

Intel Software Platform for Curie Developer Portal

Administrator's Guide

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BETA DRAFT



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CHAPTER

1

Introducing the Intel Developer Portal

This chapter provides an overview of the Intel Software 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 is organized in the following sections.

- [“1.1 Understanding the Intel Developer Portal”](#)
- [“1.2 Working with the Intel Developer Portal”](#)
- [“1.3 More Information on Intel Software Platform for Curie”](#)

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 [“2.1 Getting a Developer Portal Account” on page 10](#) and [“2.2 Logging into a Developer Portal Account” on page 13](#) 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 [“2.4 Managing Developers and Users” on page 17](#) for details.
- The OAuth page is where the authentication option used to log in to the registered application is selected. UAA is en-

abled by default but Google or Facebook authentication can be selected as well. See [“2.5 Using OAuth” on page 19](#) for details.

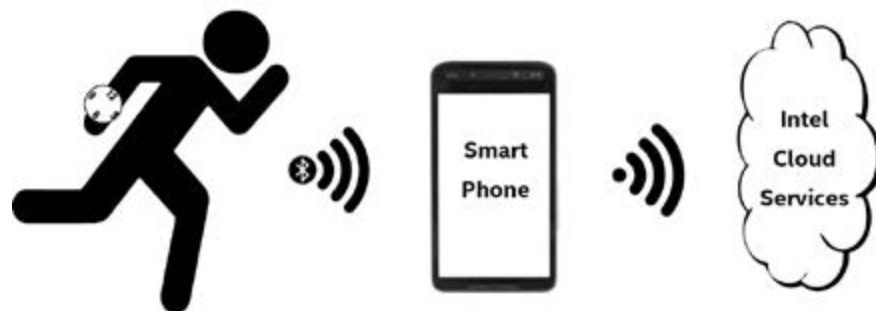
- The BLOB Storage page is where the developer can upload Binary Large Object (BLOB) collections of firmware, software updates, voice packs, map data and other general purpose application data. See [“2.6 Storing BLOB Data” on page 20](#) for details.
- The Temp Storage page is not associated with a user. It temporarily stores small pieces of data that might be needed by the application. Housekeeping and deleting this data is done by the developer. See [“2.7 Storing Temporary Files” on page 22](#) 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. See [“2.8 Searching Device Profiles” on page 24](#) 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. See [“2.9 Storing JSON Documents” on page 25](#) 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. See [“2.10 Searching Time Series Data Points” on page 26](#) 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.

HOW INTEL WEARABLE TECHNOLOGY WORKS

- OEM incorporates Intel® Curie™ Module into a wearable device running the software stack based on Intel's wearable OS.
- OEM develops mobile application for iOS/Android using Intel Software Platform for Curie SDK and registers the client using Developer Portal.
- Customer downloads and registers client on smart phone (companion device) and wearable device communicates user data to it via Bluetooth Smart.
- Companion device uses client integrated with Intel Cloud Services SDK to upload and analyze user data collected from the wearable.



Access to the Intel Developer Portal is from the Intel Curie Module Beta Site located at <http://iqsoftwarekit.intel.com>. For details, see [“Using the Intel Developer Portal”](#).

1.3 More Information on Intel Software Platform for Curie

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 the 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 is organized in the following sections.

- [“2.1 Getting a Developer Portal Account”](#)
- [“2.2 Adding a New Mobile Application”](#)
- [“2.3 Generating a Mobile Application’s Public Token”](#)
- [“2.4 Managing Developers and Users”](#)
- [“2.5 Using OAuth”](#)
- [“2.6 Storing BLOB Data”](#)
- [“2.7 Storing Temporary Files”](#)
- [“2.8 Searching Device Profiles”](#)
- [“2.9 Storing JSON Documents”](#)
- [“2.10 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.

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



-
2. Click Portal to access the Developer Portal Sign In page
 3. Click Sign In on the Developer Portal Sign In page to access the Login page.



Login


[Forgot Your Password?](#)

SIGN IN

The Login page is displayed. You can login if you have received a password for a registered developer account. Account holders can also access a Forgot Your Password screen.

4. Enter the email address and password associated with the developer account and click Sign In.

The Developer Portal Home page is displayed. 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.



Sign Out
Hi, michael@intel.com

ndgThunderDome

+

ADD A CLIENT

HOME

USER MANAGEMENT

BLOB STORAGE

TEMP STORAGE

DEVICE PROFILE

DOCUMENT STORAGE

TIME SERIES

APPLICATION INFO

Welcome!

To start a new project, click the "Add Client ID" button. Make sure you save the client secret in a safeplace, as there's no way to recover it.

Next, select the newly created ID from the drop down list above.

ClientID: ndgThunderDome

Client Name:

—

DELETE CLIENT

PUBLIC TOKEN

30 days

all user

GENERATE

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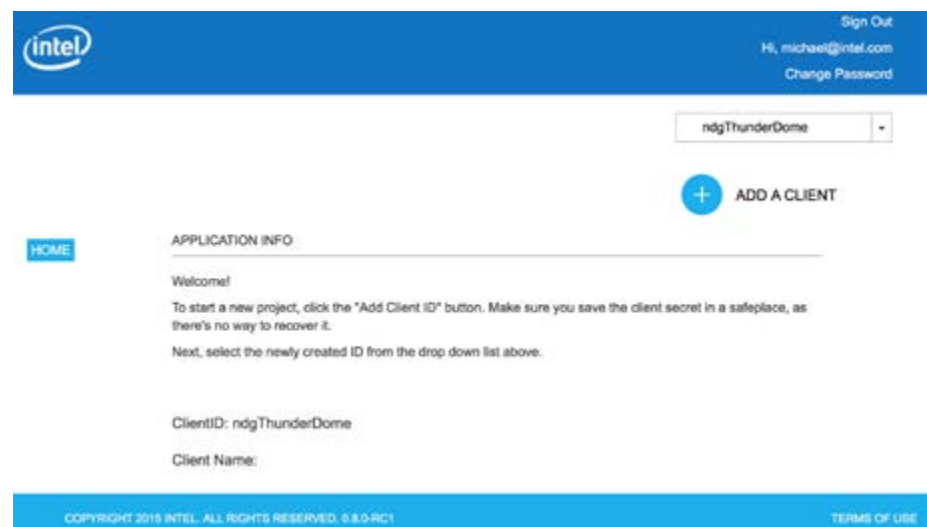
TERMS OF USE

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 the Android app) or the `info.plist` file (of the iOS app). The `AndroidManifest.xml` configuration will likely look like this.

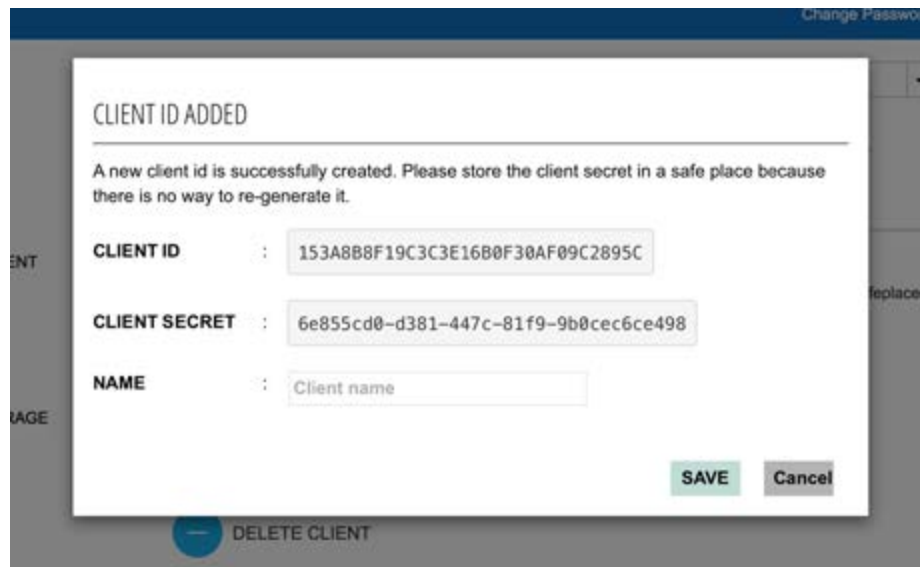
```
<meta-data android:name="deployment-type" android:value="int" />
<meta-data android:name="domain-name" android:value="wearables.intel.com" />
<meta-data android:name="client-id" android:value="ndgFightClub" />
<meta-data android:name="client-secret" android:value="ndgFightClubSecRet" />
<meta-data android:name="client-public-token" android:value="generated token" />
```

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.



1. Click Add A Client to generate a new Client ID.

The Client ID Added page is displayed.



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.

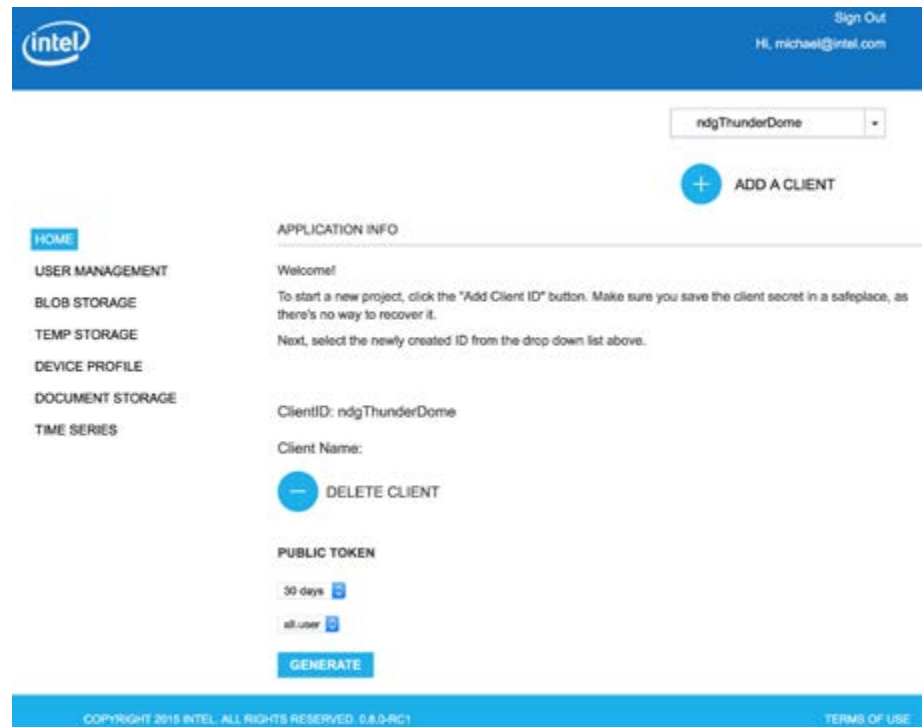
3. Enter a name for the client (for example, Wearable App) and click Save.

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's 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 [“2.3 Generating a Mobile Application's Public Token”](#).

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 the Android app) or the `info.plist` file (of the iOS app) as are the Client ID and Client Secret. See ["2.2 Adding a New Mobile Application" on page 13](#) 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.

Sign Out
Hi, michael@intel.com

ndgThunderDome

+ ADD A CLIENT

HOME
USER MANAGEMENT
OAUTH
BLOB STORAGE
TEMP STORAGE
DEVICE PROFILE
DOCUMENT STORAGE
TIME SERIES

USER MANAGEMENT

+ ADD DEVELOPER

SEARCH USER BY EMAIL

SEARCH

1 SEARCH RESULTS FOUND

Filter

	USER EMAIL	USER ID	DEVELOPER
<input type="checkbox"/>	michael@intel.com	9EEAF21675A8C50A32E2252B617ED663	

DELETE USER

SAVE

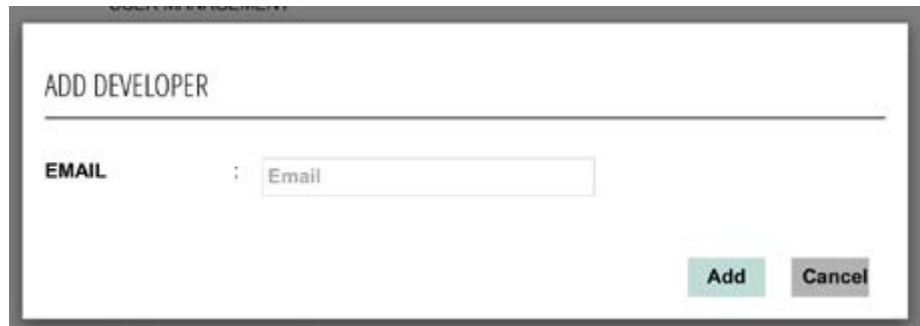
COPYRIGHT 2015 INTEL. ALL RIGHTS RESERVED. D & O-RC1

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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.)

A screenshot of a web form titled "ADD DEVELOPER". The form has a header section with the title "ADD DEVELOPER" and a horizontal line below it. Below the line, there is a label "EMAIL" followed by a colon and a text input field containing the placeholder text "Email". At the bottom right of the form, there are two buttons: a green "Add" button and a grey "Cancel" button.

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 OAuth configuration page in the Intel Software Platform for Curie Developer Portal. The page has a blue header with the Intel logo and a user profile (Hi, michael@intel.com) with a 'Sign Out' link. A dropdown menu shows 'ndgThunderDome'. Below this is a '+ ADD A CLIENT' button. On the left is a sidebar with navigation links: HOME, USER MANAGEMENT, OAUTH (highlighted), BLOB STORAGE, TEMP STORAGE, DEVICE PROFILE, DOCUMENT STORAGE, and TIME SERIES. The main content area is titled 'OAUTH' and contains the following text: '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 radio button and two input fields: '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 'TERMS OF USE' link.

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.

The screenshot shows the Intel BLOB Storage page. At the top is the Intel logo and a user profile section with 'Sign Out' and 'Hi, michael@intel.com'. Below this is a dropdown menu showing 'ndgThunderDome' and an 'ADD A CLIENT' button. A sidebar on the left contains navigation links: HOME, USER MANAGEMENT, OAUTH, BLOB STORAGE (highlighted), TEMP STORAGE, DEVICE PROFILE, DOCUMENT STORAGE, and TIME SERIES. The main content area is titled 'BLOB STORAGE' and 'UPLOAD'. It features search filters for 'PRODUCT ID *' (value: 1), 'LANGUAGE' (value: Language), 'VERSION' (value: Version), and 'TYPE' (value: Type). Below these is a 'USER INFO' section with radio buttons for 'EMAIL' (selected) and 'USER ID', a text input for 'User Email', and a 'SEARCH' button. The results section shows '1 ASSETS FOUND' with a 'Filter' dropdown. A table displays the asset details:

	BLOB ID	TYPE	VERSION	TIMESTAMP	
	432	test	1.2.3	FRI NOV 20 2015 18:21:57 GMT-0800 (PST)	EDIT

At the bottom of the table area is a 'DELETE ASSET' button. The footer contains 'COPYRIGHT 2015 INTEL. ALL RIGHTS RESERVED. 0.0.0-RC1' and 'TERMS OF USE'.

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 chip, the developer goes to the Intel Firmware update page, downloads the appropriate update and then uploads it to this BLOB storage page - associating the BLOB with an application's ID. Upon a

user's launch of the application on the companion device, a notification is displayed that there is a firmware update. The user then clicks OK to update the firmware.

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

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

1. Click Upload to display the Upload page.
2. Enter a BLOB ID, a Product ID, a Type, a Version number and a description of the JSON asset in the text box.
3. Click Select File to display the drive search box and navigate to the firmware file.
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.

The screenshot shows the Intel Software Platform for Curie Developer Portal Admin interface. The top navigation bar includes the Intel logo, a 'Sign Out' button, and the email 'H. michel@intel.com'. Below the navigation bar, there's a dropdown menu showing 'ndgThunderDome'. A '+ ADD A CLIENT' button is visible. The left sidebar contains a menu with options: HOME, USER MANAGEMENT, GAUTH, BLOB STORAGE, TEMP STORAGE (highlighted), DEVICE PROFILE, DOCUMENT STORAGE, and TIME SERIES. The main content area is titled 'TEMP STORAGE' and has an 'UPLOAD' button. Below this, there are search filters for 'PRODUCT ID', 'PAGE NUMBER', and 'ASSET TYPE', each with a corresponding input field. A 'SEARCH' button is located below these filters. The results section shows '3 ASSETS FOUND' and a table with columns: ASSET ID, TEMP URL, ASSET TYPE, and TIMESTAMP. The table contains three rows of data. At the bottom of the main content area, there is a 'DELETE ASSET' button. The footer of the page contains 'COPYRIGHT 2015 INTEL. ALL RIGHTS RESERVED. 6.8.5-RC1' and 'TERMS OF USE'.

ASSET ID	TEMP URL	ASSET TYPE	TIMESTAMP
5f52175-9d3-49a5-bd13-6298a3f6e177	https://bmc-k3.amazonaws.com/efbca3b2e9c7tempstorage/5f52175-9d3-49a5-bd13-6298a3f6e177/1.txt?AWSAccessKeyId=AKIAJG7N8CP9G2VQ3AMZQPMZ144829031&Signature=PN12J1VWNL62ZxG9BjAFAZY%3D	txt	THU DEC 23 2015 12:57:11 (GMT-0800 (PST))
0ba7014-1af9-403a-9395-581592a3a09f	https://bmc-k3.amazonaws.com/efbca3b2e9c7tempstorage/0ba7014-1af9-403a-9395-581592a3a09f/1.txt?AWSAccessKeyId=AKIAJG7N8CP9G2VQ3AMZQPMZ144829031&Signature=gpfA9thvA%2B%2B%2BMAJ2T4thvwpk%2B	check	MON NOV 09 2015 09:14:30 (GMT-0800 (PST))
8a42b70-a296-4a07-970a-6781488f7f22	https://bmc-k3.amazonaws.com/efbca3b2e9c7tempstorage/8a42b70-a296-4a07-970a-6781488f7f22/1.txt?AWSAccessKeyId=AKIAJG7N8CP9G2VQ3AMZQPMZ144829031&Signature=ka3809kaCPw67CUQpH42zyQ2%2D	subimage	MON NOV 09 2015 09:13:58 (GMT-0800 (PST))

Follow this procedure to upload a file to temporary storage.

1. Click Upload to display the Upload screen.

The screenshot displays the Intel Software Platform for Curie Developer Portal Administrator's Guide interface. At the top, the Intel logo is on the left, and 'Sign Out' and 'Hi, michael@intel.com' are on the right. Below the header, a dropdown menu shows 'ndgThunderDome'. A blue circular button with a plus sign and the text 'ADD A CLIENT' is positioned to the right. On the left side, a vertical navigation menu lists: HOME, USER MANAGEMENT, OAUTH, BLOB STORAGE, TEMP STORAGE (highlighted in blue), DEVICE PROFILE, DOCUMENT STORAGE, and TIME SERIES. The main content area is titled 'TEMP STORAGE' and 'UPLOAD'. It contains two input fields: 'PRODUCT ID *' with the value '1' and 'ASSET TYPE *'. Below these is a large text area labeled 'JSON ASSET DESCRIPTION'. A blue button with a plus sign and the text 'SELECT FILE' is located below the text area. At the bottom, a blue footer bar contains 'COPYRIGHT 2015 INTEL. ALL RIGHTS RESERVED. 0.0.0-RC1' on the left and 'TERMS OF USE' on the right.

2. Enter a Product ID, Asset Type and description for the JSON asset in the text box.
3. Click Select File to open the drive search box and select the file.
4. Click Upload to complete the process.

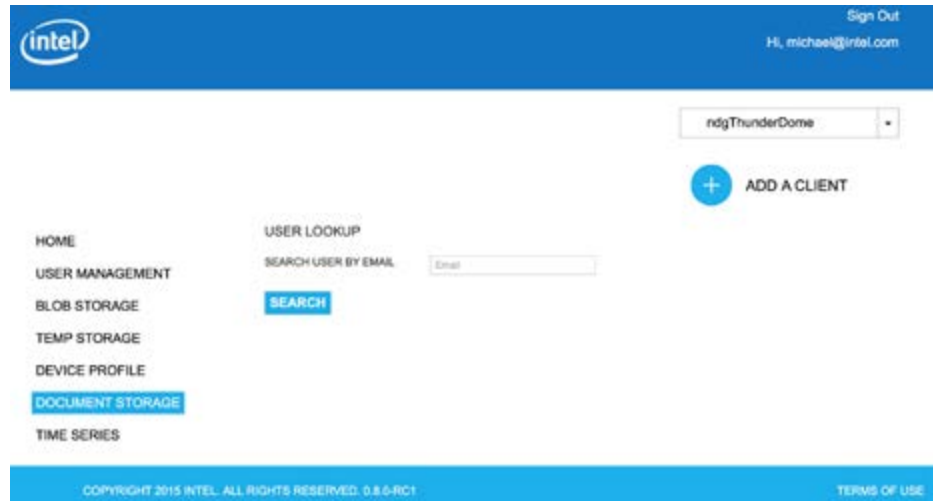
2.8 Searching Device Profiles

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.

The screenshot displays the Intel Software Platform for Curie Developer Portal Administrator's Guide interface. At the top, the Intel logo is on the left, and a 'Sign Out' link with the email 'HL_michael@intel.com' is on the right. Below the header, there is a dropdown menu showing 'ndgThunderDome' and a button with a plus sign and the text 'ADD A CLIENT'. The main content area features a sidebar on the left with navigation links: HOME, USER MANAGEMENT, QA/TH, BLOB STORAGE, TEMP STORAGE, DEVICE PROFILE (highlighted), DOCUMENT STORAGE, and TIME SERIES. The main content area has a section titled 'DEVICE PROFILE' with a sub-section 'SEARCH USER BY EMAIL'. This section includes a text input field labeled 'Email' and a blue 'SEARCH' button. At the bottom of the page, there is a footer with the text 'COPYRIGHT 2015 INTEL. ALL RIGHTS RESERVED. S&D-RC1' on the left and a 'TERMS OF USE' link on the right.

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 Software Platform for Curie Developer Portal interface. At the top, there is a blue header with the Intel logo on the left and a 'Sign Out' link with the email 'H6, michael@intel.com' on the right. Below the header, there is 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 navigation menu, there is a 'TIME SERIES' section. It contains a 'START' input field, an 'END' input field, and a 'SEARCH USER BY EMAIL' input field with a 'SEARCH' button. Below the search fields, there is a 'SEARCH RESULTS' section with a 'USERS FOUND' label and a table with columns: USER EMAIL, USER ID, CREDENTIAL TYPE, and an empty column. Below the search results, there is a 'RAW DATA' section with a table with columns: TIMESTAMP, DEVICE ID, EVENT TYPE, and VALUE. At the bottom of the page, there is a blue footer with the text 'COPYRIGHT 2015 INTEL. ALL RIGHTS RESERVED. 0.8.0-RC1' and a 'TERMS OF USE' link.

USER EMAIL	USER ID	CREDENTIAL TYPE	
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TIMESTAMP	DEVICE ID	EVENT TYPE	VALUE
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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 third-party license information.

- [“3.1 Amazon Software License” on page 28](#)
- [“3.2 Apache License” on page 30](#)
- [“3.3 Eclipse Public License” on page 33](#)
- [“3.4 GNU General Public License” on page 36](#)
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- [“3.7 MIT License” on page 43](#)
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