- .jar Commons FileUpload.jar commons-io.jar Commons-lang Commons-logging Commons-math.jar commons-pool.jar commons-vfs.jar dom4j.jar ezmorph.jar Fop.jar Freemarker.jar Hadoop Hadoop+CDH	Scripting Platform Platform Persistence Tier & Install	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
	Hive Hive+CDH Jacksonr jackson-core-asl.jar Jakarta-commons-digester Jakarta-commons-discovery Jakarta-oro jetty joda-time.jar Json-lib-2.x-jdk Kafka Log4J OpenCMIS opensaml.jar ognl.jar POI serializer.jar Spring Spring-web.jar sqoop-1.4.7 Struts 2 velocity.jar Xalan Xalan Java Xerces Xerces xlr.jar xmlbeans.jar xml-resolver.jar XWork Zed Attack Proxy (ZAP)		

PROVIDER	COMPONENT(S)	FUNCTIONALITY	LICENSING INFORMATION
Atsuhiko Yamanaka, JCraft, Inc.	JSch	Enables to connect to an sshd server and use port forwarding, X11 forwarding, file transfer, and so on.	Copyright (c) 2012, Marcin Mi³kowski For a copy of the license, see Atsuhiko Yamanaka, JCraft, Inc.
Boost Software	Boost C++ libraries	Family of class templates that are function object wrappers	Boost Software License - Version 1.0 - August 17th, 2003 For a copy of the license, see Boost Software
Cloudera	Cloudera Standard— Apache Hadoop CDH4 Cloudera Manager CDH Cloudera Hive Connectors	Contains the main, core elements of Hadoop that provide reliable, scalable distributed data processing of large data sets, as well as other enterprise-oriented components that provide security, high availability, and integration with hardware and other software	Copyright © 1999-2012 The Apache Software Foundation Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 . For a copy of the license, see Apache License, Version 2.0 .

PROVIDER	COMPONENT(S)	FUNCTIONALITY	LICENSING INFORMATION
Codehaus	Jackson	Data binding	<p>Jackson is available under the Apache License, Version 2.0.</p> <p>Copyright © 1999-2012 The Apache Software Foundation</p> <p>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.</p> <p>For a copy of the license, see Apache License, Version 2.0.</p>
Eclipse Foundation, Inc.	EclipseLink (Eclipse Distribution License - v 1.0) JDT Compiler	Integrated development environment, used to develop applications	<p>Eclipse Distribution License - v 1.0</p> <p>Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.</p> <p>For a copy of the license, see Eclipse, Eclipse Public License</p>
Free Software Foundation	GNU make	Controls the generation of executables and other non-source files of a program from the program's source files.	<p>Copyright (C) 2007 Free Software Foundation, Inc.</p> <p>For a copy of the license, see Free Software Foundation</p>
Gnuplot	Gnuplot	Portable command-line driven graphing utility for Linux, OS/2, MS Windows, OSX, VMS, and many other platforms.	<p>Copyright 1986 - 1993, 1998, 2004 Thomas Williams, Colin Kelley</p> <p>For a copy of the license, see Gnuplot, V 4.6 and above</p>

PROVIDER	COMPONENT(S)	FUNCTIONALITY	LICENSING INFORMATION
Jason Hunter and Brett McLaughlin	JDOM	Type of Java API for accessing, manipulating, and outputting XML data from Java code	Copyright (C) 2000-2004 Jason Hunter & Brett McLaughlin. For a copy of the license, see Jason Hunter and Brett McLaughlin
JDOM	Jaxen-core.jar Jaxen-jdom.jar	Open source XPath library written in Java	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 "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 .
MetaStuff Ltd.	Dom4j	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	Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved. For a copy of the license, see MetaStuff, Ltd.
Unknown (Thai Open Source Software Center Ltd)	RelaxingDatatype.jar	Light-weight easy to use schema language	Copyright (c) 2001, Thai Open Source Software Center Ltd, Sun Microsystems. For a copy of the license, see Thai Open Source Software Center Ltd

PROVIDER	COMPONENT(S)	FUNCTIONALITY	LICENSING INFORMATION
Visigoth Software Society	FreeMarker	"template engine" used to generate text output based on templates	Freemarker Copyright (c) 2003 The Visigoth Software Society. All rights reserved. For a copy of the license, see Visigoth Software Society
Werken Digital	Saxpath (Simple API for XPath) Jaxen 1.1.6	Tool for writing XPath related applications	Copyright (c) 2011 Travis Tilley For a copy of the license, see Werken Digital
Yahoo	YUI (Yahoo User Interface) Library	JavaScript and CSS library	Copyright (c) 2008, Yahoo! Inc. For a copy of the license, see YUI (Yahoo UI libraries)
INRIA, France Telecom	ASM	Java byte code manipulation framework	Copyright (c) 2000-2005 INRIA, France Telecom For a copy of the license, see INRIA .
Ryan Niemeyer	Knockout-postbox	MVVM Framework	Copyright (c) 2015 Ryan Niemeyer For a copy of the license, see Ryan Niemeyer, Technology .
R package from CRAN	Xgboost	Extreme Gradient Boosting, which is an efficient implementation of the gradient boosting framework from Chen & Guestrin (2016) in R	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
R package from CRAN	Jsonlite	A robust, high performance JSON parser and generator for R	Based on http://opensource.org/licenses/MIT YEAR: 2017 COPYRIGHT HOLDER: Jeroen Ooms For a copy of the license, see The MIT License.

11 Third-Party Licenses

11.1 Apache License, Version 2.0

The following applies to all products licensed under the Apache 2.0 License:

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>.

Unless/ required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability

obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

11.2 Atsuhiko Yamanaka, JCraft, Inc.

Copyright (c) 2012, Marcin Mi³kowski

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

11.3 Boost Software

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

11.4 Eclipse

Eclipse Distribution License - v 1.0

Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. * Neither the name of the Eclipse Foundation, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. OSI Approved The Eclipse Distribution License is an OSI Approved Open Source License by means of the New BSD License. Purpose Use of the Eclipse Distribution License by any project at the Eclipse Foundation must be reviewed and unanimously approved by the Board of Directors. Related Links * The standard Eclipse license is the Eclipse Public License. * EDL in plain HTML

11.5 Eclipse Public License

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Programs under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or

other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against

the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware)

infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

11.6 Free Software Foundation

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We,

the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what

server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional

permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your

license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a

consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that

obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE

PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>

This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <<http://www.gnu.org/licenses/>>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.

675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works.

But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted,

regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances. It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in

or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

GNU Free Documentation License

Version 1.3, 3 November 2008

Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.

`<http://fsf.org/>'

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as

"Acknowledgements", "Dedications", "Endorsements", or "History".)

To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited

to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

- A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
- B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
- C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
- D. Preserve all the copyright notices of the Document.
- E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
- F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
- G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
- H. Include an unaltered copy of this License.
- I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document

as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements."

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See <http://www.gnu.org/copyleft/>.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

Copyright (C) 1994 X Consortium

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

FSF changes to this file are in the public domain.

11.7 Gnuplot, V 4.6 and above

Copyright 1986 - 1993, 1998, 2004

www.gnuplot.info

Copyright 1986 - 1993, 1998, 2004 Thomas Williams, Colin Kelley

Permission to use, copy, and distribute this software and its documentation for any purpose with or without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Permission to modify the software is granted, but not the right to distribute the complete modified source code. Modifications are to be distributed as patches to the released version.

Permission to distribute binaries produced by compiling modified sources is granted provided you:

Distribute the corresponding source modifications from the released version in the form of a patch file along with the binaries.

Add special version identification to distinguish your version in addition to the base release version number.

Provide your name and address as the primary contact for the support of your modified version, and retain our contact information in regard to use of the base software.

Permission to distribute the released version of the source code along with corresponding source modifications in the form of a patch file is granted with same provisions 2 through 4 for binary distributions.

This software is provided "as is" without express or implied warranty to the extent permitted by applicable law.

11.8 INRIA, France Telecom, Technology: ASM

Copyright (c) 2000-2005 INRIA, France Telecom

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

11.9 Jason Hunter and Brett McLaughlin

Copyright (C) 2000-2004 Jason Hunter & Brett McLaughlin.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the disclaimer that follows these conditions in the documentation and/or other materials provided with the distribution.
3. The name "JDOM" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact <request_AT_jdom_DOT_org>.
4. Products derived from this software may not be called "JDOM", nor may "JDOM" appear in their name, without prior written permission from the JDOM Project Management <request_AT_jdom_DOT_org>.

In addition, we request (but do not require) that you include in the end-user documentation provided with the redistribution and/or in the software itself an acknowledgement equivalent to the following:

"This product includes software developed by the JDOM Project (<http://www.jdom.org/>)."

Alternatively, the acknowledgment may be graphical using the logos available at <http://www.jdom.org/images/logos>.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE JDOM AUTHORS OR THE PROJECT CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software consists of voluntary contributions made by many individuals on behalf of the JDOM Project and was originally created by Jason Hunter <jhunter_AT_jdom_DOT_org> and Brett McLaughlin <brett_AT_jdom_DOT_org>. For more information on the JDOM Project, please see <<http://www.jdom.org/>>.

11.10 JDOM

The Software may contain the following third party software-a. JRE from SUNb. Apache Webserverc. Tomcat Servlet Engine. Java Telnet Application. JClass Charts from Sitrakaf. JDBC Driver for MySQL Databaseg. MySQL DatabaseNote- Do not distribute such third party software without contacting Legal. (Agreement, Sec. 4- Pg. 6)Acme Packet shall reproduce and apply all copyright or other proprietary rights" notices embedded in the Licensed Software to any instances of Licensee Application Program. In particular, Licensee shall state prominently in the online and printed version of the documentation of the Licensee Application Program the following copyright message "This product contains copyright material licensed

from AdventNet, Inc. <http://www.adventnet.com>. All rights to such copyright material rest with AdventNet." (Agreement, Sec. 5.1 - Pg. 6)

11.11 MetaStuff, Ltd.

"Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved.

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain copyright statements and notices. Redistributions must also contain a copy of this document.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name "DOM4J" must not be used to endorse or promote products derived from this Software without prior written permission of MetaStuff, Ltd. For written permission, please contact dom4j-info@metastuff.com.
4. Products derived from this Software may not be called "DOM4J" nor may "DOM4J" appear in their names without prior written permission of MetaStuff, Ltd. DOM4J is a registered trademark of MetaStuff, Ltd.
5. Due credit should be given to the DOM4J Project -<http://www.dom4j.org>

THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE."

11.12 NAG Limited

NAG Limited © 2005

Portions utilize NAG's C library - All rights reserved

i-flex must not remove any copyright notices from the Software, and must ensure that proper notices in acknowledgement of the rights reserved to NAG appear in any composite programs, references, alterations, or copies which i-flex makes under these terms. (Agreement, Sec. 1.9 - Pg. 2)

11.13 Numerix LLC

Numerix User Documentation - CrossAsset Server User Guide Copyright © 1996-2018 by Numerix LLC All rights reserved.

Complying with all applicable copyright laws is the responsibility of the user. Without limiting its rights under copyright, no part of this document may be reproduced, stored in or introduced into a retrieval system or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), or for any purpose, without the express written permission of Numerix LLC. Requests for permission or further information should be addressed to Numerix LLC, 99 Park Avenue, 5th Floor, New York, NY 10016.

Numerix, CrossAsset, and Trader & Risk are trademarks or registered trademarks of Numerix LLC. Marks including but not limited to brand and product names not associated with Numerix LLC are the marks of their respective owners.

11.14 Thai Open Source Software Center Ltd

Copyright (c) 2001, Thai Open Source Software Center Ltd, Sun Microsystems.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the names of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

11.15 The MIT License

SPDX short identifier: MIT

Further resources on the MIT License

Copyright <YEAR> <COPYRIGHT HOLDER>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

11.16 Visigoth Software Society

Freemarker

Copyright (c) 2003 The Visigoth Software Society. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The end-user documentation included with the redistribution, if any, must include the following acknowledgement: "This product includes software developed by the Visigoth Software Society (<http://www.visigoths.org/>)." Alternately, this acknowledgement may appear in the software itself, if and wherever such third-party acknowledgements normally appear.
3. Neither the name "FreeMarker", "Visigoth", nor any of the names of the project contributors may be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact visigoths@visigoths.org.
4. Products derived from this software may not be called "FreeMarker" or "Visigoth" nor may "FreeMarker" or "Visigoth" appear in their names without prior written permission of the Visigoth Software Society.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE VISIGOTH SOFTWARE SOCIETY OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software consists of voluntary contributions made by many individuals on behalf of the Visigoth Software Society. For more information on the Visigoth Software Society, please see <http://www.visigoths.org/>

11.17 **Ryan Niemeyer, Technology: knockout-postbox**

The MIT License (MIT)

Copyright (c) 2015 Ryan Niemeyer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

11.18 **Werken Digital**

Copyright (c) 2011 Travis Tilley

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation

the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

11.19 YUI (Yahoo UI libraries)

Copyright (c) 2008, Yahoo! Inc.

All rights reserved.

Redistribution and use of this software in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Yahoo! Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission of Yahoo! Inc.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



OFSAA Licensing Information User Manual

Release 8.0.6.0.0

Oracle Corporation
World Headquarters
500 Oracle Parkway
Redwood Shores, CA 94065
U.S.A.

Worldwide Inquiries:

Phone: +1.650.506.7000

Fax: +1.650.506.7200

www.oracle.com/us/industries/financial-services/

Copyright © 2019 Oracle Financial Services Software Limited. All rights reserved.

No part of this work may be reproduced, stored in a retrieval system, adopted or transmitted in any form or by any means, electronic, mechanical, photographic, graphic, optic recording or otherwise, translated in any language or computer language, without the prior written permission of Oracle Financial Services Software Limited.

Due care has been taken to make this User Manual and accompanying software package as accurate as possible. However, Oracle Financial Services Software Limited makes no representation or warranties with respect to the contents hereof and shall not be responsible for any loss or damage caused to the user by the direct or indirect use of this User Manual and the accompanying Software System. Furthermore, Oracle Financial Services Software Limited reserves the right to alter, modify or otherwise change in any manner the content hereof, without obligation of Oracle Financial Services Software Limited to notify any person of such revision or changes.

All company and product names are trademarks of the respective companies with which they are associated.

