

# Intel Developer Portal

Administrator's Guide

Version 1.0

January 2016

**BETA DRAFT**



**Part Number 333551-001US**

---

No license (express or implied, by estoppel or otherwise) to any intellectual property rights is granted by this document.

This document contains information on products, services, and/or processes in development. All information provided here is subject to change without notice. Contact your Intel representative to obtain the latest forecast, schedule, specifications, and roadmaps.

The products and services described may contain defects or errors known as errata, which may cause deviations from published specifications. Current characterized errata are available on request.

You may not use or facilitate the use of this document in connection with any infringement or other legal analysis concerning Intel products described herein. You agree to grant Intel a nonexclusive, royalty-free license to any patent claim thereafter drafted that includes subject matter disclosed herein.

Forecasts: Any forecasts of requirements for goods and services are provided for discussion purposes only. Intel will have no liability to make any purchase pursuant to forecasts. Any cost or expense you incur to respond to requests for information or in reliance on any forecast will be at your own risk and expense.

Business Forecast: Statements in this document that refer to Intel's plans and expectations for the quarter, the year, and the future, are forward-looking statements that involve a number of risks and uncertainties. A detailed discussion of the factors that could affect Intel's results and plans is included in Intel's SEC filings, including the annual report on Form 10-K.

Copies of documents that have an order number and are referenced in this document may be obtained by calling 1-800-548-4725 or by visiting [www.intel.com/design/literature.htm](http://www.intel.com/design/literature.htm).

Intel and the Intel logo are trademarks of Intel Corporation in the United States and other countries.

\* Other names and brands may be claimed as the property of others.

Copyright © January 2016 Intel Corporation. All rights reserved.

---

---

# Contents

## Chapter 1: Introducing Intel Developer Portal

Understanding the Intel Developer Portal .....	2
Working with the Intel Developer Portal.....	4
Additional Information .....	5

## Chapter 2: Using Intel Developer Portal

Getting a Developer Portal Account .....	8
Adding a New Mobile Application .....	10
Generating a Mobile Application's Public Token .....	12
Managing Developers and Users .....	13
Using OAuth .....	15
Storing BLOB Data .....	16
Storing Temporary Files .....	19
Searching Device Profiles.....	20
Storing JSON Documents .....	21
Searching Time Series Data Points .....	22

## Chapter 3: Third-Party License Information

Amazon License .....	23
Apache License .....	25
BSD License .....	28
Dojo Foundation License .....	28
Eclipse Public License .....	29
GNU General Public License .....	32
HSQL License .....	37
JSON License .....	38
MIT License .....	38
Oracle License .....	39



## CHAPTER

# 1

# Introducing Intel Developer Portal

Platform for Curie (Wearable Platform) Developer Portal. The web site is an integral part of the Intel Wearable Technology architecture, allowing for mobile application developers to track use of their mobile applications as well as user data.

The chapter contains the following sections:

- [Understanding the Intel Developer Portal](#)
- [Working with the Intel Developer Portal](#)
- [Additional Information](#)

## 1.1 Understanding the Intel Developer Portal

The Intel Developer Portal (Developer Portal) is a web site that provides access to information, data and asset storage used by mobile applications developed for the Intel® Curie™ Module (Curie Module). The main purposes of this portal are to:

- Register mobile applications as clients
- Store user data and analytics
- Update Curie Module firmware
- Store JSON documents

The developer provides an email address and password to create a portal account for access to Cloud Services and storage. The Developer Portal provides administrative pages for companion devices, user profiles, file storage and software updates. The Developer Portal organizes its management functionality as follows.

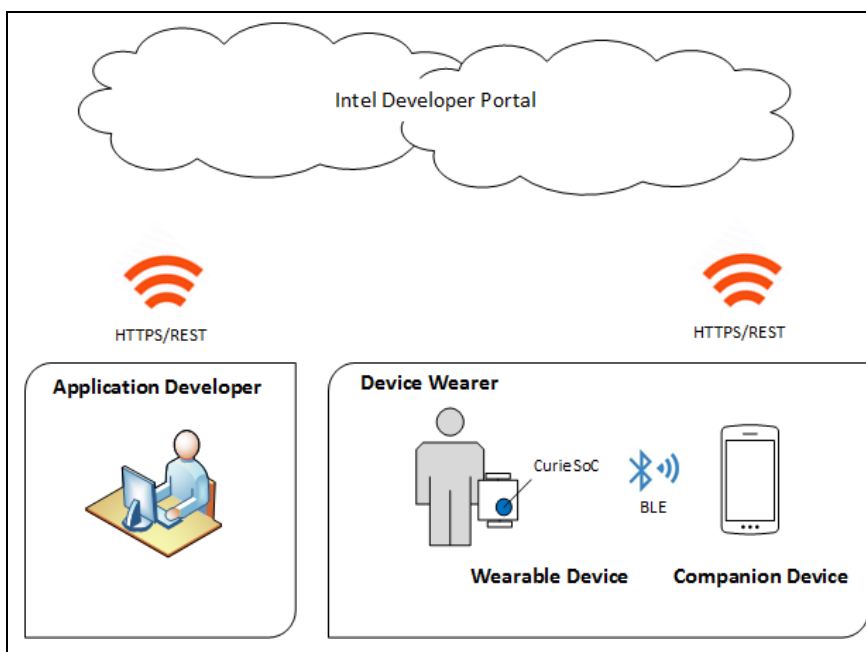
- The Home/Application Info page is where a developer registers an application. The Client ID is the identifier by which the application will be recognized. The Public Token is a long, generated string used to authenticate the application. Both must be incorporated into the application code. See [Getting a Developer Portal Account](#) on page 8 and [Generating a Mobile Application's Public Token](#) on page 12 for details.
- The User Management page is for searching and deleting user profiles. Profiles can be defined as application developers or users who have downloaded the application from the Android or iPhone store. When the downloader logs into the application as a new user, an account is created. See [Managing Developers and Users](#) on page 13 for details.
- The OAuth page is where the authentication option used to log in to the registered application is selected. UAA is enabled by default but Google or

Facebook authentication can be selected as well. See [Using OAuth](#) on page 15 for details.

- The BLOB Storage page is where the developer can upload Binary Large Object (BLOB) collections of firmware, software updates, voice packs, map data and other general purpose application data. [Storing BLOB Data](#) on page 16 on page 20 for details.
- The Temp Storage page is not associated with a user. It temporarily stores small pieces of data that might be needed by the application. Housekeeping and deleting this data is done by the developer. [Storing Temporary Files](#) on page 19 for details.
- The Device Profile page allows for searching user devices that have been registered by the application. These can be companion devices such as a smart phone or the Curie device itself. A hardware number, firmware version and other information can be stored by the application in JSON format. [Searching Device Profiles](#) on page 20 for details.
- The Document Storage page is where JSON objects can be uploaded. There is a 300 KB maximum document size. This screen will be used more readily by technical support rather than developers. [Storing JSON Documents](#) on page 21 for details.
- The Time Series page offers search functionality for Time Series definitions. The Time Series search allows a user to enter a period of time (between start and end) to display time series data generated by the application. [Searching Time Series Data Points](#) on page 22 for details.

## 1.2 Working with the Intel Developer Portal

The Developer Portal is an integral part of the process when developing an application for use with the Intel Software Platform for Curie. A new application must be registered as a client using the Developer Portal. Additionally, users who download the application to a companion device (usually a smart phone) will be registered when they first log in to the downloaded application. The following image illustrates how the disparate pieces work together.



Access to the Intel Developer Portal is from the Intel Curie Module Beta Site located at <http://iqsoftwarekit.intel.com>. For details, see [Getting a Developer Portal Account](#) on page 8.



## 1.3 Additional Information

The Intel Software Platform for Curie Developer Portal Administrator's Guide (this book) is one of several books documenting the process of developing software for wearable technology.

The following books are part of this release and contain more details.

- *Intel Software Platform for Curie on iOS Developer's Guide*
- *Intel Software Platform for Curie on Android Developer's Guide*
- *Intel Software Platform for Curie Platform API Reference for iOS*
- *Intel Software Platform for Curie Platform API Reference for Android*
- *Intel Software Platform for Curie Cloud Services API Reference for iOS*
- *Intel Software Platform for Curie Cloud Services API Reference for Android*



## CHAPTER

# 2

## Using Intel Developer Portal

This chapter provides details about the Developer Portal and the procedures a developer follows to register a new mobile application and manage the appropriate data.

The chapter contains the following sections:

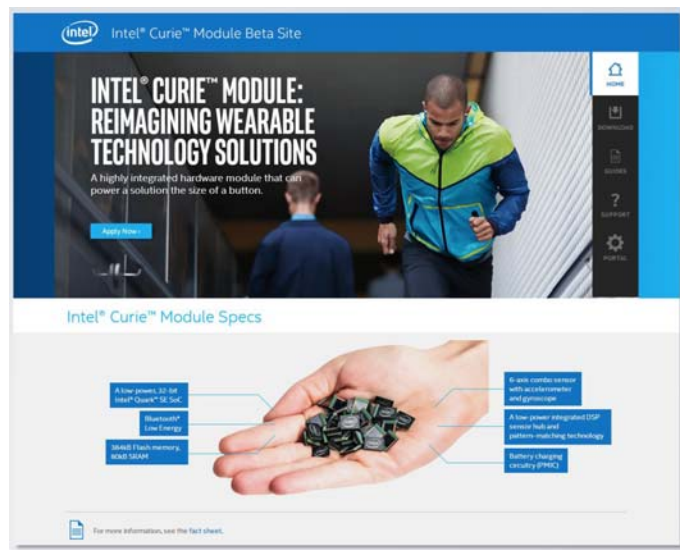
- [Getting a Developer Portal Account](#)
- [Adding a New Mobile Application](#)
- [Generating a Mobile Application's Public Token](#)
- [Managing Developers and Users](#)
- [Using OAuth](#)
- [Storing BLOB Data](#)
- [Storing Temporary Files](#)
- [Searching Device Profiles](#)
- [Searching Time Series Data Points](#)

## 2.1 Getting a Developer Portal Account

Intel Software Platform for Curie v2 Beta is a pre-release product being distributed to select Intel partners (OEMs) under the Intel Prerelease License Agreement and Software Evaluation Agreement. OEMs wishing to partner with Intel on developing wearable solutions should contact their regional Intel account managers.

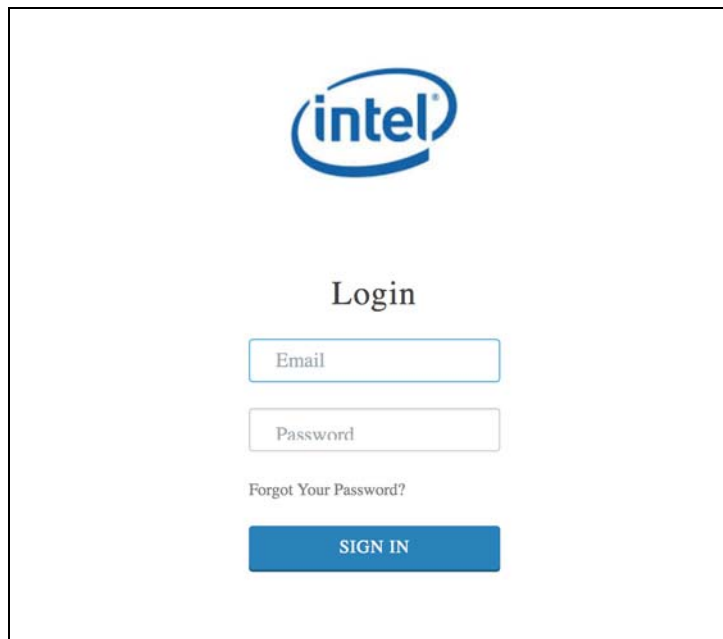
Upon signing required legal and non-disclosures agreements a Developer Portal account will be created by Intel for a given OEM developer. Upon logging into the Developer Portal for the first time, the developer will be allowed to change the default password. Accounts created on the Developer Portal are individual accounts. Multiple developers from the same organization will need to apply for separate accounts. Use the following procedure to access a developer account.

**Step 1.** Access the Intel Curie Module Beta Site landing page at <http://iqsoftwarekit.intel.com>.

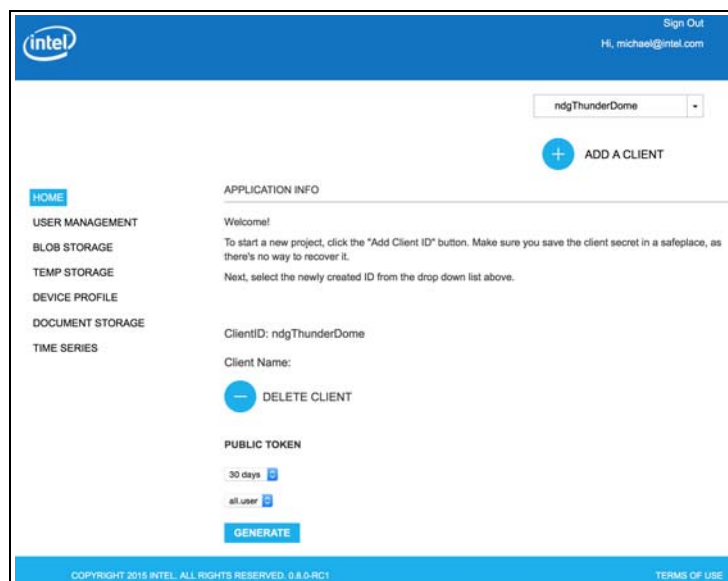


**Step 2.** Click Portal to access the Developer Portal Sign In page.

**Step 3.** Click Sign In on the Developer Portal Sign In page to access the Login page.

The image shows the Intel Developer Portal Login page. At the top is the Intel logo. Below it is the word "Login". There are two input fields: "Email" and "Password". Below the "Password" field is a link that says "Forgot Your Password?". At the bottom is a blue button labeled "SIGN IN".

**Step 4.** Enter the email address and password associated with the developer account and click Sign In. The Developer Portal Home page is displayed.

The image shows the Intel Developer Portal Home page. At the top is a blue header with the Intel logo on the left and "Sign Out" and "Hi, michael@intel.com" on the right. Below the header is a navigation menu on the left with links: HOME, USER MANAGEMENT, BLOB STORAGE, TEMP STORAGE, DEVICE PROFILE, DOCUMENT STORAGE, and TIME SERIES. The main content area is titled "APPLICATION INFO" and contains a "Welcome!" message, instructions on how to start a new project, and a list of application details: ClientID: ndgThunderDome, Client Name: [redacted], and a "DELETE CLIENT" button. There is also a "PUBLIC TOKEN" section with a "GENERATE" button. At the bottom is a blue footer with "COPYRIGHT 2015 INTEL. ALL RIGHTS RESERVED. 0.8.0-RC1" and "TERMS OF USE".

Any of the developer's registered applications can be selected by clicking the drop down list on the top right of the Home page. A User ID will be

automatically generated for the developer when the account is added. The value of this identifier is displayed on the User Management page.

## 2.2 Adding a New Mobile Application

When a new mobile application has been developed for use with the Curie Module, it must be registered as a client using the Developer Portal. When the application is added, it is assigned a Client ID and a Client Secret. The Client Secret must be integrated into the `AndroidManifest.xml` file of an Android application, or the `info.plist` file of an iOS application. The `AndroidManifest.xml` configuration will likely look like this:

```
<meta-data android:name="deployment-type" android:value="sandbox" />
<meta-data android:name="domain-name" android:value="iqsoftwarekit.intel.com" />
<meta-data android:name="client-id" android:value="your-clientID" />
<meta-data android:name="client-secret" android:value="your-clientSecret" />
<meta-data android:name="client-public-token" android:value="generated token" />
```

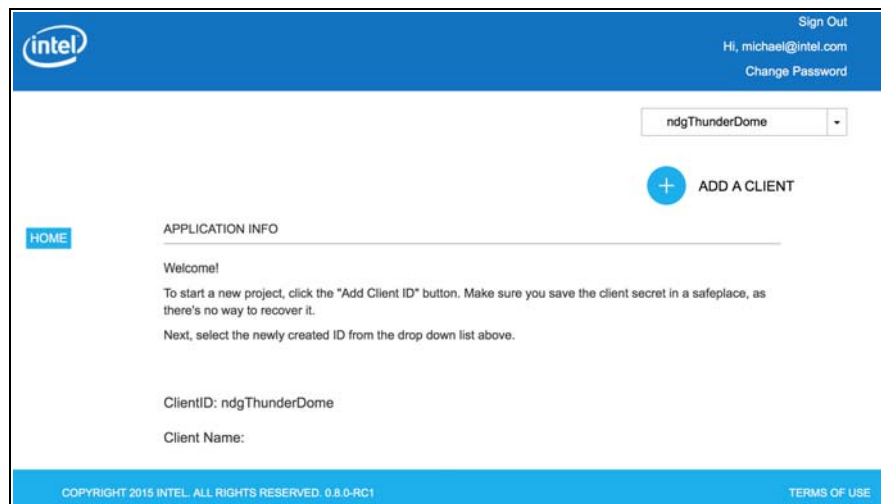
For iOS add the following keys as String types to the `info.plist` file.

client-id	▲	String	your-ClientID
client-public-token	▼	String	<generated token>
client-secret	▲	String	your-clientSecret
deployment-type	▼	String	sandbox
domain-name	▲	String	iqsoftwarekit.intel.com

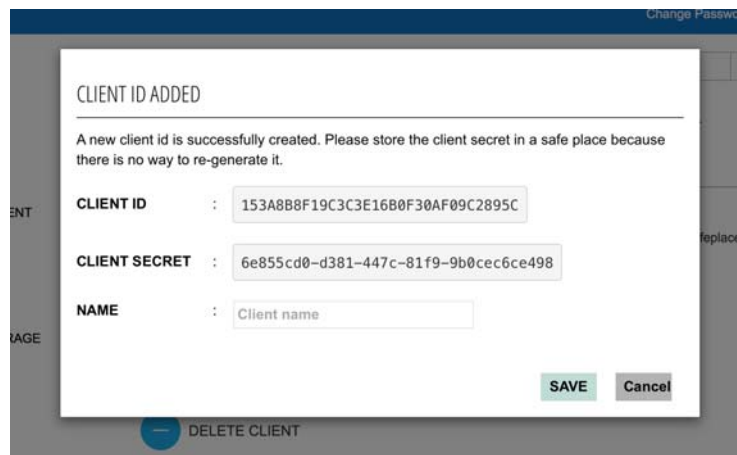
For information about the generated token, see [For more information see "Generating a Mobile Application's Public Token" on page 12.](#)

A developer can register a maximum of ten mobile applications. The following procedure assumes you have successfully logged into the Developer Portal (as

documented in “2.2 Logging into a Developer Portal Account”) and the Home page is displayed.



**Step 1.** Click Add A Client to generate a new Client ID.  
The Client ID Added page is displayed.



**Step 2.** Copy the Client ID and Client Secret to a text file.  
There is no way to regenerate an assigned Client Secret so be sure to copy and paste the value before clicking Save. Both Client ID and Client Secret will be used in the `AndroidManifest.xml` and `info.plist` files.

**Step 3.** Enter a name for the client (for example, Wearable App) and click Save.

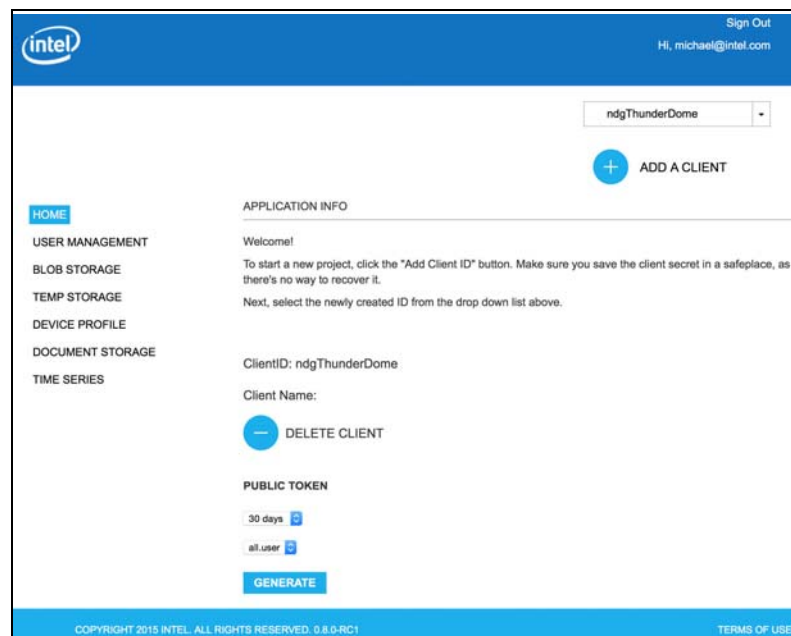
The Client ID of the new application will now be an option in the drop down list of registered

applications on the top right of the Home page. When selected, its Client ID and Client Name are displayed on the Home page. At this point, you can manage the application resources by clicking any of the links in the left side bar. This includes links for BLOB storage, user management and device profiles. To delete the client application, click Delete Client.

You must also generate a Public Token to authenticate the application. For details, see [Generating a Mobile Application's Public Token](#) on page 12

## 2.3 Generating a Mobile Application's Public Token

Once a developer has logged into the portal, all applications registered to that email address are accessible from the drop down list at the top right of the Home page. When the Client ID assigned to an application is selected from the drop down, the Client ID and Client Name are displayed on the Home Page.





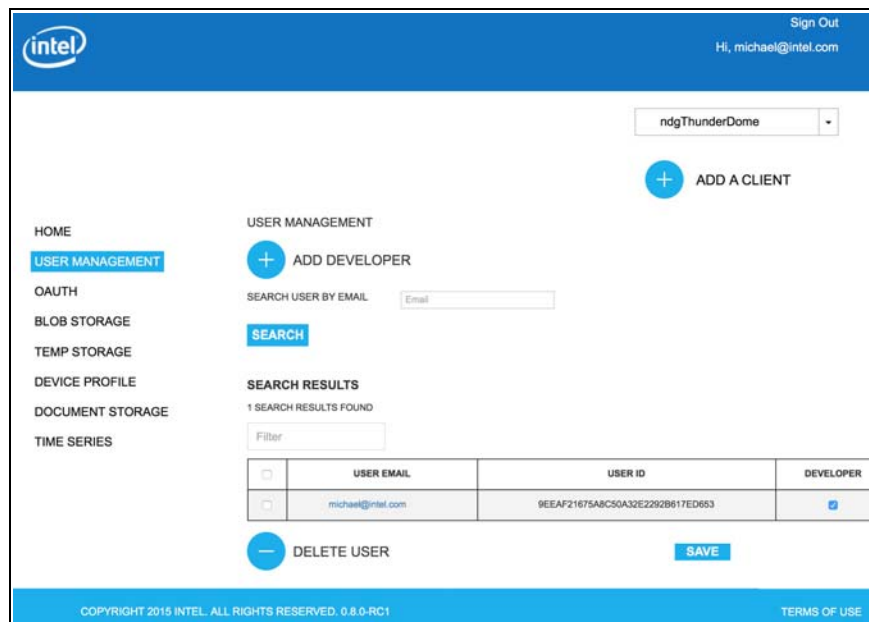
This Home Page is also where you generate a Public Token for the registered (and displayed) application. The Public Token is a long string used to authenticate the application for access to the Cloud Services public storage. The public token must be integrated into the `AndroidManifest.xml` file of an Android application, or the `info.plist` file of an iOS application as are the Client ID and Client Secret. See [Adding a New Mobile Application](#) on page 10 for an example `AndroidManifest.xml` file.

To generate the Public Token, select the length of time for which the token will be valid and click Generate. The token can then be copied from the value field and incorporated into the application's code. Tokens can be generated for periods of one day, 30 days, one year or ten years. For access to other storage (such as time series data), a user token is needed. A user email and password is exchanged for a user token when the user logs in from a companion device (smart phone).

## 2.4 Managing Developers and Users

The User Management page lists users assigned as developers of the application (as documented in “2.1 Getting a Developer Portal Account” on page 10) as well as

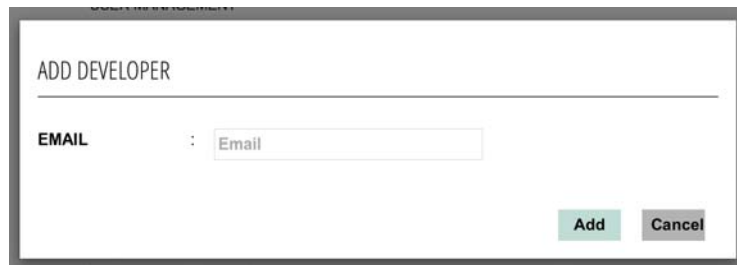
users who have downloaded the application and registered it with an email address.



When a user downloads a companion device application from the Android or iPhone store and logs in for the first time, an account is created and displayed in the Developer Portal with the profile data stored by the Cloud Services. The user is required to register the downloaded application with an email address so Cloud Services can push user data and analytics to the companion device by way of the mobile application where it can be viewed by the user.

The registered developer of the application can add other developers to the User Management page by clicking Add Developer, entering an email address in the text box and clicking Add. (It should be noted that the developer being added must already have a registered Developer Portal

account. Adding an email address that is not yet registered with the Developer Portal will throw an undefined error.)

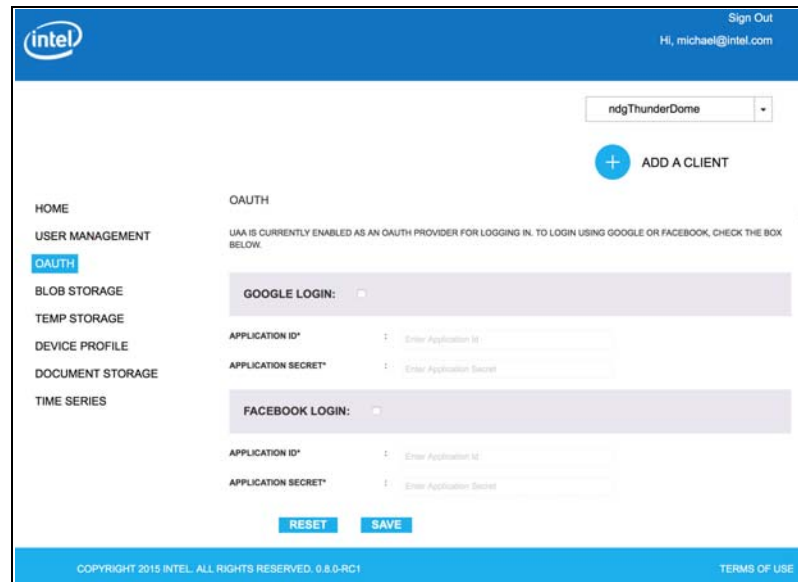


Any developer can search through the list of users to see who has downloaded and registered the application on their device. Any developer can also delete user profiles by selecting the check box and clicking Delete User.

## 2.5 Using OAuth

The OAuth page is where the authentication option to be used by the user to log into the Cloud (via the application) is selected. UAA is enabled by default but Google or Facebook authentication can be selected as well. For details on authentication options, see the appropriate Developer's

Guide or API Reference listed in “1.3 More Information on Intel Software Platform for Curie” on page 8.

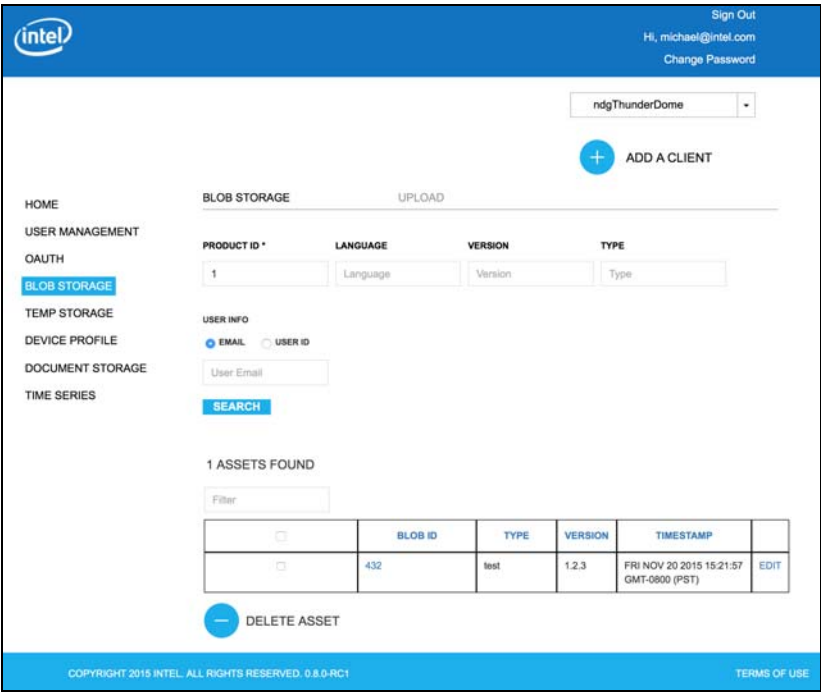


The screenshot shows the Intel Developer Portal interface. At the top, there's a blue header with the Intel logo on the left and 'Sign Out' and 'Hi, michael@intel.com' on the right. Below the header, there's a dropdown menu showing 'ndgThunderDome' and a blue circular button with a plus sign and the text 'ADD A CLIENT'. On the left side, there's a navigation menu with links: HOME, USER MANAGEMENT, OAUTH (highlighted in blue), BLOB STORAGE, TEMP STORAGE, DEVICE PROFILE, DOCUMENT STORAGE, and TIME SERIES. The main content area is titled 'OAUTH' and contains a message: 'UAA IS CURRENTLY ENABLED AS AN OAUTH PROVIDER FOR LOGGING IN. TO LOGIN USING GOOGLE OR FACEBOOK, CHECK THE BOX BELOW.' There are two sections: 'GOOGLE LOGIN:' and 'FACEBOOK LOGIN:'. Each section has a checkbox and two input fields labeled 'APPLICATION ID\*' and 'APPLICATION SECRET\*'. At the bottom of the form are 'RESET' and 'SAVE' buttons. The footer contains 'COPYRIGHT 2015 INTEL. ALL RIGHTS RESERVED. 0.8.0-RC1' and a link to 'TERMS OF USE'.

## 2.6 Storing BLOB Data

The BLOB Storage page is where the developer can upload Binary Large Object (BLOB) collections of firmware, software updates, voice packs, map data and other general purpose

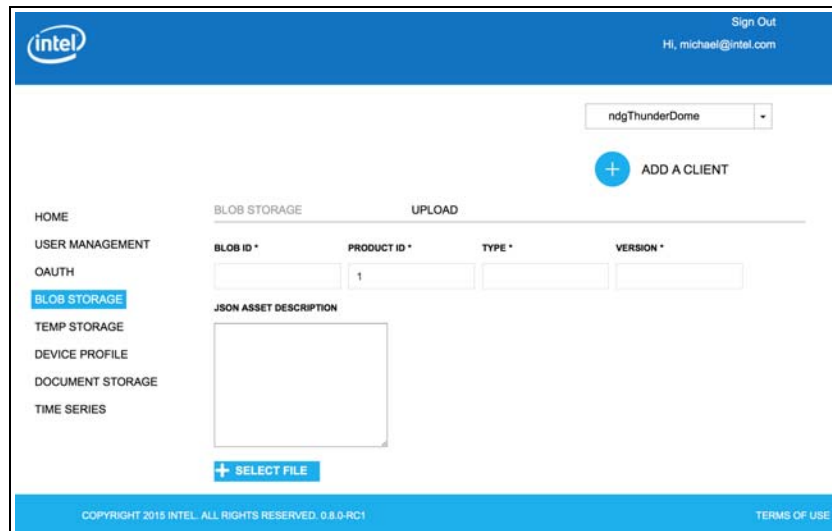
application data. BLOB data can be searched by Product ID, Language, Version or Type.



A user can upload files that the developer has deemed appropriate for the application. Files that a user has uploaded to public storage are accessible from this BLOB storage page. An email address and User ID can be used to find files mapped to a specific user.

Firmware updates for the Curie Module are also delivered using BLOB storage. To push firmware updates to the Curie Module, the developer goes to the Intel Firmware Upload page, downloads the appropriate update and then uploads

it to this BLOB storage page - associating the BLOB with an application ID.

The screenshot shows the Intel Developer Portal interface. At the top, there's a blue header with the Intel logo on the left and 'Sign Out' and 'Hi, michael@intel.com' on the right. Below the header, there's a navigation bar with a dropdown menu showing 'ndgThunderDome' and a '+ ADD A CLIENT' button. The main content area is divided into two sections: 'BLOB STORAGE' and 'UPLOAD'. The 'BLOB STORAGE' section has a sidebar with links: HOME, USER MANAGEMENT, OAUTH, BLOB STORAGE (highlighted), TEMP STORAGE, DEVICE PROFILE, DOCUMENT STORAGE, and TIME SERIES. The 'UPLOAD' section contains a form with four input fields: 'BLOB ID \*', 'PRODUCT ID \*' (containing '1'), 'TYPE \*', and 'VERSION \*'. Below these fields is a 'JSON ASSET DESCRIPTION' section with a large text area and a '+ SELECT FILE' button. At the bottom, there's a blue footer with 'COPYRIGHT 2015 INTEL. ALL RIGHTS RESERVED. 0.8.0-RC1' and 'TERMS OF USE'.

Follow this procedure to upload a firmware file. This procedure assumes the update has been downloaded from an Intel server to your local drive.

**Step 1.** Click Upload to display the Upload page.

**Step 2.** Enter the following information:

- BLOB ID  
Developer-defined identifier for the firmware file
- Product ID  
Developer-defined identifier associating the firmware with a product
- Type  
Enter the word "Firmware" (case-sensitive, no quotes).
- Version number  
Enter a positive integer using the form <Major>.<Minor>.<Patch>  
Example: 2.0.1 is the first patch of the 2.0 Release.
- Description of the JSON asset  
Provide additional information associated with the firmware file in JSON format.

- Step 3.
- Click Select File to display the drive search box and navigate to the firmware file.
- Step 4.
- Click Upload to complete the process.

## 2.7 Storing Temporary Files

The Temp Storage page is not associated with a user. It temporarily stores small pieces of data that might be needed by the application. Housekeeping and deleting this data is done by the developer. Data can be searched by Product ID, Page Number and Asset Type and the Search results can then be filtered.

intel

Sign Out  
Hi, michael@intel.com

ndgThunderDome

+

ADD A CLIENT

HOME

USER MANAGEMENT

OAuth

BLOB STORAGE

TEMP STORAGE

DEVICE PROFILE

DOCUMENT STORAGE

TIME SERIES

TEMP STORAGE

UPLOAD

PRODUCT ID \*

PAGE NUMBER

ASSET TYPE

1

Page Number

Asset Type

SEARCH

3 ASSETS FOUND

Filter

	ASSET ID	TEMP URL	ASSET TYPE	TIMESTAMP
	9b56175-592d-48a0-bd72-6298d5eed17	https://fdome.s3.amazonaws.com/artifacts/devportempstorage/9b56175-592d-48a0-bd72-6298d5eed17/foe1.1x07?AWSAccessKeyId=AKIAUG7LRBPC5C6ZV02A&Expires=1449256031&Signature=PK12z1pWNL62X6G5pJuAFAD%3D	test	THU DEC 03 2015 12:57:15 GMT-0800 (PST)
	056ac1b14-1afa-4d3a-3395-99150a3cd56	https://fdome.s3.amazonaws.com/artifacts/devportempstorage/056ac1b14-1afa-4d3a-3395-99150a3cd56/foe1.1x07?AWSAccessKeyId=AKIAUG7LRBPC5C6ZV02A&Expires=1449256031&Signature=ypA%2B%2BMs2TU5vuxpfc%3D	check	MON NOV 09 2015 09:14:30 GMT-0800 (PST)
	8442b7cb-a296-4a07-b70d-d7814887f68	https://fdome.s3.amazonaws.com/artifacts/devportempstorage/8442b7cb-a296-4a07-b70d-d7814887f68/foe1.1x07?AWSAccessKeyId=AKIAUG7LRBPC5C6ZV02A&Expires=1449256031&Signature=ksG8d9hwCkPw67CU0pknZyQY%3D	bitblob	MON NOV 09 2015 09:13:56 GMT-0800 (PST)

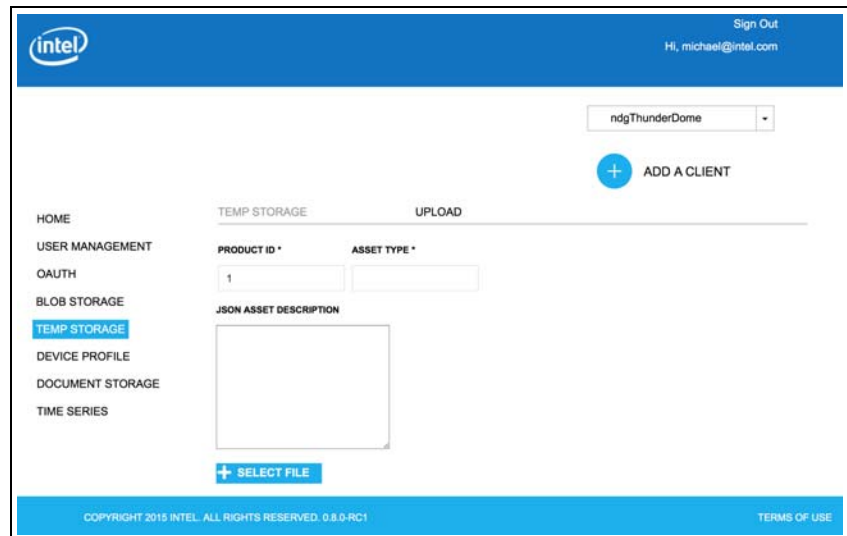
-

DELETE ASSET

COPYRIGHT 2015 INTEL. ALL RIGHTS RESERVED. 0.8.0-RC1

TERMS OF USE

**Step 1.** Click Upload to display the Upload screen.



The screenshot shows the Intel Developer Portal interface. At the top, there is a blue header with the Intel logo on the left and 'Sign Out' and 'Hi, michael@intel.com' on the right. Below the header, there is a navigation bar with 'HOME', 'TEMP STORAGE', and 'UPLOAD' tabs. The 'TEMP STORAGE' tab is active. On the left side, there is a sidebar menu with links: 'HOME', 'USER MANAGEMENT', 'OAUTH', 'BLOB STORAGE', 'TEMP STORAGE' (highlighted in blue), 'DEVICE PROFILE', 'DOCUMENT STORAGE', and 'TIME SERIES'. The main content area has a form with the following fields: 'PRODUCT ID \*' with a value of '1', 'ASSET TYPE \*' (empty), and 'JSON ASSET DESCRIPTION' (a large text area). Below the text area is a '+ SELECT FILE' button. In the top right corner of the main area, there is a dropdown menu showing 'ndgThunderDome' and a '+ ADD A CLIENT' button. At the bottom, there is a blue footer with 'COPYRIGHT 2015 INTEL. ALL RIGHTS RESERVED. 0.8.0-RC1' and 'TERMS OF USE'.

**Step 2.** Enter a Product ID, Asset Type and description for the JSON asset in the text box.

**Step 3.** Click Select File to open the drive search box and select the file.

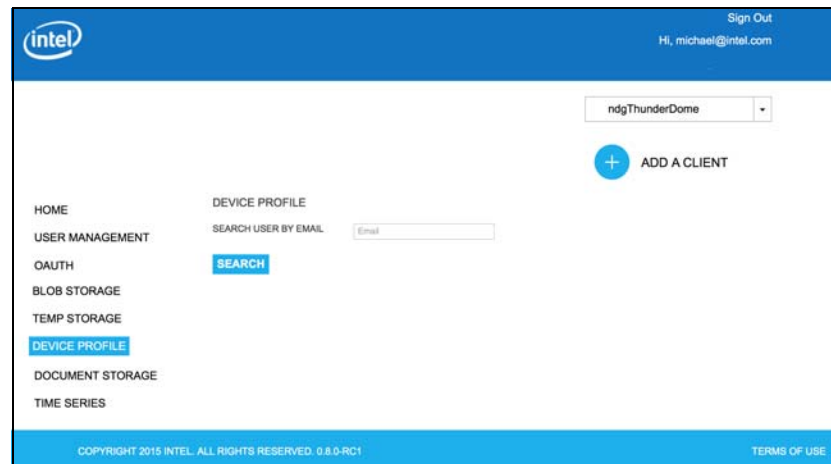
**Step 4.** Click Upload to complete the process.

## 2.8 Searching Device Profiles

The Device Profile page allows for searching user devices that have been registered by the application. These can be companion devices such as a smart phone or the Curie device itself. A hardware number, firmware version and other information can be stored by the application in JSON

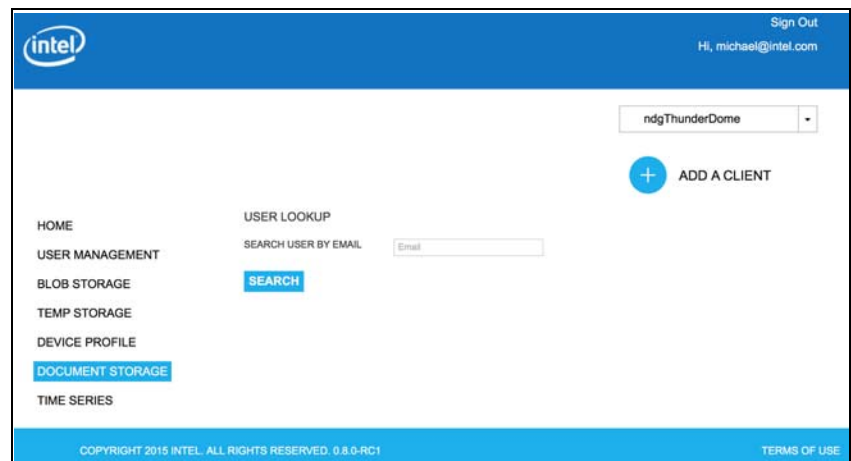


format. Device profiles can be searched by enter an email address and clicking Search.



## 2.9 Storing JSON Documents

The Document Storage page is where JSON objects can be uploaded. There is a 300 KB maximum document size. This screen will be used more readily by technical support rather than developers.



## 2.10 Searching Time Series Data Points

The Time Series page offers search functionality for Time Series data points. Time series data typically consists of successive measurements made over a time interval; for example, GPS measurements during a run. The Time Series search allows a user to enter a period of time (between start and end) to display time series data generated by the application.

The screenshot shows the Intel Developer Portal interface. At the top, there's a blue header with the Intel logo on the left and 'Sign Out' and 'Hi, michael@intel.com' on the right. Below the header, there's a navigation menu on the left with links: HOME, USER MANAGEMENT, OAUTH, BLOB STORAGE, TEMP STORAGE, DEVICE PROFILE, DOCUMENT STORAGE, and TIME SERIES (which is highlighted). To the right of the menu, there's a dropdown menu showing 'ndgThunderDome' and a button with a plus sign and the text 'ADD A CLIENT'. Below this, there's a 'TIME SERIES' section with 'START' and 'END' input fields, each with a calendar icon. Below these is a 'SEARCH USER BY EMAIL' section with an 'Email' input field and a blue 'SEARCH' button. Below the search button, there's a 'SEARCH RESULTS' section with 'USERS FOUND' and a table with columns: USER EMAIL, USER ID, and CREDENTIAL TYPE. Below this is a 'RAW DATA' section with a table with columns: TIMESTAMP, DEVICE ID, EVENT TYPE, and VALUE. At the bottom, there's a blue footer with 'COPYRIGHT 2015 INTEL. ALL RIGHTS RESERVED. 0.8.0-RC1' on the left and 'TERMS OF USE' on the right.

By entering values in the Start and End time boxes, a developer can search for users who have data within that range or the raw data itself. The Search Results are categorized according to User and Raw Time Series Data. The Raw Time Series Data will be displayed for a given user if any data exists between the defined start and end times.

## CHAPTER

# 3

## Third-Party License Information

This chapter contains the following third-party software licenses:

### 3.1 Amazon License

#### Amazon Software License

This Amazon Software License ("License") governs your use, reproduction, and distribution of the accompanying software as specified below.

##### 1. Definitions

"Licensor" means any person or entity that distributes its Work.

"Software" means the original work of authorship made available under this License.

"Work" means the Software and any additions to or derivative works of the Software that are made available under this License.

The terms "reproduce," "reproduction," "derivative works," and "distribution" have the meaning as provided under U.S. copyright law; provided, however, that 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.

Works, including the Software, are "made available" under this License by including in or with the Work either (a) a copyright notice referencing the applicability of this License to the Work, or (b) a copy of this License.

### 2. License Grants

2.1 Copyright Grant. Subject to the terms and conditions of this License, each Licensor grants to you a perpetual, worldwide, non-exclusive, royalty-free, copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, sublicense and distribute its Work and any resulting derivative works in any form.

2.2 Patent Grant. Subject to the terms and conditions of this License, each Licensor grants to you a perpetual, worldwide, non-exclusive, royalty-free patent license to make, have made, use, sell, offer for sale, import, and otherwise transfer its Work, in whole or in part. The foregoing license applies only to the patent claims licensable by Licensor that would be infringed by Licensor's Work (or portion thereof) individually and excluding any combinations with any other materials or technology.

### 3. Limitations

3.1 Redistribution. You may reproduce or distribute the Work only if (a) you do so under this License, (b) you include a complete copy of this License with your distribution, and (c) you retain without modification any copyright, patent, trademark, or attribution notices that are present in the Work.

3.2 Derivative Works. You may specify that additional or different terms apply to the use, reproduction, and distribution of your derivative works of the Work ("Your Terms") only if (a) Your Terms provide that the use limitation in Section 3.3 applies to your derivative works, and (b) you identify the specific derivative works that are subject to Your Terms. Notwithstanding Your Terms, this License (including the redistribution requirements in Section 3.1) will continue to apply to the Work itself.

3.3 Use Limitation. The Work and any derivative works thereof only may be used or intended for use with the web services, computing platforms or applications provided by Amazon.com, Inc. or its affiliates, including Amazon Web Services, Inc.

3.4 Patent Claims. If you bring or threaten to bring a patent claim against any Licensor (including any claim, cross-claim or counterclaim in a lawsuit) to enforce any patents that you allege are infringed by any Work, then your rights under this License from such Licensor (including the grants in Sections 2.1 and 2.2) will terminate immediately.

3.5 Trademarks. This License does not grant any rights to use any Licensor's or its affiliates' names, logos, or trademarks, except as necessary to reproduce the notices described in this License.

3.6 Termination. If you violate any term of this License, then your rights under this License (including the grants in Sections 2.1 and 2.2) will terminate immediately.

### 4. Disclaimer of Warranty.

THE WORK IS PROVIDED "AS IS" WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE OR NON-INFRINGEMENT. YOU BEAR THE RISK OF UNDERTAKING ANY ACTIVITIES UNDER THIS LICENSE. SOME STATES' CONSUMER LAWS DO NOT

ALLOW EXCLUSION OF AN IMPLIED WARRANTY, SO THIS DISCLAIMER MAY NOT APPLY TO YOU.

#### 5. Limitation of Liability.

EXCEPT AS PROHIBITED BY APPLICABLE LAW, IN NO EVENT AND UNDER NO LEGAL THEORY, WHETHER IN TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE SHALL ANY LICENSOR BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR RELATED TO THIS LICENSE, THE USE OR INABILITY TO USE THE WORK (INCLUDING BUT NOT LIMITED TO LOSS OF GOODWILL, BUSINESS INTERRUPTION, LOST PROFITS OR DATA, COMPUTER FAILURE OR MALFUNCTION, OR ANY OTHER COMMERCIAL DAMAGES OR LOSSES), EVEN IF THE LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 3.2 Apache License

### Apache License

Version 2.0, January 2004

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

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

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

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

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

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

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

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

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is

included in or attached to the work (an example is provided in the Appendix below).

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

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

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

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

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

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

- \* You must give any other recipients of the Work or Derivative Works a copy of this License; and
- \* You must cause any modified files to carry prominent notices stating that You changed the files; and
- \* You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

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

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

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

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

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

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

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

against, such Contributor by reason of your accepting any such warranty or additional liability.

Note: Other license terms may apply to certain, identified software files contained within or distributed with the accompanying software if such terms are included in the directory containing the accompanying software. Such other license terms will then apply in lieu of the terms of the software license above.

END OF TERMS AND CONDITION

### 3.3 BSD License

The BSD 2-Clause License  
Copyright (c) 2015, BSD  
All rights reserved.

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

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

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT 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.

### 3.4 Dojo Foundation License

The BSD 2-Clause License  
Copyright (c) 2015, BSD  
All rights reserved.



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

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

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT 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.

## 3.5 Eclipse Public 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: a) it must be made available under this Agreement; and b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program. Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

### 4. COMMERCIAL DISTRIBUTION

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

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

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

#### 5. NO WARRANTY

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

#### 6. DISCLAIMER OF LIABILITY

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

#### 7. GENERAL

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

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

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

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

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

## 3.6 GNU General Public 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.

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. 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.

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.



6. 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.

7. 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.

8. 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.

9. 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.

10. 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

11. 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.

12. 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

How to Apply These Terms to Your New Programs

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

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

one line to give the program's name and an idea of what it does.

Copyright (C) yyyy name of author

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

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

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. Also add information on how to contact you by electronic and paper mail.

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

Gnomovision version 69, Copyright (C) year name of author

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.



signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

## 3.7 HSQL License

HSQL Development Group

For work developed by the HSQL Development Group:

Copyright (c) 2001-2010, The HSQL Development Group. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of the HSQL Development Group 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 HSQL DEVELOPMENT GROUP, HSQLDB.ORG, 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.

For work originally developed by the Hypersonic SQL Group: Copyright (c) 1995-2000 by the Hypersonic SQL Group. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of the Hypersonic SQL Group 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 HYPERSONIC SQL GROUP, 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. This software consists of voluntary contributions made by many individuals on behalf of the ?Hypersonic SQL Group. ?

This page last updated 6 March 2010

Java is a Trademark of Sun Microsystems, Inc. (under various licenses). Contents of this page are ©2001-2011 The hsql Development Group. All rights reserved under the terms of the applicable Licenses.

## 3.8 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.

## 3.9 MIT License

The MIT License

Copyright (c) 2015 MIT Open Source Initiative  
Copyright (c) 2015 Douglas Christopher Wilson  
Copyright (c) 2014 nathschmidt

Copyright (c) 2013 Ryan Fitzgerald  
Copyright (c) 2013-2015 Nathan Peck  
Copyright (c) 2012-2015 Tom de Grunt  
Copyright (c) 2013 Brian J. Brennan  
Copyright (c) 2013 Wil Moore III  
Copyright (c) 2013 Nathan Rajlich  
Copyright (c) 2012..2015 David Chambers  
Copyright (c) 2012-2014 JP Richardson  
Copyright (c) 2012 Nicholas Fisher  
Copyright (c) 2011-2015 Tim Wood, Iskren Chernev, Moment.js contributors  
Copyright (c) 2011-2014 TJ Holowaychuk  
Copyright (c) 2011-2012 Joyent Inc.  
Copyright (c) 2011 Mark Cavage, All rights reserved.  
Copyright (c) 2010-2014 Caolan McMahon  
Copyright (c) 2010-2012 Robert Kieffer  
Copyright (c) 2009-2014 Kristopher Michael Kowal. All rights reserved.  
Copyright (c) Kevin Mårtensson

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 AUTHOR 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.

## 3.10 Oracle License

Oracle Binary Code License Agreement for the Java SE Platform Products and JavaFX

ORACLE AMERICA, INC. ("ORACLE"), FOR AND ON BEHALF OF ITSELF AND ITS SUBSIDIARIES AND AFFILIATES UNDER COMMON CONTROL, IS WILLING TO LICENSE THE SOFTWARE TO YOU ONLY UPON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS CONTAINED IN THIS BINARY CODE LICENSE

AGREEMENT AND SUPPLEMENTAL LICENSE TERMS (COLLECTIVELY "AGREEMENT"). PLEASE READ THE AGREEMENT CAREFULLY. BY SELECTING THE "ACCEPT LICENSE AGREEMENT" (OR THE EQUIVALENT) BUTTON AND/OR BY USING THE SOFTWARE YOU ACKNOWLEDGE THAT YOU HAVE READ THE TERMS AND AGREE TO THEM. IF YOU ARE AGREEING TO THESE TERMS ON BEHALF OF A COMPANY OR OTHER LEGAL ENTITY, YOU REPRESENT THAT YOU HAVE THE LEGAL AUTHORITY TO BIND THE LEGAL ENTITY TO THESE TERMS. IF YOU DO NOT HAVE SUCH AUTHORITY, OR IF YOU DO NOT WISH TO BE BOUND BY THE TERMS, THEN SELECT THE "DECLINE LICENSE AGREEMENT" (OR THE EQUIVALENT) BUTTON AND YOU MUST NOT USE THE SOFTWARE ON THIS SITE OR ANY OTHER MEDIA ON WHICH THE SOFTWARE IS CONTAINED.

1. DEFINITIONS. "Software" means the software identified above in binary form that you selected for download, install or use (in the version You selected for download, install or use) from Oracle or its authorized licensees, any other machine readable materials (including, but not limited to, libraries, source files, header files, and data files), any updates or error corrections provided by Oracle, and any user manuals, programming guides and other documentation provided to you by Oracle under this Agreement. "General Purpose Desktop Computers and Servers" means computers, including desktop and laptop computers, or servers, used for general computing functions under end user control (such as but not specifically limited to email, general purpose Internet browsing, and office suite productivity tools). The use of Software in systems and solutions that provide dedicated functionality (other than as mentioned above) or designed for use in embedded or function-specific software applications, for example but not limited to: Software embedded in or bundled with industrial control systems, wireless mobile telephones, wireless handheld devices, kiosks, TV/STB, Blu-ray Disc devices, telematics and network control switching equipment, printers and storage management systems, and other related systems are excluded from this definition and not licensed under this Agreement. "Programs" means (a) Java technology applets and applications intended to run on the Java Platform, Standard Edition platform on Java-enabled General Purpose Desktop Computers and Servers; and (b) JavaFX technology applications intended to run on the JavaFX Runtime on JavaFX-enabled General Purpose Desktop Computers and Servers. "Commercial Features" means those features identified in Table 1-1 (Commercial Features In Java SE Product Editions) of the Java SE documentation accessible at <http://www.oracle.com/technetwork/java/javase/documentation/index.html>. "README File" means the README file for the Software accessible at <http://www.oracle.com/technetwork/java/javase/documentation/index.html>.

2. LICENSE TO USE. Subject to the terms and conditions of this Agreement including, but not limited to, the Java Technology Restrictions of the Supplemental License Terms, Oracle grants you a non-exclusive, non-transferable, limited license without license fees to reproduce and use internally the Software complete and unmodified for the sole purpose of running Programs. THE LICENSE SET FORTH IN THIS SECTION 2 DOES NOT EXTEND TO THE COMMERCIAL FEATURES. YOUR RIGHTS AND OBLIGATIONS RELATED TO THE COMMERCIAL FEATURES ARE AS SET FORTH IN THE SUPPLEMENTAL TERMS ALONG WITH ADDITIONAL LICENSES FOR DEVELOPERS AND PUBLISHERS.

3. RESTRICTIONS. Software is copyrighted. Title to Software and all associated intellectual property rights is retained by Oracle and/or its licensors. Unless enforcement is prohibited by applicable law, you may not modify, decompile, or reverse engineer Software. You acknowledge that the Software 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 the Software 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 disclaims any express or implied warranty of fitness for such uses. No

right, title or interest in or to any trademark, service mark, logo or trade name of Oracle or its licensors is granted under this Agreement. Additional restrictions for developers and/or publishers licenses are set forth in the Supplemental License Terms.

4. **DISCLAIMER OF WARRANTY.** THE SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. ORACLE FURTHER DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NONINFRINGEMENT.

5. **LIMITATION OF LIABILITY.** IN NO EVENT SHALL ORACLE BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, OR DAMAGES FOR LOSS OF PROFITS, REVENUE, DATA OR DATA USE, INCURRED BY YOU OR ANY THIRD PARTY, WHETHER IN AN ACTION IN CONTRACT OR TORT, EVEN IF ORACLE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. ORACLE'S ENTIRE LIABILITY FOR DAMAGES HEREUNDER SHALL IN NO EVENT EXCEED ONE THOUSAND DOLLARS (U.S. \$1,000).

6. **TERMINATION.** This Agreement is effective until terminated. You may terminate this Agreement at any time by destroying all copies of Software. This Agreement will terminate immediately without notice from Oracle if you fail to comply with any provision of this Agreement. Either party may terminate this Agreement immediately should any Software become, or in either party's opinion be likely to become, the subject of a claim of infringement of any intellectual property right. Upon termination, you must destroy all copies of Software.

7. **EXPORT REGULATIONS.** You agree that U.S. export control laws and other applicable export and import laws govern your use of the Software, including technical data; additional information can be found on Oracle's Global Trade Compliance web site (<http://www.oracle.com/us/products/export>). You agree that neither the Software nor any direct product thereof will be exported, directly, or indirectly, in violation of these laws, or will be used for any purpose prohibited by these laws including, without limitation, nuclear, chemical, or biological weapons proliferation.

8. **TRADEMARKS AND LOGOS.** You acknowledge and agree as between you and Oracle that Oracle owns the ORACLE and JAVA trademarks and all ORACLE- and JAVA-related trademarks, service marks, logos and other brand designations ("Oracle Marks"), and you agree to comply with the Third Party Usage Guidelines for Oracle Trademarks currently located at <http://www.oracle.com/us/legal/third-party-trademarks/index.html> . Any use you make of the Oracle Marks inures to Oracle's benefit.

9. **U.S. GOVERNMENT LICENSE RIGHTS.** If Software is being acquired by or on behalf of the U.S. Government or by a U.S. Government prime contractor or subcontractor (at any tier), then the Government's rights in Software and accompanying documentation shall be only those set forth in this Agreement.

10. **GOVERNING LAW.** This agreement is governed by the substantive and procedural laws of California. You and Oracle agree to submit to the exclusive jurisdiction of, and venue in, the courts of San Francisco, or Santa Clara counties in California in any dispute arising out of or relating to this agreement.

11. **SEVERABILITY.** If any provision of this Agreement is held to be unenforceable, this Agreement will remain in effect with the provision omitted, unless omission would frustrate the intent of the parties, in which case this Agreement will immediately terminate.

12. **INTEGRATION.** This Agreement is the entire agreement between you and Oracle relating to its subject matter. It supersedes all prior or contemporaneous oral or written communications, proposals, representations and warranties and prevails over any conflicting or additional terms of any quote, order, acknowledgment, or other communication between the parties relating to its subject matter during the term of this Agreement. No modification of this

Agreement will be binding, unless in writing and signed by an authorized representative of each party.

### SUPPLEMENTAL LICENSE TERMS

These Supplemental License Terms add to or modify the terms of the Binary Code License Agreement. Capitalized terms not defined in these Supplemental Terms shall have the same meanings ascribed to them in the Binary Code License Agreement. These Supplemental Terms shall supersede any inconsistent or conflicting terms in the Binary Code License Agreement, or in any license contained within the Software.

A. **COMMERCIAL FEATURES.** You may not use the Commercial Features for running Programs, Java applets or applications in your internal business operations or for any commercial or production purpose, or for any purpose other than as set forth in Sections B, C, D and E of these Supplemental Terms. If You want to use the Commercial Features for any purpose other than as permitted in this Agreement, You must obtain a separate license from Oracle.

B. **SOFTWARE INTERNAL USE FOR DEVELOPMENT LICENSE GRANT.** Subject to the terms and conditions of this Agreement and restrictions and exceptions set forth in the README File incorporated herein by reference, including, but not limited to the Java Technology Restrictions of these Supplemental Terms, Oracle grants you a non-exclusive, non-transferable, limited license without fees to reproduce internally and use internally the Software complete and unmodified for the purpose of designing, developing, and testing your Programs.

C. **LICENSE TO DISTRIBUTE SOFTWARE.** Subject to the terms and conditions of this Agreement and restrictions and exceptions set forth in the README File, including, but not limited to the Java Technology Restrictions and Limitations on Redistribution of these Supplemental Terms, Oracle grants you a non-exclusive, non-transferable, limited license without fees to reproduce and distribute the Software, provided that (i) you distribute the Software complete and unmodified and only bundled as part of, and for the sole purpose of running, your Programs, (ii) the Programs add significant and primary functionality to the Software, (iii) you do not distribute additional software intended to replace any component(s) of the Software, (iv) you do not remove or alter any proprietary legends or notices contained in the Software, (v) you only distribute the Software subject to a license agreement that: (a) is a complete, unmodified reproduction of this Agreement; or (b) protects Oracle's interests consistent with the terms contained in this Agreement and that includes the notice set forth in Section H, and (vi) you agree to defend and indemnify Oracle and its licensors from and against any damages, costs, liabilities, settlement amounts and/or expenses (including attorneys' fees) incurred in connection with any claim, lawsuit or action by any third party that arises or results from the use or distribution of any and all Programs and/or Software. The license set forth in this Section C does not extend to the Software identified in Section G.

D. **LICENSE TO DISTRIBUTE REDISTRIBUTABLES.** Subject to the terms and conditions of this Agreement and restrictions and exceptions set forth in the README File, including but not limited to the Java Technology Restrictions and Limitations on Redistribution of these Supplemental Terms, Oracle grants you a non-exclusive, non-transferable, limited license without fees to reproduce and distribute those files specifically identified as redistributable in the README File ("Redistributables") provided that: (i) you distribute the Redistributables complete and unmodified, and only bundled as part of Programs, (ii) the Programs add significant and primary functionality to the Redistributables, (iii) you do not distribute additional software intended to supersede any component(s) of the Redistributables (unless otherwise specified in the applicable README File), (iv) you do not remove or alter any proprietary legends or notices contained in or on the Redistributables, (v) you only distribute the Redistributables pursuant to a license agreement that: (a) is a complete, unmodified reproduction of this Agreement; or (b) protects Oracle's interests consistent with the terms contained in the Agreement and includes the notice set forth in Section H, (vi) you agree to defend and indemnify Oracle and its

licensors from and against any damages, costs, liabilities, settlement amounts and/or expenses (including attorneys' fees) incurred in connection with any claim, lawsuit or action by any third party that arises or results from the use or distribution of any and all Programs and/or Software. The license set forth in this Section D does not extend to the Software identified in Section G.

E. DISTRIBUTION BY PUBLISHERS. This section pertains to your distribution of the Java™ SE Development Kit Software ("JDK") with your printed book or magazine (as those terms are commonly used in the industry) relating to Java technology ("Publication"). Subject to and conditioned upon your compliance with the restrictions and obligations contained in the Agreement, Oracle hereby grants to you a non-exclusive, nontransferable limited right to reproduce complete and unmodified copies of the JDK on electronic media (the "Media") for the sole purpose of inclusion and distribution with your Publication(s), subject to the following terms: (i) You may not distribute the JDK on a stand-alone basis; it must be distributed with your Publication(s); (ii) You are responsible for downloading the JDK from the applicable Oracle web site; (iii) You must refer to the JDK as Java™ SE Development Kit; (iv) The JDK must be reproduced in its entirety and without any modification whatsoever (including with respect to all proprietary notices) and distributed with your Publication subject to a license agreement that is a complete, unmodified reproduction of this Agreement; (v) The Media label shall include the following information: "Copyright [YEAR], Oracle America, Inc. All rights reserved. Use is subject to license terms. ORACLE and JAVA trademarks and all ORACLE- and JAVA-related trademarks, service marks, logos and other brand designations are trademarks or registered trademarks of Oracle in the U.S. and other countries." [YEAR] is the year of Oracle's release of the Software; the year information can typically be found in the Software's "About" box or screen. This information must be placed on the Media label in such a manner as to only apply to the JDK; (vi) You must clearly identify the JDK as Oracle's product on the Media holder or Media label, and you may not state or imply that Oracle is responsible for any third-party software contained on the Media; (vii) You may not include any third party software on the Media which is intended to be a replacement or substitute for the JDK; (viii) You agree to defend and indemnify Oracle and its licensors from and against any damages, costs, liabilities, settlement amounts and/or expenses (including attorneys' fees) incurred in connection with any claim, lawsuit or action by any third party that arises or results from the use or distribution of the JDK and/or the Publication; and (ix) You shall provide Oracle with a written notice for each Publication; such notice shall include the following information: (1) title of Publication, (2) author(s), (3) date of Publication, and (4) ISBN or ISSN numbers. Such notice shall be sent to Oracle America, Inc., 500 Oracle Parkway, Redwood Shores, California 94065 U.S.A, Attention: General Counsel.

F. JAVA TECHNOLOGY RESTRICTIONS. You may not create, modify, or change the behavior of, or authorize your licensees to create, modify, or change the behavior of, classes, interfaces, or subpackages that are in any way identified as "java", "javax", "sun", "oracle" or similar convention as specified by Oracle in any naming convention designation.

G. LIMITATIONS ON REDISTRIBUTION. You may not redistribute or otherwise transfer patches, bug fixes or updates made available by Oracle through Oracle Premier Support, including those made available under Oracle's Java SE Support program.

H. COMMERCIAL FEATURES NOTICE. For purpose of complying with Supplemental Term Section C.(v)(b) and D.(v)(b), your license agreement shall include the following notice, where the notice is displayed in a manner that anyone using the Software will see the notice:

Use of the Commercial Features for any commercial or production purpose requires a separate license from Oracle. "Commercial Features" means those features identified Table 1-1 (Commercial Features In Java SE Product Editions) of the Java SE documentation accessible at <http://www.oracle.com/technetwork/java/javase/documentation/index.html>



I. SOURCE CODE. Software may contain source code that, unless expressly licensed for other purposes, is provided solely for reference purposes pursuant to the terms of this Agreement. Source code may not be redistributed unless expressly provided for in this Agreement.

J. THIRD PARTY CODE. Additional copyright notices and license terms applicable to portions of the Software are set forth in the THIRDPARTYLICENSEREADME file accessible at <http://www.oracle.com/technetwork/java/javase/documentation/index.html>. In addition to any terms and conditions of any third party opensource/freeware license identified in the THIRDPARTYLICENSEREADME file, the disclaimer of warranty and limitation of liability provisions in paragraphs 4 and 5 of the Binary Code License Agreement shall apply to all Software in this distribution.

K. TERMINATION FOR INFRINGEMENT. Either party may terminate this Agreement immediately should any Software become, or in either party's opinion be likely to become, the subject of a claim of infringement of any intellectual property right.

L. INSTALLATION AND AUTO-UPDATE. The Software's installation and auto-update processes transmit a limited amount of data to Oracle (or its service provider) about those specific processes to help Oracle understand and optimize them. Oracle does not associate the data with personally identifiable information. You can find more information about the data Oracle collects as a result of your Software download at <http://www.oracle.com/technetwork/java/javase/documentation/index.html>.

For inquiries please contact: Oracle America, Inc., 500 Oracle Parkway, Redwood Shores, California 94065, USA.

Last updated 02 April 2013