

# **Oracle Financial Services Analytical Applications Modern Risk and Finance**

## **Licensing Information User Manual**

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**ORACLE**  
Financial Services

**ORACLE**

## OFSAA MRF Licensing Information User Manual

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# Document Control

Version Number	Revision Date	Change Log
1.0	December 2019	First release
2.0	March 2020	Updated name of Oracle Insurance International Financial Reporting Standards 17 Analyzer Pack to Oracle Financial Services Insurance Accounting Analyzer Pack
3.0	November 2020	Updated versions for POI, Jackson, Jackson databind, jQuery, Log4J
4.0	October 2021	Removed licensing information for FCCM products.
5.0	April 2023	Added information for Oracle JET

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# 1 Licensing Information

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## 2 Product Family - Platform

This chapter includes the following product application:

**Topic:**

- [Oracle Financial Services Advanced Analytical Applications Infrastructure](#)

### 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"> <li>• Analytical Applications Infrastructure</li> <li>• Big Data Processing</li> <li>• Enterprise Modeling</li> <li>• Inline Processing Engine</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites <ul style="list-style-type: none"> <li>▪ Operating System <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux (x86-64)</li> <li>— Oracle Solaris(SPARC)</li> <li>— IBM AIX (PowerPC)</li> <li>— Shell</li> </ul> </li> <li>▪ Java Runtime Environment <ul style="list-style-type: none"> <li>— Oracle Linux / Red Hat Enterprise Linux</li> <li>— Oracle Solaris</li> <li>— IBM AIX</li> </ul> </li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP <ul style="list-style-type: none"> <li>— Oracle Hyperion Essbase</li> <li>— Oracle OLAP</li> </ul> </li> <li>▪ Web Application Server <ul style="list-style-type: none"> <li>— WebLogic</li> <li>— WebSphere</li> <li>— Apache Tomcat</li> </ul> </li> <li>▪ Oracle Labs Data Studio</li> </ul> <li>• Oracle JET 11.1.2</li> <li>• Oracle Stack Libraries used in the application pack <ul style="list-style-type: none"> <li>▪ None</li> </ul> </li> <li>• Third party software tools used in the application pack <ul style="list-style-type: none"> <li>▪ Apache 2.0 <ul style="list-style-type: none"> <li>— ant-1.10.1.jar</li> <li>— batik-transcoder-1.10.jar</li> <li>— cglib-3.2.5.jar</li> <li>— cglib-nodep-3.2.5.jar</li> <li>— commons-beanutils-1.9.3.jar</li> <li>— commons-codec-1.10.jar</li> <li>— commons-collections4-4.1.jar</li> <li>— commons-logging-1.1.1.jar</li> </ul> </li> </ul> </li> </li></ul>

Products	Licensing Description
	<ul style="list-style-type: none"> <li>— commons-discovery-0.5.jar</li> <li>— commons-fileupload-1.3.3.jar</li> <li>— commons-io-2.5.jar</li> <li>— commons-lang3-3.2.jar</li> <li>— commons-logging-1.2.jar</li> <li>— Commons-math3-3.6.1.jar</li> <li>— commons-pool2-2.4.2.jar</li> <li>— commons-vfs2-2.2.jar</li> <li>— dom4j-1.6.1.jar</li> <li>— ezmorph-1.0.6.jar</li> <li>— fop-2.2.jar</li> <li>— freemarker-2.3.22.jar</li> <li>— hadoop 2.8.1</li> <li>— Jackson 2.11.1.jar</li> <li>— jackson-core-asl-1.9.13.jar</li> <li>— jackson-mapper-asl-1.9.13.jar</li> <li>— jetty 9.4.11</li> <li>— joda-time-2.2.jar</li> <li>— json-lib-2.4-jdk15.jar</li> <li>— Kafka 0.11.0.0</li> <li>— log4j-2.12.1.jar</li> <li>— OpenCMIS 1.1.0</li> <li>— opensaml-3.3.0.jar</li> <li>— poi-4.1.1.jar</li> <li>— serializer-2.10.0.jar</li> <li>— Spring 4.3.18</li> <li>— velocity-1.7.jar</li> <li>— xalan-2.7.2.jar</li> <li>— xerces.jar</li> <li>— xlrd-1.2.2.jar</li> <li>— xmlbeans-2.6.0.jar</li> <li>— xml-resolver-1.2.jar</li> <li>— Zed Attack Proxy (ZAP) 2.6.0</li> <li>▪ BSD license               <ul style="list-style-type: none"> <li>— esapi-2.1.0.1.jar (Enterprise Security API (ESAPI) 2.1.0.1)</li> <li>— stax2-api-4.0.0.jar (stax2-api 4.0.0)</li> </ul> </li> <li>▪ BSD               <ul style="list-style-type: none"> <li>— jsch-0.1.54.jar (JSch 0.1.54)</li> </ul> </li> <li>▪ BSD/Apache style               <ul style="list-style-type: none"> <li>— jdom.jar (JDOM 1.1.3)</li> </ul> </li> <li>▪ BSD-3</li> </ul>

Products	Licensing Description
	<ul style="list-style-type: none"> <li>— OWASP Java Encoder (OWASP Java Encoder Project 1.2.1)</li> <li>▪ Burp Suite Free Edition License Agreement                             <ul style="list-style-type: none"> <li>— Burp Suite Free Edition 1.7.19</li> </ul> </li> <li>▪ CDDL 1.0 &amp; GPL                             <ul style="list-style-type: none"> <li>— Stax-api 1.0-2</li> </ul> </li> <li>▪ EPL 1.0 and EDL 1.0                             <ul style="list-style-type: none"> <li>— eclipselink-2.6.4.jar (Eclipse Persistence Services Project (Eclipselink) 2.6.4)</li> </ul> </li> <li>▪ EPL 1.0                             <ul style="list-style-type: none"> <li>— ecj-4.6.1.jar</li> </ul> </li> <li>▪ junit-4.12.jar (JUnit 4.12) GNU</li> <li>▪ Font Awesome 4.4.0</li> <li>▪ MIT                             <ul style="list-style-type: none"> <li>— CKEditor 4 4.6.2</li> <li>— FullCalendar 3.9.0</li> <li>— jQuery 3.5.1</li> <li>— knockout-postbox 0.6</li> </ul> </li> <li>▪ numpy developers                             <ul style="list-style-type: none"> <li>— numpy 1.14.3</li> </ul> </li> <li>▪ Raphael JavaScript Library 2.1 2.2.1 Public                             <ul style="list-style-type: none"> <li>— aopalliance-1.0.jar</li> </ul> </li> <li>▪ scipy developers                             <ul style="list-style-type: none"> <li>— SciPy</li> </ul> </li> </ul>

### 3 Product Family - Risk and Finance

This chapter includes the following product application:

**Topic:**

- [Oracle Financial Services Insurance Accounting Analyzer Pack](#)

#### 3.1 Oracle Financial Services Insurance Accounting Analyzer Pack

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

## 4 Product Family - Data Management

This chapter includes the following product applications:

**Topics:**

- [Oracle Financial Services Data Management Application Pack](#)
- [Oracle Financial Services Data Foundation Pack](#)

### 4.1 Oracle Financial Services Data Management Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services Data Management (OFS DM) Application Pack includes the following applications:</p> <ul style="list-style-type: none"> <li>• Oracle Financial Services Reconciliation Framework</li> <li>• Oracle Financial Services Data Governance for US Regulatory Reporting</li> <li>• Oracle Financial Services Data Governance for European Central Reporting</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites                             <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> </ul> </li> <li>• Third party software tools used in the application pack                             <ul style="list-style-type: none"> <li>▪ Log4J 2.12.1</li> <li>▪ XWork 2.3.16.3</li> <li>▪ Commons-lang3 (3.1)</li> <li>▪ Commons-beanutils-1.8.3)</li> </ul> </li> </ul>

### 4.2 Oracle Financial Services Data Foundation Pack

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

Products	Licensing Description
	<ul style="list-style-type: none"><li>▪ commons-io-2.5.jar</li><li>▪ commons-fileupload-1.3.3.jar</li><li>▪ commons-lang3-3.2.jar</li><li>▪ poi-4.1.1.jar</li></ul>

## 5 Product Family - Regulatory Reporting

This chapter includes the following product applications:

**Topics:**

- [OFS Regulatory Reporting for European Banking Authority](#)
- [OFS Regulatory Reporting for European Banking Authority – Lombard Risk Integration Pack](#)
- [OFS Regulatory Reporting for Reserve Bank of India – Lombard Risk Integration Pack](#)
- [OFS Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack](#)
- [OFS Regulatory Reporting for US Federal Reserve](#)
- [Oracle Financial Services AgileREPORTER Application Pack](#)

### 5.1 OFS Regulatory Reporting for European Banking Authority

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for European Banking Authority (OFS AGILE RP EBA) application pack includes the following product:</p> <ul style="list-style-type: none"> <li>• Oracle Financial Services AgileREPORTER Application</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites                             <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Financial Services Data Foundation 8.0.9.0.0 Application Pack</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> </ul> </li> <li>• Third party software tools used in the application pack                             <ul style="list-style-type: none"> <li>▪ Lombard Risk Reporting Portal</li> </ul> </li> </ul>

### 5.2 OFS Regulatory Reporting for European Banking Authority – Lombard Risk Integration Pack

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for European Banking Authority – Lombard Risk Integration Pack (OFS REG REP EBA) application pack includes the following product:</p> <ul style="list-style-type: none"> <li>• Oracle Financial Services Regulatory Reporting for European</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites                             <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Financial Services Data Foundation 8.0.9.0.0 Application Pack</li> <li>▪ Oracle Database Server and Client</li> </ul> </li> </ul>

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

### 5.3 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 product:</p> <ul style="list-style-type: none"> <li>• Oracle Financial Services Regulatory Reporting for Reserve Bank of India (OFS AGILE RP RBI)</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites                             <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Financial Services Data Foundation 8.0.9.0.0 Application Pack</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> </ul> </li> <li>• Third party software tools used in the application pack                             <ul style="list-style-type: none"> <li>▪ Lombard Risk Reporting Portal</li> </ul> </li> </ul>

### 5.4 OFS Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for US Federal Reserve – Lombard Risk Integration Pack (OFS REG REP US FED) application pack includes the following product:</p> <ul style="list-style-type: none"> <li>• Oracle Financial Services Regulatory Reporting for US</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites                             <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Financial Services Data Foundation 8.0.9.0.0 Application Pack</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> </ul> </li> </ul>

Products	Licensing Description
Federal Reserve (OFS AGILE RP US FED)	<ul style="list-style-type: none"> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> <li>• Third party software tools used in the application pack <ul style="list-style-type: none"> <li>▪ Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 5.5 OFS Regulatory Reporting for US Federal Reserve

Products	Licensing Description
<p>Each Oracle Financial Services Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED) application pack includes the following product:</p> <ul style="list-style-type: none"> <li>• Oracle Financial Services AgileREPORTER Application</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Financial Services Data Foundation 8.0.9.0.0 Application Pack</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> </ul> </li> <li>• Third party software tools used in the application pack <ul style="list-style-type: none"> <li>▪ Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 5.6 Oracle Financial Services AgileREPORTER Application Pack

Products	Licensing Description
<p>Each Oracle Financial Services AgileREPORTER (OFS AgileREPORTER) application pack includes the following product:</p> <ul style="list-style-type: none"> <li>• Lombard Risk Reporting Portal</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites                             <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Financial Services Data Foundation 8.0.9.0.0 Application Pack</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> </ul> </li> <li>• Third party software tools used in the application pack                             <ul style="list-style-type: none"> <li>▪ Lombard Risk Reporting Portal</li> </ul> </li> </ul>

## 6 Product Family – Insurance

This chapter includes the following product application:

**Topic:**

- [Oracle Insurance Data Foundation Pack](#)

### 6.1 Oracle Insurance Data Foundation Pack

Products	Licensing Description
<p>Each Oracle Insurance Data Foundation (OIDF) applications pack includes the following product:</p> <ul style="list-style-type: none"> <li>• Oracle Insurance Data Foundation</li> </ul>	<ul style="list-style-type: none"> <li>• Prerequisites                             <ul style="list-style-type: none"> <li>▪ Operating System</li> <li>▪ Java Runtime Environment</li> <li>▪ Oracle Database Server and Client</li> <li>▪ OLAP</li> <li>▪ Web Server/ Web Application Server</li> <li>▪ Desktop Requirements</li> <li>▪ Directory Services</li> </ul> </li> <li>• Third party software tools used in the application pack                             <ul style="list-style-type: none"> <li>▪ commons-io-2.5.jar</li> <li>▪ commons-fileupload-1.3.3.jar</li> <li>▪ commons-lang3-3.2.jar</li> <li>▪ poi-4.1.1.jar</li> </ul> </li> </ul>

## 7 Third-Party Notices

The open source software's used in the OFSAA Modern Risk and Finance application packs are listed in the following table.

### 7.1 Commercial Software

Commercial software used in the OFSAA Modern Risk and Finance application packs are identified in the following table with the following license notes, restrictions, and disclaimers.

For 8.0.9 products, there are no Commercial Software being used.

Commercial software products or components distributed in the OFSAA Modern Risk and Finance application packs are identified in the following table along with the applicable licensing information.

Provider	Component(s)	Functionality	Licensing Information
None	None		

### 7.2 Open Source Software

Required notices for open source software products or components distributed in the OFSAA Modern Risk and Finance application packs 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-File upload	Scripting Platform Platform Persistence Tier and Install	Copyright © 1999-2012 The Apache Software Foundation This product includes software developed by The Apache Software Foundation ( <a href="http://www.apache.org/">http://www.apache.org/</a> ). 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 <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> . For a copy of the license, see <a href="#">Apache License, Version 2.0</a> .

Provider	Component(s)	Functionality	Licensing Information
	commons-fileupload-.jar commons-io.jar Commons-lang Commons-logging Commons-math.jar commons-pool.jar commons-vfs.jar dom4j.jar ezmorph.jar Fontbox Fop.jar Freemarker.jar Hadoop Hadoop+CDH 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 POI serializer.jar Spring Spring-web.jar sqoop-1.4.7 Struts 2 velocity.jar Xalan Xalan Java Xerces Xerces xlr.jar		

Provider	Component(s)	Functionality	Licensing Information
	xmlbeans.jar xml-resolver.jar XWork Zed Attack Proxy (ZAP)		
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 <a href="#">Atsuhiko Yamanaka, JCraft, Inc.</a>
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 <a href="#">Boost Software</a>
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 <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> . For a copy of the license, see <a href="#">Apache License, Version 2.0</a> .
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Chai - v4.2.0

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

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expression-eval - v2.0.0

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

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jsep - v0.3.4

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

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proj4js - v2.5.0

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require-css - v0.1.10

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

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Hammer.JS - v2.0.8 - 2016-04-22

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

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Normalize.scss

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RequireJS i18n 2.0.2

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

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

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select2.js

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

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

<http://jqueryui.com>

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jQuery JavaScript Library v3.6.0

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

Author: Miller Medeiros

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RequireJS text 2.0.15

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

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RequireJS 2.3.6

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

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Knockout JavaScript library v3.5.1

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Preact - v10.5.13

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