

Oracle® Banking APIs

Licensing Guide



Patchset Release 22.2.5.0.0
G22030-01
October 2024

ORACLE®

Copyright © 2006, 2024, Oracle and/or its affiliates.

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

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

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

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

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

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

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

Contents

Preface

Purpose	v
Audience	v
Documentation Accessibility	v
Critical Patches	v
Diversity and Inclusion	vi
Conventions	vi
Related Resources	vi
Screenshot Disclaimer	vi
Acronyms and Abbreviations	vi

1 Overview

1.1 Oracle Banking APIs Licensing	1-1
1.2 Third-Party Licenses	1-1

2 Oracle Banking APIs Licensing

2.1 Oracle Banking APIs Infrastructure	2-1
2.1.1 Oracle Banking APIs Infrastructure	2-1
2.2 Oracle Banking APIs Development Kit	2-2
2.2.1 Oracle Banking APIs Development Kit	2-2
2.3 Oracle Banking APIs for Retail Banking	2-3
2.3.1 Oracle Banking APIs for Retail Banking	2-3
2.4 Oracle Banking APIs Small & Medium Business Servicing	2-4
2.5 Oracle Banking APIs Customer Financial Insights	2-4
2.5.1 Oracle Banking APIs Customer Financial Insights	2-4
2.6 Oracle Banking APIs Origination	2-5
2.6.1 Oracle Banking APIs for Origination of Liability Accounts	2-6
2.6.2 Oracle Banking APIs for Origination of Credit Cards	2-6
2.6.3 Oracle Banking APIs for Origination of Loans and Mortgages	2-7
2.7 Oracle Banking APIs for Corporate Banking	2-8
2.7.1 Oracle Banking APIs for Corporate Banking	2-8
2.8 Oracle Banking APIs for Bulk Transactions	2-12

2.8.1	Oracle Banking APIs for Bulk Transactions	2-12
2.9	Oracle Banking APIs for Trade Finance	2-14
2.9.1	Oracle Banking APIs for Trade Finance	2-14

3 Third-Party Licenses

3.1	Apache License, Version 2.0	3-1
3.1.1	Commons Codec – 1.11	3-5
3.1.2	cordova-plugin-facebook4 – 4.2.1	3-5
3.1.3	Cordova File Transfer Plugin – 1.7.1	3-5
3.1.4	Google HTTP Client Library for Java – 1.29.0	3-5
3.1.5	HttpComponents HttpClient – 4.5.7	3-6
3.1.6	HttpCore – 4.4.11	3-7
3.1.7	jackson-dataformat-yaml – 2.9.8	3-9
3.1.8	Javapoet – 1.11.1	3-9
3.1.9	swagger-jaxrs2 – 2.0.7	3-10
3.1.10	swagger-models – 2.0.7	3-14
3.1.11	ZXing – 3.3.3	3-15
3.2	A File Opener Plugin for Cordova – 2.2.0	3-16
3.3	Cordova Plugin for Barcode Scanner – 8.0.1	3-16
3.4	cordova-plugin-otp-auto-verification – 1.0.2	3-17
3.5	Java Hamcrest 2.1	3-17
3.6	JSON	3-18
3.7	JsonPath – 2.4.0	3-18
3.8	Jsoup - 1.11.3	3-21
3.9	Oracle JavaScript Extension Toolkit (JET) - 13.0.0	3-21
3.10	patternLock – 2.0.2	3-28
3.11	CK Editor – 4.11.x	3-29
3.12	cordova-plugin-firebase – 2.0.5	3-34
3.13	cordova-plugin-wkwebview-file-xhr – 2.1.1	3-35
3.14	REST-assured – 3.3.0	3-35

4 List of Topics

Index

Preface

- [Purpose](#)
- [Audience](#)
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Conventions](#)
- [Related Resources](#)
- [Screenshot Disclaimer](#)
- [Acronyms and Abbreviations](#)

Purpose

This guide is designed to help acquaint you with the Oracle Banking APIs application. This guide provides answers to specific features and procedures that the user need to be aware of the module to function successfully.

Audience

This document is intended for the following audience:

- Customers
- Partners

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at [Critical Patches, Security Alerts and](#)

Bulletins. All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Related Resources

For more information on any related features, refer to the following documents:

- [Oracle Banking APIs Installation Manuals](#)

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

Table 1 Acronyms and Abbreviations

Abbreviation	Description
OBAPI	Oracle Banking APIs

1

Overview

This chapter presents an overview of the licensing details of Oracle Banking APIs and its associated third-party products.

- [Oracle Banking APIs Licensing](#)
- [Third-Party Licenses](#)

1.1 Oracle Banking APIs Licensing

The "Oracle Banking APIs Licensing" describes the Oracle Banking licensing details including:

- Separately licensed prerequisite products
- Components and Features included
- Restricted use licensing
- General licensing information

1.2 Third-Party Licenses

The "Third-Party Licenses" includes licensing and copyright information for third-party products included with the Oracle Banking APIs licensed software. For more information refer [Chapter 4 Third-Party Licenses](#).

2

Oracle Banking APIs Licensing

This chapter covers licensing information for Oracle Banking APIs.

- [Oracle Banking APIs Infrastructure](#)
This section presents the licensing information of Oracle Banking APIs Infrastructure.
- [Oracle Banking APIs Development Kit](#)
This section presents licensing information for Oracle Banking APIs Development Kit.
- [Oracle Banking APIs for Retail Banking](#)
This section presents licensing information for Oracle Banking APIs for Retail Banking.
- [Oracle Banking APIs Small & Medium Business Servicing](#)
This section presents licensing information for Oracle Banking APIs Small & Medium Banking.
- [Oracle Banking APIs Customer Financial Insights](#)
This chapter includes licensing information for Oracle Banking APIs Customer Financial Insights Applications.
- [Oracle Banking APIs Origination](#)
This section presents the licensing information of Oracle Banking APIs Origination Applications.
- [Oracle Banking APIs for Corporate Banking](#)
This section presents licensing information for Oracle Banking APIs for Corporate Banking.
- [Oracle Banking APIs for Bulk Transactions](#)
This section presents licensing information for Oracle Banking APIs for Bulk Transactions.
- [Oracle Banking APIs for Trade Finance](#)
This section presents licensing information for Oracle Banking APIs for Trade Finance.

2.1 Oracle Banking APIs Infrastructure

This section presents the licensing information of Oracle Banking APIs Infrastructure.

- [Oracle Banking APIs Infrastructure](#)

2.1.1 Oracle Banking APIs Infrastructure

The Oracle Banking APIs Infrastructure provides the framework and infrastructure components of the omni channel Banking APIs platform. It includes capabilities that enable users of the financial institution to configure and manage the application.

The Oracle Banking APIs Infrastructure allows the bank to build applications using the APIs, collaborate with third party providers or offer banking as a service. Oracle Banking APIs enables the bank customers to access the banking services through any access point which has been built on top of the APIs exposed by Oracle Banking APIs.

Oracle Banking APIs also provides you with user interfaces for administrator capabilities for various set ups and maintenances offered by the application.

The User Interface for Oracle Banking APIs suite also provides you with following

- UI code for implementing responsive web design using Oracle JavaScript Extension Toolkit (JET). You will be free to modify the UI as per your requirements, however the support will be provided for the UI shipped out of the box
- Reference code for consuming Oracle Banking APIs.

3.1.1.1 Separately Licensed Prerequisite Products

The following prerequisite products require separate licenses:

- Oracle Database Enterprise Edition
- Oracle Weblogic Server Standard Edition or Oracle Weblogic Server Enterprise Edition or Oracle Weblogic Suite for Oracle Applications

3.1.1.2 Restricted Use Licensing

Product or Component	Available Features
Oracle JavaScript Extension Toolkit (JET) 6.2	UI (User Interface) framework Note that Oracle JavaScript Extension Toolkit (JET) 6.2 shall be used only for building and modifying UI (User Interface) provided within Oracle Banking APIs for administrators capabilities. It shall not be used for building UI (User Interface) for applications outside Oracle Banking APIs.

3.1.1.3 General Licensing Information

Banking APIs Infrastructure is licensed on the basis of instance matrix. One instance of Banking APIs Infrastructure should be licensed for running Live, DR, UAT or Sandbox environments.

2.2 Oracle Banking APIs Development Kit

This section presents licensing information for Oracle Banking APIs Development Kit.

- [Oracle Banking APIs Development Kit](#)

2.2.1 Oracle Banking APIs Development Kit

The Oracle Banking APIs for Development Kit enables the banks to create new APIs and repurpose backend product processor APIs as Open API.

3.2.1.1 Separately Licensed Prerequisite Products

The following prerequisite products require separate licenses:

- Oracle Banking APIs Infrastructure

3.2.1.2 Components and Features Included

Licensed Program	Features / Component Included with License
Oracle Banking APIs Development Kit	• Create new APIs • Repurpose backend product processor APIs as Open API.

3.2.1.3 Restricted Use Licensing

Product or Component	Available Features
NA	NA

3.2.1.4 General Licensing Information

Oracle Banking APIs for Development Kit can be licensed with API calls Application User.

2.3 Oracle Banking APIs for Retail Banking

This section presents licensing information for Oracle Banking APIs for Retail Banking.

- [Oracle Banking APIs for Retail Banking](#)

2.3.1 Oracle Banking APIs for Retail Banking

The Oracle Banking APIs for Retail Banking enables the financial institutes to expose APIs for retail banking products and services for integrating with various application built for Retail customers of the financial institution

The Oracle Banking APIs Retail Banking includes APIs for functions listed below:

- Account Inquiries
- Customer services
- Customer Inquiries
- Credit Cards
- Loans
- Term Deposits
- Payee Maintenance
- Fund Transfers to
 - Own Accounts
 - Domestic Accounts
 - International Accounts
- Peer to Peer Payments
- Merchant Payments
- Bill Payments
- APIs for Helpdesk User

In order to process the above functionalities, if there is any infrastructure API called viz limits, account/transaction access/entitlements, 2FA etc. then that API call will be measured as part of this SKU.

3.3.1.1 Separately Licensed Prerequisite Products

The following prerequisite products require separate licenses:

- Oracle Banking APIs Infrastructure

3.3.1.2 Components and Features Included

Licensed Program	Features / Component Included with License
Oracle Banking APIs for Retail Banking	• Account Inquiries • Customer services • Customer Inquiries • Credit Cards • Loans • Term Deposits. • Payee Maintenance • Fund Transfers to – Own Accounts – Domestic Accounts – International Accounts • Peer to Peer Payments • Merchant Payments • Bill Payments • APIs for Helpdesk User

3.3.1.3 Restricted Use Licensing

Product or Component	Available Features
NA	NA

3.3.1.4 General Licensing Information

Oracle Banking APIs for Retail Banking can be licensed with API calls metric.

2.4 Oracle Banking APIs Small & Medium Business Servicing

This section presents licensing information for Oracle Banking APIs Small & Medium Banking.

The bank must acquire a license for the corporate banking module in order to access the small & medium business banking module.

2.5 Oracle Banking APIs Customer Financial Insights

This chapter includes licensing information for Oracle Banking APIs Customer Financial Insights Applications.

- [Oracle Banking APIs Customer Financial Insights](#)

2.5.1 Oracle Banking APIs Customer Financial Insights

The Oracle Banking APIs for Customer Financial Insights enables the financial institution to expose APIs of Personal Financial products and services for integrating with various application built for Retail customers of the financial institution. It also supports Aggregation Services that enables the banks to provide aggregated view to the customers for accounts maintained across banks. The capability enables retail users of the bank to link their external

banks accounts with their subscriber id. The Bank fetches the external bank accounts information using the public APIs published by external banks.

The Oracle Banking APIs Customer Financial Insights includes functionalities listed below:

- Personal Finance Management
- Creation of Personal Financial goals
- Managing of Personal Financial goals
- Spending Analysis
- Budget Maintenance
- Aggregation Services
- Aggregated view of customer's accounts across banks

In order to process the above functionalities, if there is any infrastructure API called viz limits, account/transaction access/entitlements, 2FA then that API call will be measured as part of this SKU.

3.4.1.1 Separately Licensed Prerequisite Products

The following prerequisite products require separate licenses:

- Oracle Banking APIs for Retail Banking

3.4.1.2 Components and Features Included

Licensed Program	Features / Component Included with License
Oracle Banking APIs for Customers Financial Insights	• Personal Finance Management – Creation of Personal Financial goals – Managing of Personal Financial goals – Spending Analysis – Budget Maintenance • Aggregation Services – Consolidated view of all accounts on an Aggregation dashboard,

3.4.1.3 Restricted Use Licensing

Product or Component	Available Features
NA	NA

3.4.1.4 General Licensing Information

Oracle Banking APIs for Customer Financials Insights can be licensed with API calls metric.

2.6 Oracle Banking APIs Origination

This section presents the licensing information of Oracle Banking APIs Origination Applications.

- Oracle Banking APIs for Origination of Liability Accounts

- [Oracle Banking APIs for Origination of Credit Cards](#)
- [Oracle Banking APIs for Origination of Loans and Mortgages](#)

2.6.1 Oracle Banking APIs for Origination of Liability Accounts

The Oracle Banking APIs for Origination of Liability Accounts enables applicants, both existing customers as well as prospects to apply for savings, checking and deposit products offered by the bank, it enables the applicants to view/update/track their applications once they are saved or submitted.

In order to process the above functionalities, if there is any infrastructure API called viz limits, account/transaction access/entitlements, 2FA etc. then that API call will be measured as part of this SKU.

3.5.1.1 Separately Licensed Prerequisite Products

The following prerequisite products require separate licenses:

- Oracle Banking APIs Infrastructure

3.5.1.2 Components and Features Included

Licensed Program	Features / Component Included with License
Oracle Banking APIs for Origination of Liability Accounts	Savings Account Origination Checking Account Origination Term Deposit Origination

3.5.1.3 Restricted Use Licensing

Product or Component	Available Features
NA	NA

3.5.1.4 General Licensing Information

Oracle Banking APIs for Origination of Liability Accounts can be licensed with API calls metric.

2.6.2 Oracle Banking APIs for Origination of Credit Cards

The Oracle Banking APIs for Origination of Credit Cards enables applicants, both existing customers as well as prospects to apply for credit card products offered by the bank, it enables the applicants to view/update/track their applications once they are saved or submitted.

In order to process the above functionalities, if there is any infrastructure API called viz limits, account/transaction access/entitlements, 2FA etc. then that API call will be measured as part of this SKU.

3.5.2.1 Separately Licensed Prerequisite Products

The following prerequisite products require separate licenses:

- Oracle Banking APIs for Infrastructure

3.5.2.2 Components and Features Included

Licensed Program	Features / Component Included with License
Oracle Banking APIs for Origination of Credit Cards	Credit Cards

3.5.2.3 Restricted Use Licensing

Product or Component	Available Features
NA	NA

3.5.2.4 General Licensing Information

Oracle Banking APIs for Origination of Credit Cards can be licensed with API calls metric.

2.6.3 Oracle Banking APIs for Origination of Loans and Mortgages

The Oracle Banking APIs for Origination of Loans and Mortgages enables applicants, both existing customers as well as prospects to apply for unsecured personal loan, payday loan, auto/vehicle loan, and mortgage loan products offered by the bank, it enables the applicants to view/update/track their applications once they are saved or submitted.

In order to process the above functionalities, if there is any infrastructure API called viz limits, account/transaction access/entitlements, 2FA etc. then that API call will be measured as part of this SKU.

3.5.3.1 Separately Licensed Prerequisite Products

The following prerequisite products require separate licenses:

- Oracle Banking APIs Infrastructure

3.5.3.2 Components and Features Included

Licensed Program	Features / Component Included with License
Oracle Banking APIs for Origination of Loans and Mortgages	Unsecured Personal Loan Auto/Vehicle Loan Mortgage Loan Payday Loan

3.5.3.3 Restricted Use Licensing

Product or Component	Available Features
NA	NA

3.5.3.4 General Licensing Information

Oracle Banking APIs for Origination of Loans and Mortgages can be licensed with API calls metric.

2.7 Oracle Banking APIs for Corporate Banking

This section presents licensing information for Oracle Banking APIs for Corporate Banking.

- [Oracle Banking APIs for Corporate Banking](#)

2.7.1 Oracle Banking APIs for Corporate Banking

The Oracle Banking APIs of Corporate Banking enables the financial institutions to expose these API's of Corporate Banking Products and Services for integration with various applications built for their SME and Corporate customers.

The Oracle Banking APIs Corporate Banking includes APIs for functions listed below:

- Account Inquiries
- Customer Services
- Corporate Facility Origination
 - Request a New Credit facility under an existing liability
 - Request a Sub Facility under an existing facility
 - Amendment of Existing Facility
 - Request for new Collateral Evaluation
 - Revaluation of an existing collateral
 - Credit Facility Application Tracker
- Corporate Facility Servicing
 - Overview of Facilities and Collaterals
 - View Summary and Details of Facilities
 - View Summary and Details of Collaterals
- Corporate Loans Origination
 - Request for New Term Loan
 - New Working Capital loan
 - New Equipment Loan
 - New Real Estate Loan
 - Corporate Loan Drawdown
 - Request initiation
 - Loan Application Tracker
- Corporate Loans Servicing
 - Loans Accounts Overview
 - Loan Accounts Summary i.e. Details and Account Activity
 - Loan Repayment
 - Schedule Inquiry and Disbursement Inquiry
- Term Deposits.

- Payee Maintenance
- Fund Transfers to
 - Own Accounts
 - Domestic Accounts
 - International Accounts
- Bill Payments
- Bulk Payments
- Line Limit /facility inquiries
- APIs for Helpdesk User
- Virtual Account Management
 - Maintenance and View of Virtual Entity
 - Maintenance and View of Virtual Accounts
 - Maintenance and View of Virtual Account Structure
 - Maintenance and View of Remitter List
 - Bulk Upload for Creation of Virtual Account Structure and Virtual Accounts
 - Movement of money between Virtual Accounts
 - Manage and View Virtual Multi-Currency Account
 - Payments & Transfers using Virtual accounts
 - Bulk File upload option for creating Remitter lists, virtual accounts & structures
 - Dashboard widgets for quick info & insights
 - Alerts & notifications (edited)
- Liquidity Management
 - Account Structure Summary
 - Account Structure Detail
 - Create Account Structure
 - Edit Account Structure
 - Sweep Log
- Supply Chain Finance
 - Dashboard for SCF
 - On-board Counter party
 - View Associated Party
 - Create, Edit and View Programs
 - Create Edit and View Invoices
 - Bulk File Upload Invoice
 - Accept/Reject Invoice
 - Cancel Invoice
 - Request Finance
 - View Finances

- Repayment of Finance
- Cash Management Service
 - Dashboard for CMS
 - On-board Associated party
 - View Associated Party
 - Create Edit and View Invoices
 - Bulk File Upload Invoice
 - Accept/Reject Invoice
 - Cancel Invoice
 - Cash Flow Forecast

In order to process the above functionalities, if there is any infrastructure API called viz limits, account/transaction access/entitlements, 2FA then that API call will be measured as part of this SKU.

3.6.1.1 Separately Licensed Prerequisite Products

The following prerequisite products require separate licenses:

- Oracle Banking APIs Infrastructure
- Oracle Banking Payments or any other third-party system for payments
- Oracle Banking Credit Facility Process Management System (Mid Office) and Oracle Banking Enterprise Limits and Collateral Management (Back Office) or any other third-party system for limits/facility management.
- Oracle Banking Corporate Lending Process Management (Mid Office) and Oracle Banking Corporate Lending (Back Office) or any other third-party system for loan management.
- Oracle Banking Virtual Account Management or any other third-party system for Virtual Account Management.
- Oracle Banking Liquidity Management or any other third-party system for Liquidity Management.
- Oracle Banking Cash Management Service or any other third-party system for Cash Management Services
- Oracle Banking Supply Chain Finance or any other third-party system for supply chain finance.

3.6.1.2 Components and Features Included

Licensed Program	Features / Component Included with License
Oracle Banking APIs for Corporate Banking	• Account Inquiries • Customer Services • Corporate Facility Origination – Request a New Credit facility under an existing liability – Request a Sub Facility under an existing facility – Amendment of Existing Facility – Credit Facility Application Tracker – Request for new Collateral Evaluation – Revaluation of an existing collateral • Corporate Facility Servicing1 – Overview of Facilities and Collaterals – View Summary and Details of Facilities – View Summary and Details of Collaterals • Corporate Loans Originations – Request for New Term Loan – New Working Capital Loan – New Equipment Loan – New Real Estate Loan – Loan Application Tracker – Corporate Loan Drawdown Request initiation and Application Tracker • Corporate Loans Servicing2 – Loans Accounts Overview – Loan Accounts Summary i.e. Details and Account Activity – Loan Repayment – Schedule Inquiry and Disbursement Inquiry • Term Deposits • Payee Maintenance • Fund Transfers to – Own Accounts – Domestic Accounts – International Accounts • Bill Payments • Bulk Payments • Line Limit /facility inquiries • APIs for Helpdesk Users • Virtual Account Management 3 – Maintenance and View of Virtual Entity – Maintenance and View of Virtual Accounts – Maintenance and View of Virtual Account Structure – Maintenance and View of Remitter List – Bulk Upload for Creation of Virtual Account Structure and Virtual Accounts. – Movement of money between Virtual Accounts. – Manage and View Virtual Multi-Currency Account – Payments & Transfers using Virtual accounts – Bulk File upload option for creating Remitter lists, virtual accounts & structures. – Dashboard widgets for quick info & insights – Alerts & notifications (edited) • Liquidity Management 4 – Account Structure Summary

Licensed Program	Features / Component Included with License
	– Account Structure Detail – Create Account Structure – Edit Account Structure – Sweep Log • Supply Chain Finance5 – Dashboard for SCF – On-board Counter party – View Associated Party – Create, Edit and View Programs – Create Edit and View Invoices – Bulk File Upload for Invoice – Accept/Reject Invoice – Cancel Invoice – Request Finance – View Finances • Cash Management Service6 – Dashboard for CMS – On-board Counter party – View Associated Party – Create Edit and View Invoices – Bulk File Upload Invoice – Accept/Reject Invoice – Cancel Invoice – Cash Flow Forecast
	1 Prerequisite Oracle Banking Corporate Lending Process Management
	2 Prerequisite Oracle Banking Credit Facilities Process Management
	3 Prerequisite Oracle Banking Virtual Account Management
	4 Prerequisite Oracle Banking Liquidity Management
	5 Prerequisite Oracle Banking Supply Chain Finance
	6 Prerequisite Oracle Banking Cash Management Services

3.6.1.3 Restricted Use Licensing

Product or Component	Available Features
NA	NA

3.6.1.4 General Licensing Information

Oracle Banking APIs Corporate Banking can be licensed with API calls metric.

2.8 Oracle Banking APIs for Bulk Transactions

This section presents licensing information for Oracle Banking APIs for Bulk Transactions.

- [Oracle Banking APIs for Bulk Transactions](#)

2.8.1 Oracle Banking APIs for Bulk Transactions

The Oracle Banking APIs for Bulk Transactions includes APIs for functions listed below-

- Internal Payments
- Domestic Payments
- International Payments
- Demand Drafts
- Mixed Payments
- Payee Creation
- Virtual Account Creation for VAM
- Virtual Account Structure Creation for VAM
- Remitter ID Creation for VAM
- Invoice File Upload for SCF

In order to process the above functionalities, if there is any infrastructure API called viz limits, account/transaction access/entitlements, 2FA then that API call will be measured as part of this SKU.

3.7.1.1 Separately Licensed Prerequisite Products

The following prerequisite products require separate licenses:

- Oracle Banking APIs for Corporate Banking

3.7.1.2 Components and Features Included

Licensed Program	Features / Component Included with License
Oracle Banking APIs for Bulk Transactions	• Internal Payments • Domestic Payments • International Payments • Demand Drafts • Mixed Payments • Payee Creation • Virtual Account Creation for VAM1 • Virtual Account Structure Creation for VAM1 • Remitter ID Creation for VAM1 • Invoice File Upload for SCF2 1 Prerequisite Oracle Banking Virtual Account Management 2 Prerequisite Oracle Banking Supply Chain Finance

3.7.1.3 Restricted Use Licensing

Product or Component	Available Features
NA	NA

3.7.1.4 General Licensing Information

Oracle Banking APIs for Bulk Transactions can be licensed with API calls metric.

2.9 Oracle Banking APIs for Trade Finance

This section presents licensing information for Oracle Banking APIs for Trade Finance.

- [Oracle Banking APIs for Trade Finance](#)

2.9.1 Oracle Banking APIs for Trade Finance

The Option Oracle Banking APIs for Trade Finance contains functionalities related to Trade Finance listed below :

- Initiate Letter of Credit
- Amend Letter of Credit
- View Import and Export Letter of Credit
- Initiate Outward Bank Guarantee
- View Inward and Outward Bank Guarantee
- Amend Bank Guarantee
- Initiate Export Bill under LC
- View Import and Export Bills under LC
- Initiate Export Collection

View Import and Export Collection

- Customer Acceptance – LC and BG Amendment and Bill Discrepancies

In order to process the above functionalities, if there is any infrastructure API called viz limits, account/transaction access/entitlements, 2FA then that API call will be measured as part of this SKU.

3.8.1.1 Separately Licensed Prerequisite Products

The following prerequisite products require separate licenses:

- Oracle Banking APIs for Corporate Banking
- Oracle Banking Trade Finance or any other third-party Trade Finance back office
- Oracle Banking Trade Finance Process Management or any other third-party system for Trade Finance Process Management

3.8.1.2 Components and Features Included

Licensed Program	Features / Component Included with License
Oracle Banking APIs for Trade Finance	• Initiate Letter of Credit^{1, 2} • Amend Letter of Credit^{1, 2} • View Import and Export Letter of Credit¹ • Initiate Outward Bank Guarantee^{1, 2} • View Inward and Outward Bank Guarantee¹ • Amend Bank Guarantee^{1, 2} • Initiate Export Bill under LC¹ • Settlement of Bill under LC² • View Import and Export Bills under LC¹ • Initiate Export Collection¹ View Import and Export Collection¹ • Customer Acceptance – LC and BG Amendment and Bill Discrepancies^{1, 2} ¹Prerequisite Oracle Banking Trade Finance ²Prerequisite Oracle Banking Trade Finance Process Management.

3.8.1.3 Restricted Use Licensing

Product or Component	Available Features
NA	NA

3.8.1.4 General Licensing Information

Oracle Banking APIs Trade Finance can be licensed with API calls metric.

3

Third-Party Licenses

This chapter includes licensing and copyright information for third-party products included with the Oracle Banking APIs licensed software.

- [Apache License, Version 2.0](#)
- [A File Opener Plugin for Cordova – 2.2.0](#)
- [Cordova Plugin for Barcode Scanner – 8.0.1](#)
- [cordova-plugin-otp-auto-verification – 1.0.2](#)
- [Java Hamcrest 2.1](#)
- [JSON](#)
- [JsonPath – 2.4.0](#)
- [Jsoup - 1.11.3](#)
- [Oracle JavaScript Extension Toolkit \(JET\) - 13.0.0](#)
- [patternLock – 2.0.2](#)
- [CK Editor – 4.11.x](#)
- [cordova-plugin-firebase – 2.0.5](#)
- [cordova-plugin-wkwebview-file-xhr – 2.1.1](#)
- [REST-assured – 3.3.0](#)

3.1 Apache License, Version 2.0

The following technologies from the Apache Software Foundation are based on Apache License, Version 2.0, January 2004.

- [Commons Lang3 – 3.8.1](#)
- [Cordova Device Plugin – 2.0.2](#)
- [Cordova Plugin File – 6.0.1](#)
- [Cordova Geolocation Plugin – 4.0.1](#)
- [Cordova Globalization Plugin – 1.11.0](#)
- [cordova-plugin-android-fingerprint-auth – 1.5.0](#)
- [Cordova Whitelist Plugin – 1.3.3](#)
- [jackson-annotations – 2.9.8](#)
- [jackson-core – 2.9.8](#)
- [jackson-databind – 2.9.8](#)
- [jackson-jaxrs-base – 2.9.8](#)
- [jackson-jaxrs-json-provider – 2.9.8](#)
- [jackson-module-jaxb-annotations – 2.9.8](#)

Apache License, Version 2.0, January 2004

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

- "Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.
- "Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.
- "You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.
- "Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.
- "Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.
- "Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).
- "Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.
- "Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."
- "Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. **Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - a. You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - b. You must cause any modified files to carry prominent notices stating that You changed the files; and
 - c. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - d. If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.
5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

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

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

- [Commons Codec – 1.11](#)
- [cordova-plugin-facebook4 – 4.2.1](#)
- [Cordova File Transfer Plugin – 1.7.1](#)
- [Google HTTP Client Library for Java – 1.29.0](#)
- [HttpComponents HttpClient – 4.5.7](#)
- [HttpCore – 4.4.11](#)
- [jackson-dataformat-yaml – 2.9.8](#)
- [Javapoet – 1.11.1](#)

- [swagger-jaxrs2 – 2.0.7](#)
- [swagger-models – 2.0.7](#)
- [ZXing – 3.3.3](#)

3.1.1 Commons Codec – 1.11

Copyright 2014 [Commons-Codec]

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

URL for License - <http://www.apache.org/licenses/LICENSE-2.0>

For licensing information, see **Apache License, Version 2.0 January 2004**

3.1.2 cordova-plugin-facebook4 – 4.2.1

Copyright (c) 2010 Nitobi Software Inc.

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

URL for License - <http://www.apache.org/licenses/LICENSE-2.0>

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

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

For licensing information, see **Apache License, Version 2.0 January 2004**

3.1.3 Cordova File Transfer Plugin – 1.7.1

<https://github.com/apache/cordova-plugin-file-transfer/blob/master/LICENSE>

For licensing information, see **Apache License, Version 2.0 January 2004**

3.1.4 Google HTTP Client Library for Java – 1.29.0

Main license Apache

– and some 4th party dependencies

jackson-core-asl 1.9.13

jackson-core 2.9.6

gson 2.1

guava-testlib 20.0

org.apache.httpcomponents:httpclient 4.5.5
google-http-client-android 1.25.0
google-http-client-protobuf 1.25.0
google-http-client-gson 1.25.0
google-http-client-xml 1.25.0
google-http-client-test 1.25.0
j2objc-annotations 1.1
google-http-client-assembly 1.25.0
google-http-client 1.25.0
google-http-client-appengine 1.25.0
commons-codec 1.6
google-http-client-jackson 1.25.0
google-http-client-jackson2 1.25.0
google-http-client-jdo 1.25.0
guava 24.1
jdo2-api 2.3-eb
datanucleus-core 3.2.2
datanucleus-api-jdo 3.2.1
datanucleus-rdbms 3.2.1

For licensing information, see **Apache License, Version 2.0 January 2004**

3.1.5 HttpComponents HttpClient – 4.5.7

TOP LEVEL COPYRIGHT NOTICE:

Apache HTTPComponents Client

Copyright 1999-2017 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

You may not use the identified files except in compliance with the Apache License, Version 2.0 (the "License.")

You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0>. A copy of the license is also reproduced below.

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

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

TOP LEVEL LICENSE TEXT:

For licensing information, see **Apache License, Version 2.0 January 2004**

=====Separator=====

FOURTH PARTY DEPENDENCY #1 Apache Commons Codec (commons-codec:commons-codec:1.11- <http://commons.apache.org/proper/commons-codec/>)

Apache Commons Codec

Copyright 2002-2017 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

`src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java`

contains test data from <http://aspell.net/test/orig/batch0.tab>.

Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

=====Separator=====

FOURTH PARTY DEPENDENCY #2 Apache Commons Logging (commons-logging:commons-logging:1.2 - <http://commons.apache.org/proper/commons-logging/>)

Apache Commons Logging

Copyright 2003-2014 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

=====Separator=====

FOURTH PARTY DEPENDENCY #3 Apache HttpCore (org.apache.httpcomponents:httpcore:4.4.9 - <http://hc.apache.org/httpcomponents-core-ga>)

Apache HttpComponents Core

Copyright 2005-2017 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (<http://www.apache.org/>).

(Apache License Version 2.0) - SEE FULL TEXT ABOVE

3.1.6 HttpCore – 4.4.11

Apache HttpComponents Core

Copyright 2005-2017 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (<http://www.apache.org/>).

TOP-LEVEL LICENSE TEXT:

For licensing information, see **Apache License, Version 2.0 January 2004**.

W3C® SOFTWARE NOTICE AND LICENSE

<http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231>

This work (and included software, documentation such as READMEs, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.
2. Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.
3. Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED ""AS IS,"" AND COPYRIGHT HOLDERS MAKE

NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED

TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT

THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY

PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission.

Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on December 31 2002.

This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of ""use"". Otherwise, this version is the same as the previous version and is written so

as to preserve the Free Software Foundation's assessment of GPL compatibility and OSI's certification under the Open Source Definition. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

Joseph Reagle

This license came from: <http://www.megginson.com/SAX/copying.html>

However please note future versions of SAX may be covered under <http://saxproject.org/?selected=pd>

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for XML), and release all of the SAX 2.0 source code, compiled code, and documentation contained in this distribution into the Public Domain.

SAX comes with NO WARRANTY or guarantee of fitness for any purpose.

David Megginson, david@megginson.com

2000-05-05

3.1.7 jackson-dataformat-yaml – 2.9.8

For licensing information, see **Apache License, Version 2.0 January 2004**.

4TH Party Dependency license: Apache 2.0

For licensing information, see **Apache License, Version 2.0 January 2004**.

3.1.8 Javapoet – 1.11.1

"Copyright 2015 Square, Inc.

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

Apache License, Version 2.0 January 2004.

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

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

For licensing information, see **Apache License, Version 2.0 January 2004**

3.1.9 swagger-jaxrs2 – 2.0.7

TOP LEVEL COPYRIGHT NOTICE:

Copyright 2016 SmartBear Software

Licensed under the Apache License, Version 2.0 (the "License");

You may not use the identified files except in compliance with the License.

You may obtain a copy of the License at [apache.org/licenses/LICENSE-2.0] (<http://www.apache.org/licenses/LICENSE-2.0>.)

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

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

TOP LEVEL LICENSE:

Apache License

For licensing information, see **Apache License, Version 2.0 January 2004**

4TH PARTY DEPENDENCIES:

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

FOURTH PARTY DEPENDENCY #1 logback-classic (EPL 1.0, LGPL 2.1) : Version 1.2.3

FOURTH PARTY DEPENDENCY #2 logback-core (EPL 1.0, LGPL 2.1) : Version 1.2.3

FOURTH PARTY DEPENDENCY #1 and 2 NOTICE TEXT:

Logback: the reliable, generic, fast and flexible logging framework. Copyright (C) 1999-2017, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under either the terms of the Eclipse Public License v1.0 as published by the Eclipse Foundation

or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1 as published by the Free Software Foundation.

FOURTH PARTY DEPENDENCY #1 and 2 LICENSE:

Eclipse Public License - v 1.0

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

1. Definitions

"Contribution" means:

- a. in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b. in the case of each subsequent Contributor:
 - i. changes to the Program, and
 - ii. additions to the Program;

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

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

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

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

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

2. Grant of Rights

- a. Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.
- b. Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.
- c. Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.
- d. Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. Requirements

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

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

- b. its license agreement:
 - i. effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
 - ii. effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
 - iii. states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
 - iv. states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- c. it must be made available under this Agreement; and
- d. a copy of this Agreement must be included with each copy of the Program.

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

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

4. Commercial Distribution

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

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

5. No Warranty

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for

determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. Disclaimer of Liability

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

7. General

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

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

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

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

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

-----separator-----

FOURTH PARTY DEPENDENCY #3 javassist(MPL 1.1, LGPL 2.1, or Apache 2.0) :
Version 3.22.0GA

Javassist, a Java-bytecode translator toolkit.

Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

The Original Code is Javassist.

The Initial Developer of the Original Code is Shigeru Chiba. Portions created by the Initial Developer are

Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Contributor(s): __Bill Burke, Jason T. Greene_____.

The contents of this software, Javassist, are triple licensed under the terms of Mozilla Public License version 1.1, GNU Lesser General Public License version 2.1 or later, or Apache License version 2.0. Oracle chooses the terms of Apache 2.0

License text of Apache 2.0 provided above.

-----separator-----

FOURTH PARTY DEPENDENCY #4 reflection(BSD License) Version 0.9.11

Copyright 2018 BSD

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

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

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

3.1.10 swagger-models – 2.0.7

Copyright 2016 SmartBear Software

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at [<http://www.apache.org/licenses/LICENSE-2.0>]

(<http://www.apache.org/licenses/LICENSE-2.0>.)

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

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

For licensing information, see **Apache License, Version 2.0 January 2004**.

3.1.11 ZXing – 3.3.3

This newer version (2.3) is also licensed under Apache 2.0:

```
/*  
 * Copyright 2011 ZXing authors  
 *  
 * Licensed under the Apache License, Version 2.0 (the "License");  
 * you may not use this file except in compliance with the License.  
 * You may obtain a copy of the License at  
 *  
 * http://www.apache.org/licenses/LICENSE-2.0  
 *  
 * Unless required by applicable law or agreed to in writing, software  
 * distributed under the License is distributed on an "AS IS" BASIS,  
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
 * See the License for the specific language governing permissions and  
 * limitations under the License.  
 */
```

Additionally, the NOTICE file contains the following:

NOTICES FOR BARCODE4J

Barcode4J

Copyright 2002-2010 Jeremias Märki

Copyright 2005-2006 Dietmar Bürkle

Portions of this software were contributed under section 5 of the Apache License. Contributors are listed under:

<http://barcode4j.sourceforge.net/contributors.html>

NOTICES FOR APACHE COMMONS FILEUPLOAD, IO, LANG

Copyright 2002-2010 The Apache Software Foundation

This product includes software developed by

The Apache Software Foundation (<http://www.apache.org/>).

3.2 A File Opener Plugin for Cordova – 2.2.0

The MIT License (MIT)

Copyright (c) 2013 pwlin - pwlin05@gmail.com

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

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

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

3.3 Cordova Plugin for Barcode Scanner – 8.0.1

The MIT License

Copyright (c) 2010 Matt Kane

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

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

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

3.4 cordova-plugin-otp-auto-verification – 1.0.2

The MIT License (MIT) Copyright (c) 2016 Sandeep Dillerao

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

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

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

3.5 Java Hamcrest 2.1

BSD License

Copyright (c) 2000-2015 www.hamcrest.org

All rights reserved.

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

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

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

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED

TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

3.6 JSON

Copyright (c) 2002 JSON.org

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

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

The Software shall be used for Good, not Evil.

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

3.7 JsonPath – 2.4.0

For licensing information, see **Apache License, Version 2.0 January 2004**.

Copyright 2017 Jayway

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

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

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

Below 4th party dependencies are optional (except slf4j-api, json-smart)

jackson-databind, 2.6.3, apache 2.0, no copyright info found.

gson 2.3.1, apache 2.0

Gson is released under the Apache 2.0 license.

Copyright 2008 Google Inc.

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

Apache License, Version 2.0 January 2004

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

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

json-smart, 2.3, apache 2.0

/*

* Copyright 2011 JSON-SMART authors

*

* 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

*

* **Apache License, Version 2.0 January 2004**

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

tapestry-json, 5.4.3, Apache 2.0

This product includes software developed by

The Apache Software Foundation (<http://www.apache.org/>).

jettison, 1.3.7, Apache 2.0

Copyright 2006 Envoi Solutions LLC

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

Apache License, Version 2.0 January 2004

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

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

json, 20140107, JSON license

Copyright (c) 2002 JSON.org

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

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

The Software shall be used for Good, not Evil.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE

SOFTWARE.

slf4j-api, 1.7.25, MIT license

Copyright (c) 2004-2017 QOS.ch

All rights reserved.

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

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

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

3.8 Jsoup - 1.11.3

"jsoup License

The jsoup code-base (include source and compiled packages) are distributed under the open source MIT license as described below.

The MIT License

Copyright © 2009 - 2017 Jonathan Hedley (jonathan@hedley.net)

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

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

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

3.9 Oracle JavaScript Extension Toolkit (JET) - 13.0.0

Oracle JET

You may not use the identified files except in compliance with the Universal Permissive License (UPL), Version 1.0 (the "License.")

You may obtain a copy of the License at

<https://opensource.org/licenses/UPL>. A copy of the license is also reproduced below.

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

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

Copyright (c) 2014, 2018 Oracle and/or its affiliates

The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to any person obtaining a copy of this software, associated documentation and/or data (collectively the "Software"), free of charge and under any and all copyright rights in the Software, and any and all patent rights owned or freely licensable by each licensor hereunder covering either (i) the unmodified Software as contributed to or provided by such licensor, or (ii) the Larger Works (as defined below), to deal in both

(a) the Software, and (b) any piece of software and/or hardware listed in the lrgwrks.txt file if one is included with the Software (each a "larger Work" to which the Software is contributed by such licensors), without restriction, including without limitation the rights to copy, create derivative works of, display, perform, and distribute the Software and make, use, sell, offer for sale, import, export, have made, and have sold the Software and the Larger Work(s), and to sublicense the foregoing rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at a minimum a reference to the UPL must be included in all copies or substantial portions of the Software.

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

THIRD-PARTY COMPONENT FILE (path in the installation)	LICENSE(see license text reproduced below)
js/libs/crossroads/ crossroads.js	MIT
js/libs/es6-promise/es6- promise.js	MIT
js/libs/hammer/ hammer-2.0.8.js	MIT
js/libs/history/history.iegte8.js	MIT
js/libs/js-signals/signals.js	MIT
js/libs/jquery/jquery-3.3.1.js	MIT

THIRD-PARTY COMPONENT FILE (path in the installation)	LICENSE(see license text reproduced below)
js/libs/jquery/jquery- ui-1.12.1.custom.js	MIT
js/libs/jquery/jqueryui- amd-1.12.1/core.js	MIT
js/libs/jquery/jqueryui- amd-1.12.1/draggable.js	MIT
js/libs/jquery/jqueryui- amd-1.12.1/mouse.js	MIT
js/libs/jquery/jqueryui- amd-1.12.1/position.js	MIT
js/libs/jquery/jqueryui- amd-1.12.1/sortable.js	MIT
js/libs/jquery/jqueryui- amd-1.12.1/widget.js	MIT
js/libs/knockout/ knockout-3.4.2.js	MIT
js/libs/knockout/knockout- mapping-latest.js	MIT
js/libs/oj/v5.1.0/min/ ojknockout.js (knockout-fast- foreach.js)	MIT
js/libs/oj/v5.1.0/min/ ojselectcombobox.js (Select2.js)	Apache 2.0
js/libs/oj/v5.1.0/min/ojtree.js (jsTree.js)	MIT
js/libs/oj/v5.1.0/ojL10n.js (requireJS i18n)	MIT
js/libs/proj4js/dist/proj4.js	Proj4js
js/libs/require/require.js	MIT
js/libs/require/text.js	MIT
js/libs/require-css/css.js (require-css)	MIT
js/libs/webcomponents/ custom-elements.min.js elements	custom-
scss/oj/v5.1.0/3rdparty/ normalize/normalize.scss	MIT

/*!

Knockout Fast Foreach v0.6.0 (2016-07-28T11:02:54.197Z)

By: Brian M Hunt (C) 2015 | License: MIT

*/

/**

* webcomponents/custom-elements - v1.0.8

*

* Copyright (c) 2015 The Polymer Authors. All rights reserved.

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

*

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

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer

* in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software

* without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,

* BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT

* SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN

* ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

/*

* proj4js - v2.4.4

* <http://proj4js.org/>

* Copyright (C) 2014 Mike Adair, Richard Greenwood, Didier Richard, Stephen Irons, Olivier Terral and Calvin Metcalf;

* Licensed under the Proj4js license

*/

/*

* require-css - v0.1.10

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

* Copyright (C) 2013 Guy Bedford;

* Licensed under the MIT license

```
*/  
  
/*! Hammer.JS - v2.0.4 - 2014-09-28  
* http://hammerjs.github.io/  
*  
* Copyright (c) 2014 Jorik Tangelder;  
* Licensed under the MIT license */  
  
/*  
* Foundation Responsive Library  
* http://foundation.zurb.com  
* Copyright 2014, ZURB  
* Free to use under the MIT license.  
* http://www.opensource.org/licenses/mit-license.php  
*/  
  
Normalize.scss  
  
Copyright (c) Nicolas Gallagher and Jonathan Neal  
/*  
  
RequireJS i18n 2.0.2 Copyright (c) 2010-2012, The Dojo Foundation All Rights Reserved.  
Available via the MIT or new BSD license.  
see: http://github.com/requirejs/i18n for details  
*/  
  
/* This component is based on original code from:  
jsTree 1.0-rc3 http://jstree.com/  
"Copyright (c) 2010 Ivan Bozhanov (vakata.com)  
Licensed same as jquery - under the terms of either the MIT License or  
the GPL Version 2 License  
http://www.opensource.org/licenses/mit-license.php  
http://www.gnu.org/licenses/gpl.html  
*/  
  
/**  
  
* @preserve Copyright 2012 Igor Vaynberg  
*  
* This software is licensed under the Apache License, Version 2.0 (the "Apache License") or  
the GNU  
* General Public License version 2 (the "GPL License"). You may choose either license to  
govern your
```

```
* use of this software only upon the condition that you accept all of the terms of either the
Apache
* License or the GPL License.
*
* You may obtain a copy of the Apache License and the GPL License at:
*
* Apache License, Version 2.0 January 2004
* http://www.gnu.org/licenses/gpl-2.0.html
*
* Unless required by applicable law or agreed to in writing, software distributed under the
* Apache License or the GPL License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the Apache License and the
GPL License for
* the specific language governing permissions and limitations under the Apache License and
the GPL License.
*/
/** @license
* crossroads <http://millermedeiros.github.com/crossroads.js/>
* Author: Miller Medeiros | MIT License
* v0.12.0 (2013/01/21 13:47)
*/
ES6-Promise v1.0.0
Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and contributors
/*!
* History API JavaScript Library v4.1.0
*
* Support: IE8+, FF3+, Opera 9+, Safari, Chrome and other
*
* Copyright 2011-2013, Dmitrii Pakhtinov ( spb.piksel@gmail.com )
*
* http://spb-piksel.ru/
*
* Dual licensed under the MIT and GPL licenses:
* http://www.opensource.org/licenses/mit-license.php
```

```
* http://www.gnu.org/licenses/gpl.html
*
* Update: 2014-03-24 13:14
*/
/*! jQuery UI - v1.11.4 - 2015-03-18
* http://jqueryui.com
* Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js
* Copyright 2015 jQuery Foundation and other contributors; Licensed MIT */
/*!
* jQuery JavaScript Library v2.2.3
* http://jqueryui.com
*
* Includes Sizzle.js
* http://sizzlejs.com/
*
* Copyright 2005, 2014 jQuery Foundation, Inc. and other contributors
* Released under the MIT license
* http://jquery.org/license
*
* Date: 2014-12-18T15:11Z
*/
/** @license
* JS Signals <http://millermedeiros.github.com/js-signals/>
* Released under the MIT license
* Author: Miller Medeiros
* Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)
*/
/**
* @license RequireJS text 2.0.12 Copyright (c) 2010-2014, The Dojo Foundation All Rights
Reserved.
* Available via the MIT or new BSD license.
* see: http://github.com/requirejs/text for details
*/
/*
```

RequireJS 2.1.16 Copyright (c) 2010-2015, The Dojo Foundation All Rights Reserved.

Available via the MIT or new BSD license.

see: <http://github.com/jrburke/requirejs> for details

*/

/*!

* Knockout JavaScript library v3.4.2

* (c) Steven Sanderson - <http://knockoutjs.com/>

* License: MIT (<http://www.opensource.org/licenses/mit-license.php>)

*/

-----Apache-2.0-----

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

You may not use the identified files except in compliance with the Apache License, Version 2.0 (the "License.")

You may obtain a copy of the License at

Apache License, Version 2.0 January 2004.

A copy of the license is also reproduced below.

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

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

For licensing information, see **Apache License, Version 2.0 January 2004.**

3.10 patternLock – 2.0.2

The MIT License (MIT)

Copyright (c) 2016>

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

3.11 CK Editor – 4.11.x

The text editor for Internet - <https://ckeditor.com/>

Copyright (c) 2003-2018, CKSource - Frederico Knabben. All rights reserved.

Licensed under the terms of any of the following licenses at your choice:

- GNU General Public License Version 2 or later (the "GPL")

<http://www.gnu.org/licenses/gpl.html>

(See Appendix A)

- GNU Lesser General Public License Version 2.1 or later (the "LGPL")

<http://www.gnu.org/licenses/lgpl.html>

- Mozilla Public License Version 1.1 or later (the "MPL")

<http://www.mozilla.org/MPL/MPL-1.1.html>

You are not required to, but if you want to explicitly declare the license you have chosen to be bound to when using, reproducing, modifying and distributing this software, just include a text file titled "legal.txt" in your version of this software, indicating your license choice. In any case, your choice will not restrict any recipient of your version of this software to use, reproduce, modify and distribute this software under any of the above licenses.

Sources of Intellectual Property Included in CKEditor

Where not otherwise indicated, all CKEditor content is authored by CKSource engineers and consists of CKSource-owned intellectual property. In some specific instances, CKEditor will incorporate work done by developers outside of CKSource with their express permission.

The following libraries are included in CKEditor under the MIT license (see Appendix D):

* CKSource Samples Framework (included in the samples) - Copyright (c) 2014-2018, CKSource - Frederico Knabben.

* PicoModal (included in `samples/js/sf.js`) - Copyright (c) 2012 James Frasca.

* CodeMirror (included in the samples) - Copyright (C) 2014 by Marijn Haverbeke <marijnh@gmail.com> and others.

Parts of code taken from the following libraries are included in CKEditor under the MIT license (see Appendix D):

* jQuery (inspired the domReady function, ckeditor_base.js) - Copyright (c) 2011 John Resig, <http://jquery.com/>

The following libraries are included in CKEditor under the SIL Open Font License, Version 1.1 (see Appendix E):

* Font Awesome (included in the toolbar configurator) - Copyright (C) 2012 by Dave Gandy.

The following libraries are included in CKEditor under the BSD-3 License (see Appendix F):

* highlight.js (included in the `codesnippet` plugin) - Copyright (c) 2006, Ivan Sagalaev.

* YUI Library (included in the `uicolor` plugin) - Copyright (c) 2009, Yahoo! Inc.

Trademarks

CKEditor is a trademark of CKSource - Frederico Knabben. All other brand and product names are trademarks, registered trademarks or service marks of their respective holders.

Appendix A: The GPL License

...

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

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

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

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

We protect your rights with two steps:

(1) copyright the software, and

(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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

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

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

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

1. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you". Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.
2. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.
You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.
3. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
 - a. You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

- b. You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c. If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

- 4. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
 - a. Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
 - b. Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
 - c. Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

5. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
6. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
7. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
8. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

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

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

9. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
10. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

11. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
NO WARRANTY
12. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
13. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

3.12 cordova-plugin-firebase – 2.0.5

License

MIT License

Copyright (c) 2016 Robert Arnesson AB

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

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

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

3.13 cordova-plugin-wkwebview-file-xhr – 2.1.1

Copyright (c) 2018 Oracle and/or its affiliates The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to any person obtaining a copy of this software, associated documentation and/or data (collectively the "Software"), free of charge and under any and all copyright rights in the Software, and any and all patent rights owned or freely licensable by each licensor hereunder covering either (i) the unmodified Software as contributed to or provided by such licensor, or (ii) the Larger Works (as defined below), to deal in both

1. the Software, and
2. any piece of software and/or hardware listed in the lgwrks.txt file if one is included with the Software (each a "Larger Work" to which the Software is contributed by such licensors),

without restriction, including without limitation the rights to copy, create derivative works of, display, perform, and distribute the Software and make, use, sell, offer for sale, import, export, have made, and have sold the Software and the Larger Work(s), and to sublicense the foregoing rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at a minimum a reference to the UPL must be included in all copies or substantial portions of the Software.

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

No forth party Dependency.

3.14 REST-assured – 3.3.0

Apache License

Version 2.0, January 2004

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

1. Definitions.

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

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

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this

definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

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

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

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

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

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

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

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

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

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

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

2. **Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent

infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - a. You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - b. You must cause any modified files to carry prominent notices stating that You changed the files; and
 - c. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - d. If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.
5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [2018] [Johan Haleby]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

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

4th Party dependencies are either compiling or testing.

Compiling dependencies:

-
- com.fasterxml.jackson.core » jackson-databind (optional) V 2.9.8 (Apache 2.0)
 - com.google.code.gson » gson (optional) V 2.6.2 (Apache 2.0)
 - com.googlecode.json-simple » json-simple (optional) V 1.1.1 (Apache 2.0)
 - io.rest-assured » json-path V 3.3.0 (Apache 2.0)
 - io.rest-assured » xml-path V 3.3.0 (Apache 2.0)
 - org.apache.httpcomponents » httpclient V 4.5.3 (Apache 2.0)
 - org.apache.httpcomponents » httpmime V 4.5.3 (Apache 2.0)

- org.ccil.cowan.tagsoup » tagsoup V 1.2.1 (Apache 2.0)
- org.codehaus.groovy » groovy V 2.4.15 (Apache 2.0)
- org.codehaus.groovy » groovy-xml V 2.4.15 (Apache 2.0)
- org.codehaus.jackson » jackson-core-asl (optional) V 1.9.11 (Apache 2.0)
- org.codehaus.jackson » jackson-mapper-asl (optional) V 1.9.11 (Apache 2.0)

Test Dependencies:

-
- commons-io » commons-io V 2.4 (Apache 2.0)
 - org.assertj » assertj-core V 1.7.0 (Apache 2.0)

Apache License

Version 2.0, January 2004

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is

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

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

2. **Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. **Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. **Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - a. You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - b. You must cause any modified files to carry prominent notices stating that You changed the files; and
 - c. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
 - d. If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [2018] [Johan Haleby]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

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

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

Compiling dependencies:

- com.github.scribejava » scribejava-apis (optional) V 2.5.3 (MIT) Copyright (c) 2010 Pablo Fernandez

Test Dependencies:

- org.mockito » mockito-core V 1.10.19 (MIT) Copyright (c) 2007 Mockito contributors

The MIT License

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

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

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

Compiling dependencies:

- org.hamcrest » hamcrest-core V 1.3 (BSD)
- org.hamcrest » hamcrest-library V 1.3 (BSD)

BSD License

Copyright (c) 2000-2015 www.hamcrest.org All rights reserved.

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

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

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

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

Test Dependencies:

- junit » junit V 4.12 (EPL)

Eclipse Public License - v 1.0

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

1. Definitions.

"Contribution" means:

- a. in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b. in the case of each subsequent Contributor:
 - i. changes to the Program, and
 - ii. additions to the Program;

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

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

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

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

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

2. Grant Of Rights

- a. Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.
- b. Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.
- c. Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.
- d. Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. Requirements

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

- a. it complies with the terms and conditions of this Agreement; and
- b. its license agreement:
 - i. effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
 - ii. effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
 - iii. states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
 - iv. states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

- i. it must be made available under this Agreement; and

- ii. a copy of this Agreement must be included with each copy of the Program.

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

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

4. Commercial Distribution

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

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

5. No Warranty

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

6. Disclaimer Of Liability

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

7. General

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

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

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

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

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

4

List of Topics

This user manual is organized as follows:

Table 4-1 List of Topics

Topics	Description
Preface	This topic provides information on the introduction, intended audience, list of topics, and acronyms covered in this guide.
Overview	This topic provides information about the overview of the licensing details of Oracle Banking Digital Experience and its associated third-party products.
Oracle Banking APIs Licensing	This topic provides information about the licensing information for Oracle Banking Digital Experience.
Third-Party Licenses	This topic provides information about the licensing and copyright information for third-party products included with the Oracle Banking Digital Experience licensed software.

Index

A

A File Opener Plugin for Cordova – 2.2.0, [3-16](#)
Apache License, Version 2.0, [3-1](#)

C

CK Editor – 4.11.x, [3-29](#)
Commons Codec – 1.11, [3-5](#)
Cordova File Transfer Plugin – 1.7.1, [3-5](#)
Cordova Plugin for Barcode Scanner – 8.0.1, [3-16](#)
cordova-plugin-facebook4 – 4.2.1, [3-5](#)
cordova-plugin-firebase – 2.0.5, [3-34](#)
cordova-plugin-otp-auto-verification – 1.0.2, [3-17](#)
cordova-plugin-wkwebview-file-xhr – 2.1.1, [3-35](#)

G

Google HTTP Client Library for Java – 1.29.0, [3-5](#)

H

HttpComponents HttpClient – 4.5.7, [3-6](#)
HttpCore – 4.4.11, [3-7](#)

J

jackson-dataformat-yaml – 2.9.8, [3-9](#)
Java Hamcrest 2.1, [3-17](#)
Javapoet – 1.11.1, [3-9](#)
JSON, [3-18](#)
JsonPath – 2.4.0, [3-18](#)
Jsoup - 1.11.3, [3-21](#)

O

Oracle Banking APIs Customer Financial Insights, [2-4](#)
Oracle Banking APIs Development Kit, [2-2](#)

Oracle Banking APIs for Bulk Transactions, [2-12](#)
Oracle Banking APIs for Corporate Banking, [2-8](#)
Oracle Banking APIs for Origination of Credit Cards, [2-6](#)
Oracle Banking APIs for Origination of Liability Accounts, [2-6](#)
Oracle Banking APIs for Origination of Loans and Mortgages, [2-7](#)
Oracle Banking APIs for Retail Banking, [2-3](#)
Oracle Banking APIs for Trade Finance, [2-14](#)
Oracle Banking APIs Infrastructure, [2-1](#)
Oracle Banking APIs Licensing, [1-1](#), [2-1](#)
Oracle Banking APIs Origination, [2-5](#)
Oracle Banking APIs Small & Medium Business Servicing, [2-4](#)
Oracle JavaScript Extension Toolkit (JET) - 13.0.0, [3-21](#)
Overview, [1-1](#)

P

patternLock – 2.0.2, [3-28](#)

R

REST-assured – 3.3.0, [3-35](#)

S

swagger-jaxrs2 – 2.0.7, [3-10](#)
swagger-models – 2.0.7, [3-14](#)

T

Third-Party Licenses, [1-1](#), [3-1](#)

Z

ZXing – 3.3.3, [3-15](#)