

Oracle Financial Services Analytical Applications (OFSAA)

Modern Risk and Finance (MRF)

Licensing Information User Manual

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Financial Services

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OFSAA MRF Licensing Information User Manual

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Document Control

Version Number	Revision Date	Change Log
1.0	February 2021	This is the first release of the OFSAA LIUM 8.1.1
2.0	February 2021	Added updates for OI DF, OFS ALM, OFS PFT, OFS FTP, OFS PA, OFS BSP and OFS IAA packs.
3.0	Mar 2021	Added updates for OFS CFE and OFS HM.
4.0	April 2021	Added updates for OFS REG REP APME and OFS REG REP RBI.
5.0	June 2021	Added updates for BCE and OFSI
6.0	July 2021	Added updates for FCCM and OFS REG REP USFED.
7.0	July 2021	Added updates for OFS Agile RP USFED
8.0	August 2021	Added updates for OFS LLFP
9.0	September 2021	Added updates for OFS REG REP US Treasury
10.0	October 2021	Removed licensing information for FCCM products.
11.0	April 2023	Added information for Oracle JET
12.0	July 2023	Added information for July CPU
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1 **Licensing Information**

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2 Product Family – Platform

This chapter includes licensing information for:

- [OFS Advanced Analytical Applications Infrastructure \(OFS AAAI\) and Oracle Financial Services Analytical Application Infrastructure Extension Pack \(OFS AAIEP\)](#)
- [Oracle Financial Services Model Management and Governance](#)

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

This section includes licensing information for OFSAAI and OFS AAIEP.

Table 1: Licensing Information for OFSAAI and OFS AAIEP

Products	Licensing Description
Each Oracle Financial Services Advanced Analytical Applications Infrastructure (OFS AAAI) application pack includes the following products: • Analytical Applications Infrastructure • Big Data Processing • Enterprise Modeling • Inline Processing Engine Each Oracle Financial Services Analytical Applications Infrastructure Extension Pack (OFS AAIEP) application pack includes the following products: • Analytical Applications Infrastructure Extension Pack	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris (SPARC) ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client — OLAP — Oracle Hyperion Essbase ○ Web Application Server — WebLogic — WebSphere — Apache Tomcat • Oracle Stack Libraries used in the application pack ○ None • Third-party software tools used in the application pack ○ Apache 2.0 — accessors-smart — Activemq-client — Apache Ant — Apache ActiveMQ — Apache Commons Compress — Apache FOP — Apache POI — Apache Santuario XMLSecurity for Java — batik-transcoder

Products	Licensing Description
	— cglib — commons-beanutils — commons-codec — commons-collections — commons-compress — commons csv — commons-dbc — commons-fileupload — commons-io — commons-lang — commons-logging — commons-pool — commons-vfs — EPL — Font Awesome — FreeMarker — Google Guava — Gson — Hadoop — Hive — Jackson — jackson-databind — JDOM — JWT — jwt-api — jwt-impl — jwt-jackson — joda-time — json-smart — json-path — Kafka — Log4J — mousetrap — open-saml-saml-impl — POI — raphael — RequireJS — quartz-jobs — Scala — Spark — Spring Framework — spring-kafka

Products	Licensing Description
	— sshd-common — sshd-core — sshd-sftp — stax2-api — sqoop — Xalan — Xerces2 Java — xmlbeans ○ Oracle JET ○ MIT — jQuery — jszip — jszip.min.js — TinyMCE ○ Clause BSD — stax2-api ○ 3-Clause BSD — Enterprise Security API (ESAPI) — OWASP Java Encoder Project

2.2 Oracle Financial Services Model Management and Governance

This section includes licensing information for OFSMMG.

Table 2: Licensing Information for OFS MMG

Products	Licensing Description
Each Oracle Financial Services Model Management and Governance (OFS MMG) application includes the following products: • Oracle Financial Services Analytical Applications Infrastructure • Oracle Financial Services Model Management and Governance	• Prerequisites ○ Operating System — Oracle Linux / Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell • Java Runtime Environment — Oracle Linux / Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP ○ Oracle Hyperion Essbase ○ Oracle OLAP ○ Web Server/ Web Application Server

Products	Licensing Description
	— WebLogic — WebSphere — Apache Tomcat ○ Oracle Labs Data Studio 20.2.2 • Oracle Stack Libraries used in the application pack ○ None • Third party software tools used in the application pack ○ None • Third party software tools used in Oracle Labs Data Studio ○ ACE Code Editor for the Web ○ Commons IO ○ Commons Lang ○ D3 ○ JavaScript Extension Toolkit (JET) ○ Kubernetes & OpenShift Java Client ○ Liquibase ○ STOMP.js ○ Simple Logging Facade for Java (SLF4J) ○ SockJS client ○ Spring Boot ○ Spring Retry ○ Springfox ○ Thrift ○ Zeppelin ○ Bluebird ○ commonmark-java ○ dagre ○ fetch ○ fuse.js ○ guava ○ jQuery ○ jackson-databind ○ jackson-dataformat-yaml ○ jackson-datatype-jsr310 ○ jackson-module-afterburner ○ jackson-module-parameter-names ○ lodash version ○ mapbox-gl-js ○ pip ○ py4j ○ swagger-ui ○ three.js

Products	Licensing Description
	See Third Party Tools used in Oracle Labs Data Studio for information of third party tools used in Oracle Labs Data Studio and the respective licensing information.

3 Product Family - Risk and Finance

This chapter includes licensing information for the Oracle Financial Services Risk and Finance related products.

Topics:

- [Oracle Financial Services Asset Liability Management Application Pack](#)
- [Oracle Financial Services Cash Flow Engine Application Pack](#)
- [Oracle Financial Services Insurance Accounting Analyzer Pack](#)
- [Oracle Financial Services Loan Loss Forecasting and Provisioning](#)
- [Oracle Financial Services Hedge Management and IFRS Valuations Pack](#)
- [Oracle Financial Services Profitability Management Pack](#)
- [Oracle Financial Services Funds Transfer Pricing Pack](#)
- [Oracle Financial Services Performance Analytics Pack](#)
- [Oracle Financial Services Balance Sheet Planning Pack](#)
- [Oracle Financial Services Market Risk Measurement and Management Pack](#)
- [Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack](#)
- [Oracle Financial Services Capital Adequacy Application Pack](#)

3.1 Oracle Financial Services Asset Liability Management Application Pack

This section includes the licensing information for OFS ALM.

Table 2: Licensing Information for OFS ALM

Products	Licensing Description
Each Oracle Financial Services Asset and Liability Management (OFS ALM) application pack includes the following products: • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Asset Liability Management (OFS ALM) • Oracle Financial Services Asset Liability Management and Funds Transfer Pricing Analytics (OFS ALMBI)	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP — Oracle Hyperion Essbase — Oracle OLAP ○ Web Server or Web Application Server

Products	Licensing Description
	— WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the application pack ○ JExcel

3.2 Oracle Financial Services Cash Flow Engine Application Pack

This section includes the licensing information for OFS CFE.

Table 3: Licensing Information for OFS CFE

Products	Licensing Description
Each Oracle Financial Services Cash Flow Engine (OFS CFE) application pack includes the following products: • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Cash Flow Engine (OFS CFE)	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP — Oracle Hyperion Essbase — Oracle OLAP ○ Web Server or Web Application Server — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the application pack ○ JExcel ○ Scala

3.3 Oracle Financial Services Insurance Accounting Analyzer Pack

This section includes licensing information for OFS IAA.

Table 4: Licensing Information for OFS IAA

Products	Licensing Description
Each Oracle Insurance Accounting Analyzer (OFS IAA) Pack application pack includes the following products: • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Insurance Accounting Analyzer (OFS IAA)	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP — Oracle Hyperion Essbase — Oracle OLAP ○ Web Server or Web Application Server — WebLogic — WebSphere — Apache Tomcat ○ OBIEE or OAS • Third party software tools used in the application pack ○ jsPDF- AutoTable ○ jExcel ○ jsPDF ○ MathJax

3.4 Oracle Financial Services Loan Loss Forecasting and Provisioning

This section includes the licensing information for OFS LLFP.

Table 5: Licensing Information for OFS LLFP

Products	Licensing Description
Each Oracle Financial Services Loan Loss Forecasting and Provisioning (OFS LLFP) application includes the following product: • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Loan Loss Forecasting and Provisioning	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux

Products	Licensing Description
	— Oracle Solaris ○ Oracle Database Server and Client ○ OLAP — Oracle Hyperion Essbase — Oracle OLAP ○ Web Server or Web Application Server — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the Application Pack ○ None

3.5 Oracle Financial Services Hedge Management and IFRS Valuations

This section includes the licensing information for OFS HM.

Table 6: Licensing Information for OFS HM

Products	Licensing Description
Each Oracle Financial Services Hedge Management and IFRS Valuations (OFS HM) application pack includes the following products: • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Hedge Management and IFRS Valuations (OFS HM)	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP — Oracle Hyperion Essbase — Oracle OLAP ○ Web Server or Web Application Server — WebLogic — WebSphere — Apache Tomcat ○ OBIEE or OAS • Third party software tools used in the Application Pack ○ None

3.6 Oracle Financial Services Profitability Management Pack

This section includes the licensing information for OFS PFT.

Table 7: Licensing Information for OFS PFT

Products	Licensing Description
Each Oracle Financial Services Profitability Management (OFS PFT) pack includes the following products: • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Profitability Management (OFS PFT)	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP — Oracle Hyperion Essbase — Oracle OLAP ○ Web Server or Web Application Server — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the application pack ○ jQuery ○ JExcel

3.7 Oracle Financial Services Funds Transfer Pricing Pack

This section includes the licensing information for OFS FTP.

Table 8: Licensing Information for OFS FTP

Products	Licensing Description
Each Oracle Financial Services Funds Transfer Pricing (OFS FTP) pack includes the following products: • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Funds Transfer Pricing (OFS FTP)	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris (SPARC) ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client

Products	Licensing Description
	○ OLAP — Oracle Hyperion Essbase — Oracle OLAP ○ Web Application Server ○ WebLogic ○ WebSphere ○ Apache Tomcat • Third party software tools used in the application pack ○ jQuery ○ JExcel

3.8

Oracle Financial Services Performance Analytics Pack

This section includes licensing the information for OFS PA.

Table 9: Licensing Information for OFS PA

Products	Licensing Description
Each Oracle Financial Services Performance Analytics (OFS PA) pack includes the following products: • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Institutional Performance Analytics (OFS IPA) • Oracle Financial Services Retail Performance Analytics (OFS RPA) • Oracle Financial Services Enterprise Financial Performance Analytics (OFS EFPA)	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP ○ Oracle Hyperion Essbase ○ Oracle OLAP ○ Web Application Server — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the application pack ○ D3 ○ Rgraph ○ jQuery

3.9 Oracle Financial Services Balance Sheet Planning Pack

This section includes the licensing information for OFS BSP.

Table 10: Licensing Information for OFS BSP

Products	Licensing Description
Each Oracle Financial Services Balance Sheet Planning (OFS BSP) application pack includes the following product: • Oracle Financial Services Balance Sheet Planning (OFS BSP)	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ Web Application Server — WebLogic

Products	Licensing Description
	— WebSphere — Apache Tomcat • Third party software tools used in the application pack ○ JExcel

3.10 Oracle Financial Services Market Risk Measurement and Management Application Pack

This section includes the licensing information for OFS MRMM.

Table 11: Licensing Information for OFS MRMM

Products	Licensing Description
Each Oracle Financial Services Market Risk Measurement and Management (OFS MRMM) applications pack includes the following product: • Oracle Financial Services Market Risk Measurement and Management	• Prerequisites ○ Operating System ○ Java Runtime Environment ○ Oracle Database Server and Client ○ OLAP ○ Web Server or Web Application Server ○ Desktop Requirements ○ Directory Services • Third party software tools used in the application pack ○ CAS

3.11 Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack

This section includes the licensing information for Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack.

Table 12: Licensing Information for OFS Oracle Insurance Allocation Manager for Enterprise Profitability Application Pack

Products	Licensing Description
Each Oracle Insurance Allocation Manager for Enterprise Profitability application pack includes the following product: • Oracle Insurance Allocation Manager for Enterprise Profitability	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris(SPARC) — Shell ○ Java Runtime Environment

Products	Licensing Description
	— Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ OLAP — Oracle Hyperion Essbase — Oracle OLAP ○ Web Application Server — WebLogic — WebSphere — Apache Tomcat • Third party software tools used in the application pack ○ None

3.12 Oracle Financial Services Capital Adequacy Application Pack

Products	Licensing Description
Each Oracle Financial Services Capital Adequacy (OFS CAPADQ) application pack includes the following products: • Oracle Financial Services Basel Regulatory Capital Basic • Oracle Financial Services Basel Regulatory Capital Internal Ratings Based Approach • Oracle Financial Services Basel Regulatory Capital Analytics	• Prerequisites ○ Operating System ○ Java Runtime Environment ○ Oracle Database Server and Client ○ OLAP ○ Web Server or Web Application Server ○ Desktop Requirements ○ Directory Services • Third party software tools used in the Application Pack ○ Jackson Databind

4 Product Family - Data Management

This chapter includes licensing information for the Oracle Financial Services Data Management related products.

Topics:

- [Oracle Financial Services Data Foundation Pack](#)
- [Oracle Financial Services Data Integration Hub Pack](#)
- [Oracle Financial Services Balance Computation Engine Application](#)
- [Oracle Financial Services Analytical Applications Reconciliation Framework Pack](#)
- [Oracle Insurance Data Foundation Pack](#)

4.1 Oracle Financial Services Data Foundation Pack

This section includes licensing information for OFSDF.

Table 13: Licensing Information for OFSDF

Products	Licensing Description
Each Oracle Financial Services Data Foundation (OFSDF) application pack includes the following products: • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Data Foundation (OFSDF)	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris (SPARC) ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ Web Application Server — WebLogic — WebSphere — Apache Tomcat • Third-party software tools used in the application pack ○ None

4.2 Oracle Financial Services Data Integration Hub Pack

This section includes licensing information for OFS DIH.

Table 14: Licensing Information for OFS DIH

Products	Licensing Description
Each Oracle Financial Services Data Integration (OFS DIH) application pack includes the following products: • Oracle Financial Services Data Integration • Oracle Financial Services Oracle Fusion Accounting Hub Interface • Oracle Financial Services Oracle FLEXCUBE Interface • Oracle Financial Services Oracle Data Relationship Management Interface • Oracle Financial Services Oracle Banking Platform Interface • Oracle Financial Services Data Foundation Integration with Accounting Hub Cloud Service • Oracle Insurance Data Foundation Integration With Accounting Hub Cloud Service • Oracle Financial Services Data Integration With Unity	• Prerequisites ○ Operating System ○ Java Runtime Environment ○ Oracle Database Server and Client ○ Oracle Data Integrator ○ Web Server or Web Application Server ○ Desktop Requirements ○ Directory Services • Third party software tools used in the application pack ○ Apache ○ Jackson-databind ○ Apache POI ○ Jersey ○ oracle.ucm.fa_client ○ D3

4.3 Oracle Financial Services Balance Computation Engine Application

This section includes licensing information for OFSBCE.

Table 15: Licensing Information for OFSBCE

Products	Licensing Description
Each Oracle Financial Services Balance Computation Engine (OFSBCE) application includes the following products: • Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) • Oracle Financial Services Balance Computation Engine Application (OFSBCE)	• Prerequisites ○ Operating System ○ Java Runtime Environment ○ Oracle Database Server and Client ○ Web Application Server ○ Desktop Requirements ○ Directory Services • Third-party software tools used in the application pack ○ None

4.4 Oracle Financial Services Analytical Applications Reconciliation Framework Pack

This section includes the licensing information for OFSAA Reconciliation Framework

Table 16: Licensing Information for OFSAA Reconciliation Framework

Products	Licensing Description
Each Oracle Financial Services Analytical Applications Reconciliation Framework Pack includes the following application: Oracle Financial Services Analytical Applications Reconciliation Framework	- Prerequisites - Operating System - Java Runtime Environment - Oracle Database Server and Client - Web Server/ Web Application Server - Desktop Requirements - Directory Services - Third party software tools used in the application pack - None

4.5 Oracle Insurance Data Foundation Pack

This section includes the licensing information for OIDF.

Table 17: Licensing Information for OIDF

Products	Licensing Description
Each Oracle Insurance Data Foundation (OIDF) application pack includes the following products: - Oracle Financial Services Analytical Applications Infrastructure (OFS AAI) - Oracle Insurance Data Foundation (OIDF)	- Prerequisites - Operating System - Oracle Linux or Red Hat Enterprise Linux (x86-64) - Oracle Solaris (SPARC) - Java Runtime Environment - Oracle Linux or Red Hat Enterprise Linux - Oracle Solaris - Oracle Database Server and Client - Web Application Server - WebLogic - WebSphere - Apache Tomcat - Third-party software tools used in the application pack - None

5 **Product Family - Regulatory Reporting**

This chapter includes licensing information for the Oracle Financial Services Regulatory Reporting products.

Topics:

- [OFS Regulatory Reporting for European Banking Authority](#)
- [OFS Regulatory Reporting Data Sets and Governance for Asis Pacific and Middle East Jurisdictions](#)
- [OFS Regulatory Reporting for Reserve Bank of India- Lombard Risk Integration Pack](#)
- [OFS Regulatory Reporting for Office of Superintendent of Financial Institutes Canada](#)
- [OFS Regulatory Reporting for US Federal Reserve- Integration Pack](#)
- [OFS Regulatory Reporting for US Federal Reserve](#)
- [OFS Regulatory Reporting for US Treasury Integration Pack](#)

5.1 **OFS Regulatory Reporting for European Banking Authority**

This section includes licensing information for OFS OFS AGILE RP EBA.

Table 18: Licensing Information for OFS AGILE RP EBA

Products	Licensing Description
Each Oracle Financial Services Regulatory Reporting for European Banking Authority (OFS AGILE RP EBA) application pack includes the following product: • Oracle Financial Services AgileREPORTER Application • Oracle Financial Services Regulatory Reporting for European Banking Authority	• Prerequisites ○ Operating System ○ Java Runtime Environment ○ Oracle Financial Services Data Foundation 8.1.0.0.0 Application Pack ○ Oracle Financial Services AgileREPORTER Application 8.0.9.1.0 ○ Oracle Database Server and Client ○ OLAP ○ Web Server or Web Application Server ○ Desktop Requirements ○ Directory Services • Third party software tools used in the application pack ○ None

5.2 OFS Regulatory Reporting Data Sets and Governance for Asia Pacific and Middle East Jurisdictions

This section includes licensing information for OFS REG REP APME.

Table 19: Licensing Information for OFS REG REP APME

Products	Licensing Description
Each Oracle Financial Services Regulatory Reporting Data Sets and Governance for Asia Pacific and Middle East Jurisdictions (OFS REG REP APME) application pack includes the following product: • Oracle Financial Services AgileREPORTER Application • Oracle Financial Services Regulatory Reporting Data Sets and Governance for Asia Pacific and Middle East Jurisdictions	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris (SPARC) ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ Web Application Server — WebLogic — WebSphere — Apache Tomcat ○ Oracle Financial Services Data Foundation 8.1.1.0.0 Application Pack ○ Oracle Financial Services AgileREPORTER Application 8.0.9.0.0 • Third party software tools used in the application pack ○ None

5.3 OFS Regulatory Reporting for Reserve Bank of India-Lombard Risk Integration Pack

This section includes licensing information for OFS REG REP RBI.

Table 20: Licensing Information for OFS REG REP RBI

Products	Licensing Description
Oracle Financial Services Regulatory Reporting for Reserve Bank of India-Lombard Risk Integration Pack (OFS REG REP RBI)	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris (SPARC) ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ Web Application Server — WebLogic — WebSphere — Apache Tomcat ○ Oracle Financial Services Data Foundation 8.1.1.0.0 Application Pack • Third party software tools used in the application pack ○ None

5.4 OFS Regulatory Reporting for Office of Superintendent of Financial Institutes Canada

This section includes licensing information for OFS REG REP OFSI.

Table 21: Licensing Information for OFS REG REP OFSI

Products	Licensing Description
Each Oracle Financial Services Regulatory Reporting for Office of Superintendent of Financial Institutes Canada (OFS REG REP OFSI) application pack includes the following product: • Oracle Financial Services AgileREPORTER Application • Oracle Financial Services Regulatory Reporting for Office of Superintendent of Financial Institutes, Canada	• Prerequisites ○ Operating System — Oracle Linux or Red Hat Enterprise Linux (x86-64) — Oracle Solaris (SPARC) ○ Java Runtime Environment — Oracle Linux or Red Hat Enterprise Linux — Oracle Solaris ○ Oracle Database Server and Client ○ Web Application Server

Products	Licensing Description
	— WebLogic — WebSphere — Apache Tomcat ○ Oracle Financial Services Analytical Applications Infrastructure 8.1.1.0.0 ○ Oracle Financial Services Data Foundation 8.1.1.1.0 Application Pack ○ Oracle Financial Services AgileREPORTER Application 8.0.9.6.1 • Third party software tools used in the application pack ○ None

5.5 OFS Regulatory Reporting for US Federal Reserve-Integration Pack

This section includes licensing information for OFS REG REP USFED.

Table 22: Licensing Information for OFS REG REP USFED

Products	Licensing Description
Each Oracle Financial Services Regulatory Reporting for US Federal Reserve-Integration Pack (OFS REG REP USFED)	• Prerequisites ○ Operating System ○ Java Runtime Environment ○ Oracle Financial Services Data Foundation 8.1.1.0.0 Application Pack ○ Oracle Database Server and Client ○ OLAP ○ Web Server or Web Application Server ○ Desktop Requirements ○ Directory Services • Third party software tools used in the application pack ○ Vermeg Reporting Portal

5.6 OFS Regulatory Reporting for US Federal Reserve

This section includes licensing information for OFS AGILE RP USFED.

Table 23: Licensing Information for OFS AGILE RP USFED

Products	Licensing Description
Each Oracle Financial Services Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED) application pack includes the following product: • Oracle Financial Services AgileREPORTER Application	• Prerequisites ○ Operating System ○ Java Runtime Environment ○ Oracle Financial Services Data Foundation 8.1.1.0 Application Pack ○ Oracle Financial Services AgileREPORTER 8.0.9.6.2 Application ○ Oracle Database Server and Client ○ OLAP ○ Web Server or Web Application Server ○ Desktop Requirements ○ Directory Services • Third party software tools used in the application pack ○ None

5.7 OFS Regulatory Reporting for US Treasury - Integration Pack

This section includes licensing information for OFS REG REP US Treasury.

Table 24: Licensing Information for OFS REG REP US Treasury

Products	Licensing Description
Each Oracle Financial Services Regulatory Reporting for US Treasury Integration Pack (OFS REG REP US Treasury) includes the following product: Oracle Financial Services Regulatory Reporting for US Treasury Integration Pack (OFS REG REP US Treasury)	- Prerequisites - Operating System - Oracle Linux or Red Hat Enterprise Linux (x86-64) - Oracle Solaris (SPARC) - Java Runtime Environment - Oracle Linux or Red Hat Enterprise Linux - Oracle Solaris - Oracle Database Server and Client - Web Application Server - WebLogic - WebSphere - Apache Tomcat - Oracle Financial Services Analytical Applications Infrastructure 8.1.1.0.0 - Oracle Financial Services Data Foundation 8.1.1.1.0 Application Pack - Oracle Financial Services AgileREPORTER Application 8.0.9.0.0 - Third party software tools used in the application pack - None

6 Product Family - Customer Insight

This chapter includes licensing information for the Oracle Financial Services Customer Insight products.

Topics:

- [Oracle Financial Services Customer Analytics Applications Pack](#)
- [Oracle Insurance Performance Insight Pack](#)

6.1 Oracle Financial Services Customer Analytics Applications Pack

This section includes licensing information for OFS CA.

Table 25: Licensing Information for OFS CA

Products	Licensing Description
Each Oracle Financial Services Customer Analytics (OFS CA) application pack includes the following product: • Oracle Financial Services Customer Analytics (OFS CA)	• Prerequisites ○ Operating System ○ Java Runtime Environment ○ Oracle Database Server and Client ○ OLAP ○ Web Server or Web Application Server ○ Desktop Requirements ○ Directory Services ○ Apex 19.2 ○ ORDS 19.4.6.142.1859 • Third party software tools used in the application pack ○ cx_Oracle ○ imbalanced-learn ○ matplotlib ○ NumPy ○ Pandas ○ Python ○ scikit-learn ○ SciPy ○ Seaborn ○ SQLAlchemy ○ statsmodels

6.2 Oracle Insurance Performance Insight Pack

This section includes licensing information for OIPI.

Table 26: Licensing Information for OIPI

Products	Licensing Description
Each Oracle Insurance Performance Insight (OIPI) application pack includes the following product: • Oracle Insurance Performance Insight (OIPI)	• Prerequisites ○ Operating System ○ Java Runtime Environment ○ Oracle Database Server and Client ○ OLAP ○ Web Server or Web Application Server ○ Desktop Requirements ○ Directory Services • Third party software tools used in the application pack ○ None

7 Third-Party Notices

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Table 27: Commercial Software

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Numerix LLC	CAS 4.1	Third party library of market risk models and methods	For a copy of the license, see Numerix LLC

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Table 28: Open Source Software

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Provider	Component(s)	Functionality	Licensing Information
	Guava Hadoop Hive jackson-databind JJWT joda-time Kafka Log4J Mousetrap POI Scala Spark sqoop Xerces2 Java XMLBeans XWork		
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== NAME OF DEPENDENCY 2

jakarta.jms:jakarta.jms-api

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Aleksander Slominski

2001-12-12

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8.1.2 batik-transcoder

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Top Component : batik-transcoder

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Fourth party dependencies

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- #02 org.apache.xmlgraphics:batik-awt-util:jar:
- #03 org.apache.xmlgraphics:batik-bridge:jar:
- #04 org.apache.xmlgraphics:batik-constants:jar:
- #05 org.apache.xmlgraphics:batik-css:jar:
- #06 org.apache.xmlgraphics:batik-dom:jar:
- #07 org.apache.xmlgraphics:batik-ext:jar:
- #08 org.apache.xmlgraphics:batik-gvt:jar:
- #09 org.apache.xmlgraphics:batik-i18n:jar:
- #10 org.apache.xmlgraphics:batik-parser:jar:
- #11 org.apache.xmlgraphics:batik-script:jar:
- #12 org.apache.xmlgraphics:batik-shared-resources:jar:
- #13 org.apache.xmlgraphics:batik-svg-dom:jar:
- #14 org.apache.xmlgraphics:batik-svggen:jar:
- #15 org.apache.xmlgraphics:batik-util:jar:
- #16 org.apache.xmlgraphics:batik-xml:jar:
- #17 org.apache.xmlgraphics:xmlgraphics-commons:jar:
- #18 xml-apis:xml-apis:jar:
- #19 xml-apis:xml-apis-ext:jar:
- #20 commons-io:commons-io:jar:
- #21 commons-logging:commons-logging:jar:

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8.1.3 Common

```
=====
=====
    Top level component : org.open-metadata:common
=====
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#02 com.fasterxml.jackson.core:jackson-annotations:jar:
#03 com.fasterxml.jackson.core:jackson-databind:jar:
#04 com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:jar:
#05 com.fasterxml.jackson.datatype:jackson-datatype-guava:jar:
#06 com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:
#07 com.fasterxml.jackson.datatype:jackson-datatype-joda:jar:
#08 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:
#09 com.fasterxml.jackson.jaxrs:jackson-jaxrs-base:jar:
#10 com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider:jar:
#11 com.fasterxml.jackson.module:jackson-module-blackbird:jar:
#12 com.fasterxml.jackson.module:jackson-module-jaxb-annotations:jar:
#13 com.fasterxml.jackson.module:jackson-module-parameter-names:jar:
#14 com.fasterxml.classmate:jar:
#15 com.github.ben-manes.caffeine:caffeine:jar:
#16 com.google.code.findbugs:annotations:jar:
#17 com.google.code.findbugs:jsr305:jar:
#18 com.google.code.javaparser:javaparser:jar:
#19 com.google.errorprone:error_prone_annotations:jar:
#20 com.google.guava:failureaccess:jar:
#21 com.google.guava:guava:jar:
#22 com.google.guava:listenablefuture:jar:
#23 com.google.j2objc:j2objc-annotations:jar:
#24 commons-codec:commons-codec:jar:
#25 commons-io:commons-io:jar:
#26 commons-lang:commons-lang:jar:
#27 io.dropwizard.logback:logback-throttling-appender:jar:
#28 io.dropwizard.metrics:metrics-annotation:jar:
#29 io.dropwizard.metrics:metrics-core:jar:
#30 io.dropwizard.metrics:metrics-jersey2:jar:
#31 io.dropwizard.metrics:metrics-logback:jar:
#32 io.dropwizard:dropwizard-jackson:jar:
#33 io.dropwizard:dropwizard-jersey:jar:
#34 io.dropwizard:dropwizard-logging:jar:

#35 io.dropwizard:dropwizard-util:jar:
#36 io.dropwizard:dropwizard-validation:jar:
#37 jakarta.activation:jakarta.activation-api:jar:
#38 jakarta.annotation:jakarta.annotation-api:jar:
#39 jakarta.inject:jakarta.inject-api:jar:
#40 jakarta.json.bind:jakarta.json.bind-api:jar:
#41 jakarta.servlet:jakarta.servlet-api:jar:
#42 jakarta.validation:jakarta.validation-api:jar:
#43 jakarta.ws.rs:jakarta.ws.rs-api:jar:
#44 jakarta.xml.bind:jakarta.xml.bind-api:jar:
#45 javax.validation:validation-api:jar:
#46 joda-time:joda-time:jar:
#47 org.apache.commons:commons-lang3:jar:
#48 org.checkerframework:checker-qual:jar:
#49 org.eclipse.jetty:jetty-io:jar:
#50 org.eclipse.jetty:jetty-util:jar:
#51 org.glassfish.hk2.external:aopalliance-repackaged:jar:
#52 org.glassfish.hk2:hk2-api:jar:
#53 org.glassfish.hk2:hk2-locator:jar:
#54 org.glassfish.hk2:hk2-utils:jar:
#55 org.glassfish.hk2:osgi-resource-locator:jar:
#56 org.glassfish.jersey.containers:jersey-container-servlet:jar:
#57 org.glassfish.jersey.containers:jersey-container-servlet-core:jar:
#58 org.glassfish.jersey.core:jersey-client:jar:
#59 org.glassfish.jersey.core:jersey-common:jar:
#60 org.glassfish.jersey.core:jersey-server:jar:
#61 org.glassfish.jersey.ext:jersey-metainf-services:jar:
#62 org.glassfish.jersey.inject:jersey-hk2:jar:
#63 org.glassfish:jakarta.el:jar:
#64 org.hibernate.validator:hibernate-validator:jar:
#65 org.javassist:javassist:jar:
#66 org.jboss.logging:jboss-logging:jar:
#67 org.jsonschema2pojo:jsonschema2pojo-core:jar:
#68 org.projectlombok:lombok:jar:

#69 org.slf4j:jcl-over-slf4j:jar:
#70 org.slf4j:jul-to-slf4j:jar:
#71 org.slf4j:slf4j-api:jar:
#72 com.sun.codemodel:codemodel:jar:
#73 javax.json.bind:javax.json.bind-api:jar:

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<https://github.com/eclipse-ee4j/jaxrs-api>

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JUnit (4.11)

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Mockito (2.16.0)

Project: <http://site.mockito.org>

Source: <https://github.com/mockito/mockito/releases/tag/v2.16.0>

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Project: <https://wiki.openjdk.java.net/display/CodeTools/JT+Harness>

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- * org.eclipse.jetty.orbit:javax.security.auth.message

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- * org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api

- * javax.annotation:javax.annotation-api

- * javax.transaction:javax.transaction-api

- * javax.websocket:javax.websocket-api

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- * java.sun.security.ssl

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- * org.apache.tomcat:tomcat-jasper
- * org.apache.tomcat:tomcat-juli
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- * org.apache.tomcat:tomcat-el-api
- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-api
- * org.apache.tomcat:tomcat-util-scan
- * org.apache.tomcat:tomcat-util

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- * org.apache.tomcat:tomcat-el-api

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- * org.eclipse.jetty.orbit:javax.security.auth.message

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- * org.eclipse.jetty.orbit:javax.mail.glassfish

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- * java.sun.security.ssl

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- * org.ow2.asm:asm-commons

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- * org.apache.tomcat:tomcat-jsp-api
- * org.apache.tomcat:tomcat-el-api
- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-api
- * org.apache.tomcat:tomcat-util-scan
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<https://github.com/eclipse-ee4j/glassfish-ha-api>

<https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor>
<https://github.com/eclipse-ee4j/glassfish-shoal>
<https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck>
<https://github.com/eclipse-ee4j/glassfish-jsftemplating>
<https://github.com/eclipse-ee4j/glassfish-hk2-extra>
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8.1.14 curvesapi

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8.1.17 fop-core

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8.1.18 Jackson Annotations

----- Jackson Annotations -----

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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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8.1.22 Jackson Databind

----- Jackson Databind -----

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src/main/misc/overloadedNumberRules/prices.ods
src/manual/en_US/docgen-originals/figures/overview.odg
src/manual/en_US/docgen-originals/figures/model2sketch_with_alpha.png
src/manual/en_US/docgen-originals/figures/tree_with_alpha.png
src/manual/en_US/favicon.png
src/manual/en_US/figures/model2sketch.png
src/manual/en_US/figures/overview.png
src/manual/en_US/figures/tree.png
src/manual/en_US/logo.png
src/manual/zh_CN/favicon.png
src/manual/zh_CN/figures/model2sketch.png
src/manual/zh_CN/figures/overview.png
src/manual/zh_CN/figures/tree.png
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```

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8.1.26 httpclient5

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org.javassist:javassist

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Version 2.1, February 1999

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8.1.30 **jjwt-jackson**

```
=====
=====
Top level component jjwt-jackson
=====
=====
```

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io.jsonwebtoken.impl.io.Base64OutputStream

io.jsonwebtoken.impl.io.BaseNCodec

io.jsonwebtoken.impl.io.BaseNCodecInputStream

io.jsonwebtoken.impl.io.BaseNCodecOutputStream

io.jsonwebtoken.impl.io.CodecPolicy

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io.jsonwebtoken.impl.io.CharSequenceReader

io.jsonwebtoken.impl.io.FilteredInputStream

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io.jsonwebtoken.impl.io.ClosedInputStream

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Fourth party dependencies

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- #01 jjwt-api
- #02 jackson-databind
- #03 jackson-annotations
- #04 jackson-core

=====

Fourth party #01 jjwt-api

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8.1.31 **jjwt-impl**

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Top level component jjwt-impl

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Fourth party dependencies

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#01 jjwt-api

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8.1.32 jjwt-api

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io.jsonwebtoken.impl.io.Base64InputStream

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io.jsonwebtoken.impl.io.ClosedInputStream

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8.1.33 JSch

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Top Level Component : jsch

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8.1.37 kafka-clients

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- #02 org.lz4:lz4-java:jar
- #03 org.xerial.snappy:snappy-java:jar
- #04 org.osgi:org.osgi.core:jar
- #05 org.slf4j:slf4j-api:jar

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8.1.38 log4j-api

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8.1.40 **log4j-core**

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Dependencies:

org.slf4j slf4j-api

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8.1.43 Mina SSHD-common

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8.1.46 **moment-timezone**

=====

Top level component : moment-timezone

=====

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Fourth party dependency

org.webjars.npm:moment [MIT license, available under top level license]

=====

8.1.47 **openmetadata-shaded-deps**

=====

Top level component - org.open-metadata:openmetadata-shaded-deps
(includes org.open-metadata:opensearch-deps)

=====

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#00 org.opensearch.client:opensearch-rest-high-level-client:jar:
#00 org.opensearch.plugin:aggs-matrix-stats-client:jar:
#00 org.opensearch.plugin:lang-mustache-client:jar:
#00 org.opensearch.plugin:mapper-extras-client:jar:
#00 org.opensearch.plugin:parent-join-client:jar:
#00 org.opensearch.plugin:rank-eval-client:jar:
#00 org.opensearch:opensearch:jar:
#00 org.opensearch:opensearch-cli:jar:
#00 org.opensearch:opensearch-core:jar:
#00 org.opensearch:opensearch-geo:jar:
#00 org.opensearch:opensearch-secure-sm:jar:
#00 org.opensearch:opensearch-x-content:jar:
#01 com.carrotsearch:hppc:jar:
#02 com.fasterxml.jackson.core:jackson-core:jar:
#03 com.fasterxml.jackson.dataformat:jackson-dataformat-cbor:jar:

#04 com.fasterxml.jackson.dataformat:jackson-dataformat-smile:jar:
#05 com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:jar:
#06 com.tdunning:t-digest:jar:
#07 joda-time:joda-time:jar:
#08 net.java.dev.jna:jna:jar:
#09 net.sf.jopt-simple:jopt-simple:jar:
#10 org.apache.logging.log4j:log4j-api:jar:
#11 org.apache.logging.log4j:log4j-jul:jar:
#12 org.apache.lucene:lucene-analysis-common:jar:
#13 org.apache.lucene:lucene-backward-codecs:jar:
#14 org.apache.lucene:lucene-core:jar:
#15 org.apache.lucene:lucene-grouping:jar:
#16 org.apache.lucene:lucene-highlighter:jar:
#17 org.apache.lucene:lucene-join:jar:
#18 org.apache.lucene:lucene-memory:jar:
#19 org.apache.lucene:lucene-misc:jar:
#20 org.apache.lucene:lucene-queries:jar:
#21 org.apache.lucene:lucene-queryparser:jar:
#22 org.apache.lucene:lucene-sandbox:jar:
#23 org.apache.lucene:lucene-spatial3d:jar:
#24 org.apache.lucene:lucene-spatial-extras:jar:
#25 org.apache.lucene:lucene-suggest:jar:
#26 org.hdrhistogram:HdrHistogram:jar:
#27 com.github.spullara.mustache.java:compiler:jar:
#28 org.apache.httpcomponents:httpasyncclient:jar:
#29 org.apache.httpcomponents:httpclient:jar:
#30 org.apache.httpcomponents:httpcore:jar:
#31 org.apache.httpcomponents:httpcore-nio:jar:
#32 commons-codec:commons-codec:jar:
#33 commons-logging:commons-logging:jar:

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Fourth party #00 opensearch components

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The class `org.apache.lucene.util.WeakIdentityMap` was derived from the Apache CXF project and is Apache License 2.0.

The class `org.apache.lucene.util.compress.LZ4` is a Java rewrite of the LZ4 compression library (<https://github.com/lz4/lz4/tree/dev/lib>) that is licensed under the 2-clause BSD license.
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The snowball stemmers in
`analysis/common/src/java/net/sf/snowball`
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
`analysis/common/src/resources/org/apache/lucene/analysis/snowball`
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
<https://snowballstem.org/>

The KStem stemmer in
`analysis/common/src/org/apache/lucene/analysis/en`
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The Arabic, Persian, Romanian, Bulgarian, Hindi and Bengali analyzers (common) come with a default

stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy
and

Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java
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8.1.48 openmetadata-java-client

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Top level component : org.open-metadata:openmetadata-java-client:jar

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#00 org.open-metadata:common:jar:
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#02 com.fasterxml.jackson.core:jackson-annotations:jar:
#03 com.fasterxml.jackson.core:jackson-databind:jar:
#04 com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:jar:
#05 com.fasterxml.jackson.datatype:jackson-datatype-guava:jar:
#06 com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:
#07 com.fasterxml.jackson.datatype:jackson-datatype-joda:jar:
#08 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:
#09 com.fasterxml.jackson.jaxrs:jackson-jaxrs-base:jar:
#10 com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider:jar:
#11 com.fasterxml.jackson.module:jackson-module-blackbird:jar:
#12 com.fasterxml.jackson.module:jackson-module-jaxb-annotations:jar:
#13 com.fasterxml.jackson.module:jackson-module-parameter-names:jar:

#14 com.fasterxml:classmate:jar:
#15 com.github.ben-manes.caffeine:caffeine:jar:
#16 com.google.code.findbugs:annotations:jar:
#17 com.google.code.findbugs:jsr305:jar:
#18 com.google.code.javaparser:javaparser:jar:
#19 com.google.errorprone:error_prone_annotations:jar:
#20 com.google.guava:failureaccess:jar:
#21 com.google.guava:guava:jar:
#22 com.google.guava:listenablefuture:jar:
#23 com.google.j2objc:j2objc-annotations:jar:
#24 commons-codec:commons-codec:jar:
#25 commons-io:commons-io:jar:
#26 commons-lang:commons-lang:jar:
#27 io.dropwizard.logback:logback-throttling-appender:jar:
#28 io.dropwizard.metrics:metrics-annotation:jar:
#29 io.dropwizard.metrics:metrics-core:jar:
#30 io.dropwizard.metrics:metrics-jersey2:jar:
#31 io.dropwizard.metrics:metrics-logback:jar:
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#40 jakarta.json.bind:jakarta.json.bind-api:jar:
#41 jakarta.servlet:jakarta.servlet-api:jar:
#42 jakarta.validation:jakarta.validation-api:jar:
#43 jakarta.ws.rs:jakarta.ws.rs-api:jar:
#44 jakarta.xml.bind:jakarta.xml.bind-api:jar:
#45 javax.validation:validation-api:jar:
#46 joda-time:joda-time:jar:
#47 org.apache.commons:commons-lang3:jar:

#48 org.checkerframework:checker-qual:jar:
#49 org.eclipse.jetty:jetty-io:jar:
#50 org.eclipse.jetty:jetty-util:jar:
#51 org.glassfish.hk2.external:aopalliance-repackaged:jar:
#52 org.glassfish.hk2:hk2-api:jar:
#53 org.glassfish.hk2:hk2-locator:jar:
#54 org.glassfish.hk2:hk2-utils:jar:
#55 org.glassfish.hk2:osgi-resource-locator:jar:
#56 org.glassfish.jersey.containers:jersey-container-servlet:jar:
#57 org.glassfish.jersey.containers:jersey-container-servlet-core:jar:
#58 org.glassfish.jersey.core:jersey-client:jar:
#59 org.glassfish.jersey.core:jersey-common:jar:
#60 org.glassfish.jersey.core:jersey-server:jar:
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#62 org.glassfish.jersey.inject:jersey-hk2:jar:
#63 org.glassfish.jakarta.el:jar:
#64 org.hibernate.validator:hibernate-validator:jar:
#65 org.javassist:javassist:jar:
#66 org.jboss.logging:jboss-logging:jar:
#67 org.jsonschema2pojo:jsonschema2pojo-core:jar:
#68 org.projectlombok:lombok:jar:
#69 org.slf4j:jcl-over-slf4j:jar:
#70 org.slf4j:jul-to-slf4j:jar:
#71 org.slf4j:slf4j-api:jar:
#72 io.github.resilience4j:resilience4j-core:jar:
#73 io.github.resilience4j:resilience4j-retry:jar:
#74 javax.ws.rs:javax.ws.rs-api:jar:
#75 org.antlr:antlr4-runtime:jar:
#76 com.github.java-json-tools:btf:jar:
#77 com.github.java-json-tools:jackson-coreutils:jar:
#78 com.github.java-json-tools:jackson-coreutils-equivalence:jar:
#79 com.github.java-json-tools:json-patch:jar:
#80 com.github.java-json-tools:json-schema-core:jar:
#81 com.github.java-json-tools:json-schema-validator:jar:

#82 com.github.java-json-tools:msg-simple:jar:
#83 com.github.java-json-tools:uri-template:jar:
#84 com.github.scribejava:scribejava-apis:jar:
#85 com.github.scribejava:scribejava-core:jar:
#86 com.github.scribejava:scribejava-java8:jar:
#87 com.github.stephenc.jcip:jcip-annotations:jar:
#88 com.google.auth:google-auth-library-credentials:jar:
#89 com.google.auth:google-auth-library-oauth2-http:jar:
#90 com.google.auto.value:auto-value-annotations:jar:
#91 com.google.code.gson:gson:jar:
#92 com.google.http-client:google-http-client:jar:
#93 com.google.http-client:google-http-client-gson:jar:
#94 com.googlecode.libphonenumber:libphonenumber:jar:
#95 com.microsoft.azure:msal4j:jar:
#96 com.nimbusds:content-type:jar:
#97 com.nimbusds:lang-tag:jar:
#98 com.nimbusds:nimbus-jose-jwt:jar:
#99 com.nimbusds:oauth2-oidc-sdk:jar:
#100 com.squareup.okhttp3:okhttp:jar:
#101 com.squareup.okio:okio:jar:
#102 com.squareup.okio:okio-jvm:jar:
#103 io.github.openfeign.form:feign-form:jar:
#104 io.github.openfeign:feign-core:jar:
#105 io.github.openfeign:feign-jackson:jar:
#106 io.github.openfeign:feign-okhttp:jar:
#107 io.github.openfeign:feign-slf4j:jar:
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#113 io.swagger.core.v3:swagger-models:jar:
#114 io.swagger.parser.v3:swagger-parser:jar:
#115 io.swagger.parser.v3:swagger-parser-core:jar:

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- #120 io.swagger:swagger-compatible-spec-parser:jar:
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- #125 net.minidev:accessors-smart:jar:
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- #134 org.mozilla:rhino:jar:
- #135 org.openapitools:jackson-databind-nullable:jar:
- #136 org.ow2.asm:asm:jar:
- #137 org.yaml:snakeyaml:jar:
- #138 com.sun.codemodel:codemodel:jar:
- #139 javax.json.bind:javax.json.bind-api:jar:

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Mockito (2.16.0)

Project: <http://site.mockito.org>

Source: <https://github.com/mockito/mockito/releases/tag/v2.16.0>

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Source: <https://repository.ow2.org/nexus/#nexus-search;gav~org.ow2.asm~asm-commons~kw,versionexpand>

JTHarness (5.0)

License: (GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0)

Project: <https://wiki.openjdk.java.net/display/CodeTools/JT+Harness>

Source: <http://hg.openjdk.java.net/code-tools/jtharness/>

normalize.css (3.0.2)

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- * org.eclipse.jetty.orbit:javax.security.auth.message

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- * java.sun.security.ssl

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- * org.apache.tomcat:tomcat-jasper
- * org.apache.tomcat:tomcat-juli
- * org.apache.tomcat:tomcat-jsp-api
- * org.apache.tomcat:tomcat-el-api
- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-api
- * org.apache.tomcat:tomcat-util-scan
- * org.apache.tomcat:tomcat-util
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- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-el-api

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- * org.apache.taglibs:taglibs-standard-spec

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- * org.apache.tomcat:tomcat-el-api
- * org.apache.tomcat:tomcat-jasper-el
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- <https://github.com/eclipse-ee4j/glassfish-shoal>
- <https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck>
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8.1.49 openmetadata-spec

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Top level component : org.open-metadata:openmetadata-spec

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Fourth party dependencies

#00 org.open-metadata:common:jar:

#01 com.fasterxml.jackson.core:jackson-core:jar:
#02 com.fasterxml.jackson.core:jackson-annotations:jar:
#03 com.fasterxml.jackson.core:jackson-databind:jar:
#04 com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:jar:
#05 com.fasterxml.jackson.datatype:jackson-datatype-guava:jar:
#06 com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:
#07 com.fasterxml.jackson.datatype:jackson-datatype-joda:jar:
#08 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:
#09 com.fasterxml.jackson.jaxrs:jackson-jaxrs-base:jar:
#10 com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider:jar:
#11 com.fasterxml.jackson.module:jackson-module-blackbird:jar:
#12 com.fasterxml.jackson.module:jackson-module-jaxb-annotations:jar:
#13 com.fasterxml.jackson.module:jackson-module-parameter-names:jar:
#14 com.fasterxml.classmate:jar:
#15 com.github.ben-manes.caffeine:caffeine:jar:
#16 com.google.code.findbugs:annotations:jar:
#17 com.google.code.findbugs:jsr305:jar:
#18 com.google.code.javaparser:javaparser:jar:
#19 com.google.errorprone:error_prone_annotations:jar:
#20 com.google.guava:failureaccess:jar:
#21 com.google.guava:guava:jar:
#22 com.google.guava:listenablefuture:jar:
#23 com.google.j2objc:j2objc-annotations:jar:
#24 commons-codec:commons-codec:jar:
#25 commons-io:commons-io:jar:
#26 commons-lang:commons-lang:jar:
#27 io.dropwizard.logback:logback-throttling-appender:jar:
#28 io.dropwizard.metrics:metrics-annotation:jar:
#29 io.dropwizard.metrics:metrics-core:jar:
#30 io.dropwizard.metrics:metrics-jersey2:jar:
#31 io.dropwizard.metrics:metrics-logback:jar:
#32 io.dropwizard:dropwizard-jackson:jar:
#33 io.dropwizard:dropwizard-jersey:jar:
#34 io.dropwizard:dropwizard-logging:jar:

#35 io.dropwizard:dropwizard-util:jar:
#36 io.dropwizard:dropwizard-validation:jar:
#37 jakarta.activation:jakarta.activation-api:jar:
#38 jakarta.annotation:jakarta.annotation-api:jar:
#39 jakarta.inject:jakarta.inject-api:jar:
#40 jakarta.json.bind:jakarta.json.bind-api:jar:
#41 jakarta.servlet:jakarta.servlet-api:jar:
#42 jakarta.validation:jakarta.validation-api:jar:
#43 jakarta.ws.rs:jakarta.ws.rs-api:jar:
#44 jakarta.xml.bind:jakarta.xml.bind-api:jar:
#45 javax.validation:validation-api:jar:
#46 joda-time:joda-time:jar:
#47 org.apache.commons:commons-lang3:jar:
#48 org.checkerframework:checker-qual:jar:
#49 org.eclipse.jetty:jetty-io:jar:
#50 org.eclipse.jetty:jetty-util:jar:
#51 org.glassfish.hk2.external:aopalliance-repackaged:jar:
#52 org.glassfish.hk2:hk2-api:jar:
#53 org.glassfish.hk2:hk2-locator:jar:
#54 org.glassfish.hk2:hk2-utils:jar:
#55 org.glassfish.hk2:osgi-resource-locator:jar:
#56 org.glassfish.jersey.containers:jersey-container-servlet:jar:
#57 org.glassfish.jersey.containers:jersey-container-servlet-core:jar:
#58 org.glassfish.jersey.core:jersey-client:jar:
#59 org.glassfish.jersey.core:jersey-common:jar:
#60 org.glassfish.jersey.core:jersey-server:jar:
#61 org.glassfish.jersey.ext:jersey-metainf-services:jar:
#62 org.glassfish.jersey.inject:jersey-hk2:jar:
#63 org.glassfish:jakarta.el:jar:
#64 org.hibernate.validator:hibernate-validator:jar:
#65 org.javassist:javassist:jar:
#66 org.jboss.logging:jboss-logging:jar:
#67 org.jsonschema2pojo:jsonschema2pojo-core:jar:
#68 org.projectlombok:lombok:jar:

#69 org.slf4j:jcl-over-slf4j:jar:
#70 org.slf4j:jul-to-slf4j:jar:
#71 org.slf4j:slf4j-api:jar:
#72 io.github.resilience4j:resilience4j-core:jar:
#73 io.github.resilience4j:resilience4j-retry:jar:
#74 javax.ws.rs:javax.ws.rs-api:jar:
#75 org.antlr:antlr4-runtime:jar:
#76 com.sun.codemodel:codemodel:jar:
#77 javax.json.bind:javax.json.bind-api:jar:

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Fourth party #01 com.fasterxml.jackson.core:jackson-core:jar:

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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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- * org.apache.tomcat:tomcat-jasper
- * org.apache.tomcat:tomcat-juli
- * org.apache.tomcat:tomcat-jsp-api
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- * org.apache.tomcat:tomcat-juli

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- * org.apache.tomcat:tomcat-jasper-el

- * org.apache.tomcat:tomcat-api

- * org.apache.tomcat:tomcat-util-scan

- * org.apache.tomcat:tomcat-util

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=====

8.1.50 **poi-ooxml-lite**

=====

Top level component : org.apache.poi:poi-ooxml-lite:jar

=====

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org.apache.poi.util.ReplacingInputStream is based on code from
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- #01 org.apache.xmlbeans:xmlbeans:jar:
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=====

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- aspectjweaver
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spring-context
spring-context-support
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aspectjweaver

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8.1.55 **spring-integration-kafka**

=====

Top level component - spring-integration-kafka 5.5.13

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Fourth party dependencies

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- #02 org.springframework:spring-beans
- #03 org.springframework:spring-context
- #04 org.springframework:spring-core
- #05 org.springframework:spring-jcl
- #06 org.springframework:spring-messaging
- #07 org.springframework:spring-tx
- #08 org.springframework.kafka:spring-kafka
- #09 org.springframework.retry:spring-retry
- #10 io.projectreactor:reactor-core

#11 org.lz4:lz4-java
#12 org.apache.kafka:kafka-clients
#13 org.xerial.snappy:snappy-java
#14 com.jayway.jsonpath:json-path
#15 com.github.luben:zstd-jni
#16 org.ow2.asm:asm
#17 org.reactivestreams:reactive-streams
#18 org.slf4j:slf4j-api
#19 org.osgi:org.osgi.core
#20 com.google.code.findbugs:jsr305
#21 org.springframework.integration:spring-integration-core

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- * Providing benchmark suite

- * Alec Wysoker

- * Performance and memory usage improvement

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8.1.57 thymeleaf-extras-springsecurity6

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Top level component : thymeleaf-extras-springsecurity6:jar

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- #01 org.thymeleaf:thymeleaf-spring6:jar
- #02 org.thymeleaf:thymeleaf:jar:
- #03 org.attoparser:attoparser:jar:

#04 org.unescape:unescape:jar:

#05 org.slf4j:slf4j-api:jar:

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Fourth party #01, #02 org.thymeleaf:thymeleaf components

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8.1.58 Underscore.js

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8.1.59 XML Security for Java

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Top level component : XML Security for Java

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Fourth party dependency

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- #02 commons-codec
- #03 slf4j-api
- #04 woodstox-core
- #05 stax2-api

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Fourth party #01 jakarta.xml.bind-api

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8.1.61 XMLBeans

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AUTHOR

David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated

the Yorick parser. The routines in Math are from LAPACK and FFTPACK; MathC contains C translations by David H. Munro. The algorithms for Yorick's random number generator and several special functions in Yorick/include were taken from Numerical Recipes by Press, et. al., although the Yorick implementations are unrelated to those in Numerical Recipes. A small amount of code in Gist was adapted from the X11R4 release, copyright M.I.T. -- the complete copyright notice may be found in the (unused) file Gist/host.c.

agg24-svn

The Anti-Grain Geometry Project
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ttutil.cpp

/*
* Modified for use within matplotlib
* 5 July 2007
* Michael Droettboom
*/


```
/* Very simple interface to the ppr TT routines */  
/* (c) Frank Siegert 1996 */
```

```
+++++
```

```
pprdrv.h
```

```
-----
```

```
/*  
 * Modified for use within matplotlib  
 * 5 July 2007  
 * Michael Droettboom  
 */
```

```
/*  
** ~ppr/src/include/pprdrv.h  
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**  
** This file last revised 5 December 1995.  
*/
```

```
+++++
```

```
pprdrv_tt.cpp
```

```
-----
```

```
/*  
 * Modified for use within matplotlib
```

```
* 5 July 2007
* Michael Droettboom
*/

/*
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**
** TrueType font support. These functions allow PPR to generate
** PostScript fonts from Microsoft compatible TrueType font files.
**
** Last revised 19 December 1995.
*/
```

+++++

pprdv_tt2.cpp

```
/*
* Modified for use within matplotlib
* 5 July 2007
* Michael Droettboom
*/
```

```
/*
** ~ppr/src/pprdv/pprdv_tt2.c
```

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**
** TrueType font support. These functions allow PPR to generate
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**
** The functions in this file do most of the work to convert a
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**
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**
** Last revised 11 July 1995.
*/

+++++

truetype.h

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*/

```
/*
** ~ppr/src/include/typetype.h
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**
** This include file is shared by the source files
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**
** Last modified 19 April 1995.
*/
+++++
```

_tkmini.h

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PCG Random Number Generation for C.

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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MT19937

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The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

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js/libs/oj/v14.0.5/min/ojcspexpressionevaluator (cspexpressionevaluator.js)	MIT
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Chai

<https://github.com/chaijs/chai>

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expression-eval

<https://github.com/donmccurdy/expression-eval>

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jsep -

<https://github.com/soney/jsep>

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<http://proj4js.org/>

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require-css

<https://github.com/guybedford/require-css>

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Hammer.JS

<http://hammerjs.github.io/>

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Normalize.scss

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RequireJS i18n

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

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select2.js

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

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<http://jqueryui.com>

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

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jQuery JavaScript Library

<http://jquery.com/>

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JS Signals <<http://millermedeiros.github.com/js-signals/>>

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RequireJS text

<http://github.com/requirejs/text>

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RequireJS

<http://github.com/jrburke/requirejs>

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Preact

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8.7.1 jQuery

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external/sizzle

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8.7.2 jExcel

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lie

<https://github.com/calvinmetcalf/lie/releases/tag/v3.3.0>

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immediate

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set-immediate-shim

<https://github.com/sindresorhus/set-immediate-shim>

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readable-stream

<https://github.com/nodejs/readable-stream>

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inherits

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

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string_decoder

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safe-buffer

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util-deprecate

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core-util-is

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isarray

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process-nexttick-args

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/*

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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Name: Julia

The ziggurat methods were derived from Julia.

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Components

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Name: OpenBLAS

Files: numpy/.dylibs/libscipy_openblas*.so

Description: bundled as a dynamically linked library

Availability: <https://github.com/OpenMathLib/OpenBLAS/>

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Name: LAPACK

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Name: libquadmath

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Written by Francois-Xavier Coudert <fxcoudert@gcc.gnu.org>

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Name: fast_matrix_market

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Name: pystreambuf

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Name: ID

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Name: L-BFGS-B

Files: scipy/optimize/lbfgsb/*

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L-BFGS-B is a limited-memory quasi-Newton code for bound-constrained optimization, i.e. for problems where the only constraints are of the form $l \leq x \leq u$.

This is a Python wrapper (using F2PY) written by David M. Cooke
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References

- * R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory Algorithm for Bound
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ACM Transactions on Mathematical Software, 23, 4, pp. 550 - 560.
- * J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-BFGS-B,
FORTRAN routines for large scale bound constrained optimization (2011),
ACM Transactions on Mathematical Software, 38, 1.

The Python wrapper

=====

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Example usage

=====

An example of the usage is given at the bottom of the lbfgsb.py file.
Run it with 'python lbfgsb.py'.

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Name: LAPJVsp

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Name: Faddeeva

Files: scipy/special/Faddeeva.*

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Name: qd

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Name: pypocketfft

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Name: ampgo

Files: benchmarks/benchmarks/go_benchmark_functions/*.py

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Name: pybind11

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Name: HiGHS

Files: scipy/optimize/_highs/*

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Name: Boost

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Name: Biasedurn

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Name: UNU.RAN

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Name: NumPy

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Name: array-api-compat

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Name: Tempita

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Name: OpenBLAS

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Name: libquadmath

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Written by Francois-Xavier Coudert <fxcoudert@gcc.gnu.org>

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src/main/java/org/codehaus/stax2/typed/Base64Variant.java:

```
/* Stax2 extension for basic Stax API (JSR-173).
```

```
*
```

```
* Copyright (c) 2005- Tatu Saloranta, tatu.saloranta@iki.fi
```

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8.11 Ryan Niemeyer, Technology: knockout-postbox

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