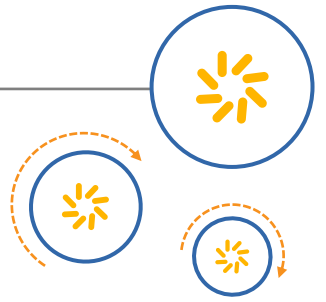




Qualcomm Technologies, Inc.



Device Characterization Platform v1.0.0

User Guide

DCP- Public-User-Guide-v1.0.0

October 10, 2019

Revision history

Revision	Date	Description
A	October 2019	Initial release

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1. Introduction

Device Characterization Platform (DCP) is a platform for authorized users to characterize devices based on their IMEI by querying GSMA IMEI database. It fetches information associated with an IMEI from GSMA IMEI database and displays to user. It gives option to user to report counterfeit device if its TAC part of IMEI is not approved by GSMA or characteristics retrieved from GSMA IMEI database does not match with physical device.

1.1. Purpose

This document is intended to give assistance to the user(s) to use the Device Characterization Platform (DCP).

1.2. Supported Desktop Browsers

Table 1- Supported Desktop Browsers

Name	Version
Internet Explorer	11.0
Firefox 52.5 ESR	57.0
Chrome	63.0
Safari	11.0
Edge	41.16299

1.3. Supported Mobile Browsers

Table 2- Supported Mobile Browsers

Name	Version
Chrome	63.0
UC Browser	11.5
Opera(Android)	44.1
Opera(iOS)	16.0.7
Safari	11.1
Samsung Internet	6.2
Android	4.1.x - 4.3

1.4. Definitions, Acronyms, and Abbreviations

Table 3- Definitions, Acronyms, and Abbreviations

Term	Definition
DCP	Device Characterization Platform
TAC	Type Allocation Code
IMEI	International Mobile Equipment Identity

2. System Description

Table 4-System Description

Feature/Sections	Description
Login Screen	<ul style="list-style-type: none">In order to gain access to information and functionality, user first needs to enter his/her credentials on login screen.
Portal Sections	<p>The portal is divided into following sections.</p> <ul style="list-style-type: none">Header Header section displays name of the system, and language change option with logout functionalityNavigation Panel Navigation Panel contains main navigation menu through which user can navigate the whole systemMain Content Area Main Content Area contains all the content to be displayed and actions to be performed for respective featureFooter Footer contains the copyright statement
Profile Screen	<ul style="list-style-type: none">Display details (i.e. First Name, Last Name and Email Address), of the user and allows user to edit/change the information and password.
IMEI Search	<ul style="list-style-type: none">Allows user to enter IMEI to fetch details from GSMA IMEI database
Searched Results	<ul style="list-style-type: none">Displays the following information (i.e. Device ID, Manufacturer, Equipment Type, Brand Name, Model Name, Marketing Name, Internal Model Name, TAC Approved Date, Device Certify Body, Radio Interface, Operating System, SIM Support, Bluetooth Support, and WLAN Support) of the device in a table.

Feature/Sections	Description
Counterfeit Device Details Form	<p>Takes the details of the actual device as input. Form contains the following input fields.</p> <ul style="list-style-type: none"> • Mobile Phone Brand Takes the brand name of the device as input. • Store Name Takes the name of the store (i.e. From where the user purchased the device) as input. • Model Name Takes the model number of the device as input. • Address Takes the user's address as input. • Description Takes the description of the device (i.e. color, size etc.) as input. • Choose file Allows user to upload the images of the device.
My Activity	<ul style="list-style-type: none"> • Allows user to view his/her own activity logs (i.e. User Device (web, mobile), Checking Method(auto, manual), IMEI Number, Result Status(found/not found), Results Matched(yes/no), User Name, Created At).
App Download	<ul style="list-style-type: none"> • Allows user to download the mobile app by accepting end user license agreement.
Feedbacks	<ul style="list-style-type: none"> • Allows user to submit feedback.
Language Change	<ul style="list-style-type: none"> • Facilitates user to select any language (English, Vietnamese) for the system.

3. System Navigation

3.1. Registration

1. To access the system a new user first needs to sign up, click on the “Register Now” link.

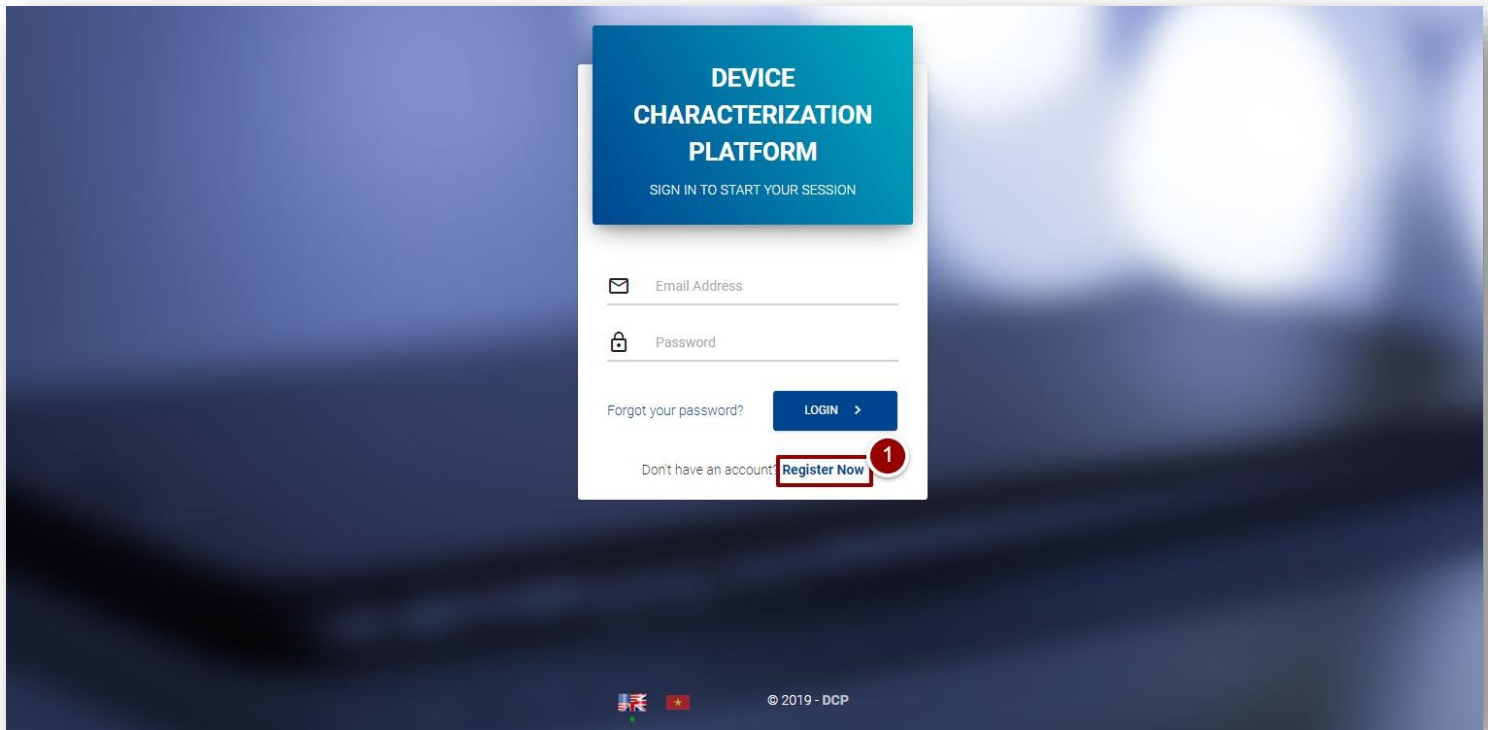


Figure 1-Registration Link

A new page will appear that displays the registration form.

2. Enter required information (i.e. First Name, Last Name, Email, and Password) in respective fields.
3. Click on “Register” button.

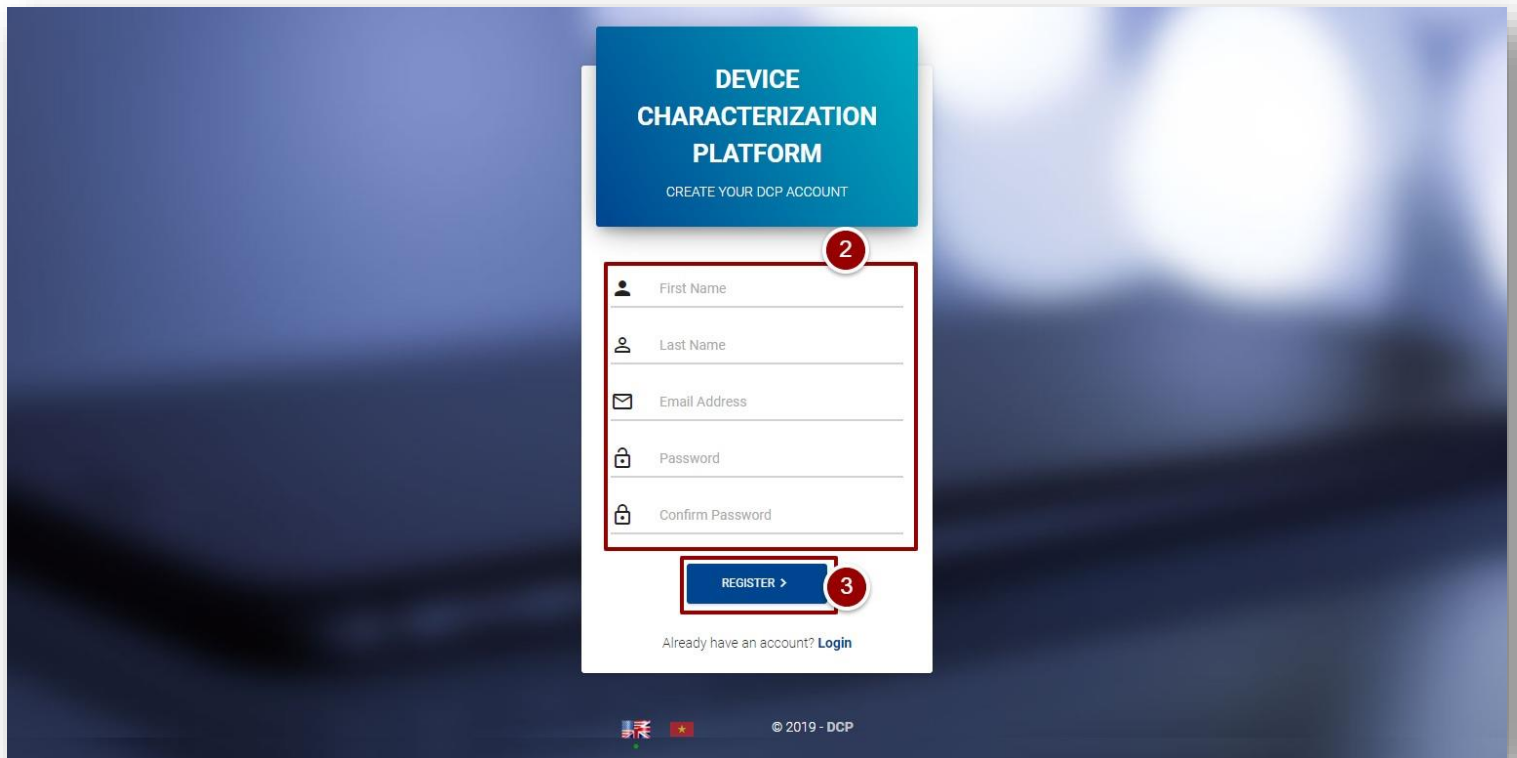
The image shows a registration form for the 'DEVICE CHARACTERIZATION PLATFORM'. The form is titled 'CREATE YOUR DCP ACCOUNT'. It contains five input fields: 'First Name', 'Last Name', 'Email Address', 'Password', and 'Confirm Password'. Each field has a corresponding icon (person, person, envelope, lock, and lock respectively). A red box highlights the entire form area, with a red circle containing the number '2' next to it. Below the form is a blue button labeled 'REGISTER >'. A red box highlights this button, with a red circle containing the number '3' next to it. Below the button, there is a link that says 'Already have an account? Login'. At the bottom of the page, there are flags for the United Kingdom and the United States, and a copyright notice '© 2019 - DCP'.

Figure 2-Registration Form

Note: New user cannot access the system until admin user will approve registration request.

3.2. Login Screen

1. Enter username and password in respective fields.
2. Click on “Log in” button.

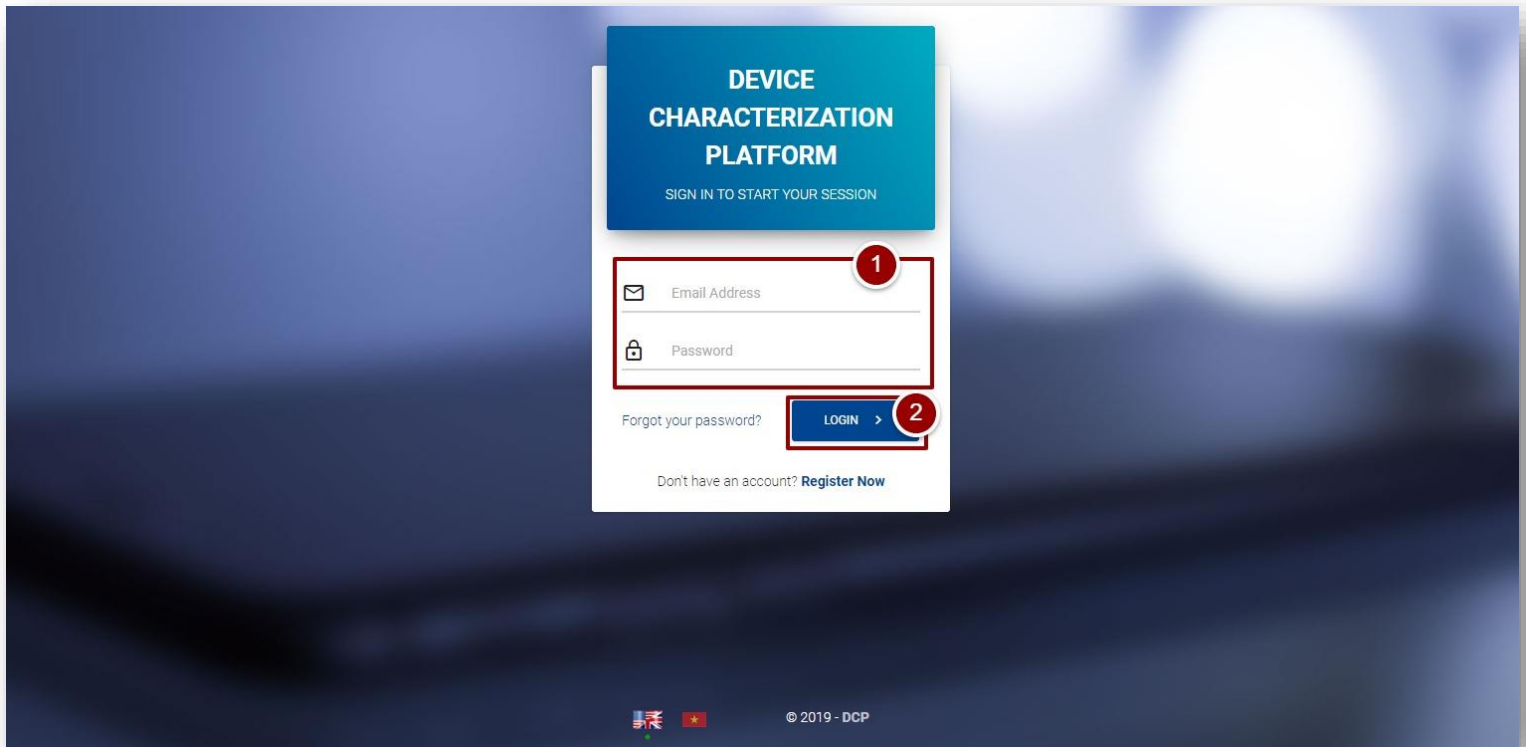


Figure 3-Login Screen

By clicking on “login” button, a welcoming popup will appear on the screen click on “Close” button and then a license agreement will appear for the new user(s). After accepting the license agreement user will able to navigate the system.

3. To accept the license, click on checkbox.
4. Click on “Continue” button.

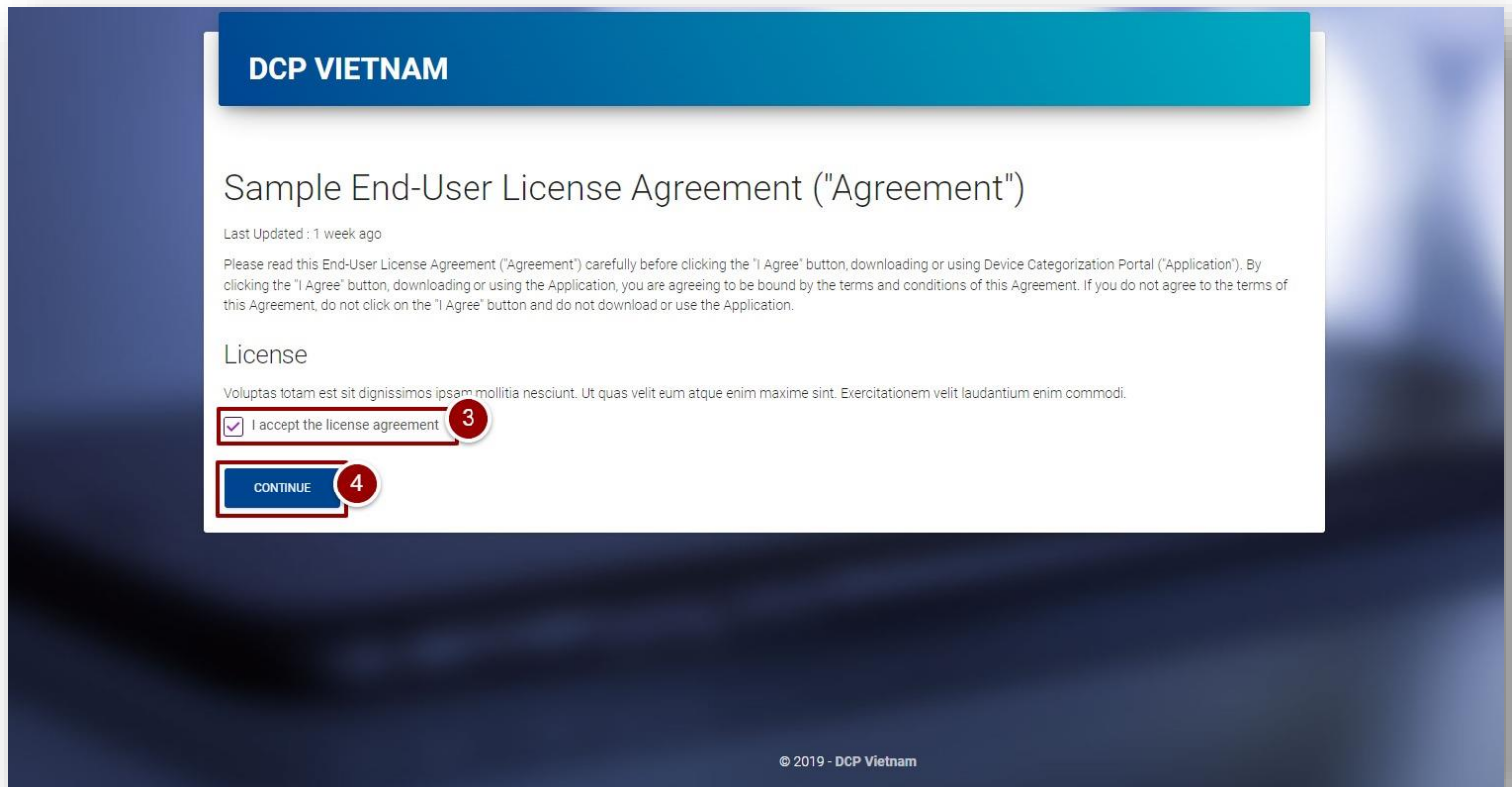


Figure 4-License Agreement for New Users

Note: This license agreement will appear only for once when the user sign in for first time.

3.3. Portal Sections

The portal screen is divided into following sections.

1. **Header** section displays the name of the system, name of the logged in user with logout functionality.
2. **Main Navigation Panel** helps user to navigate through system.
3. **Main Content Area** contains all relevant information related to the respective feature/option.
4. **Footer** contains the version and copyrights statement.

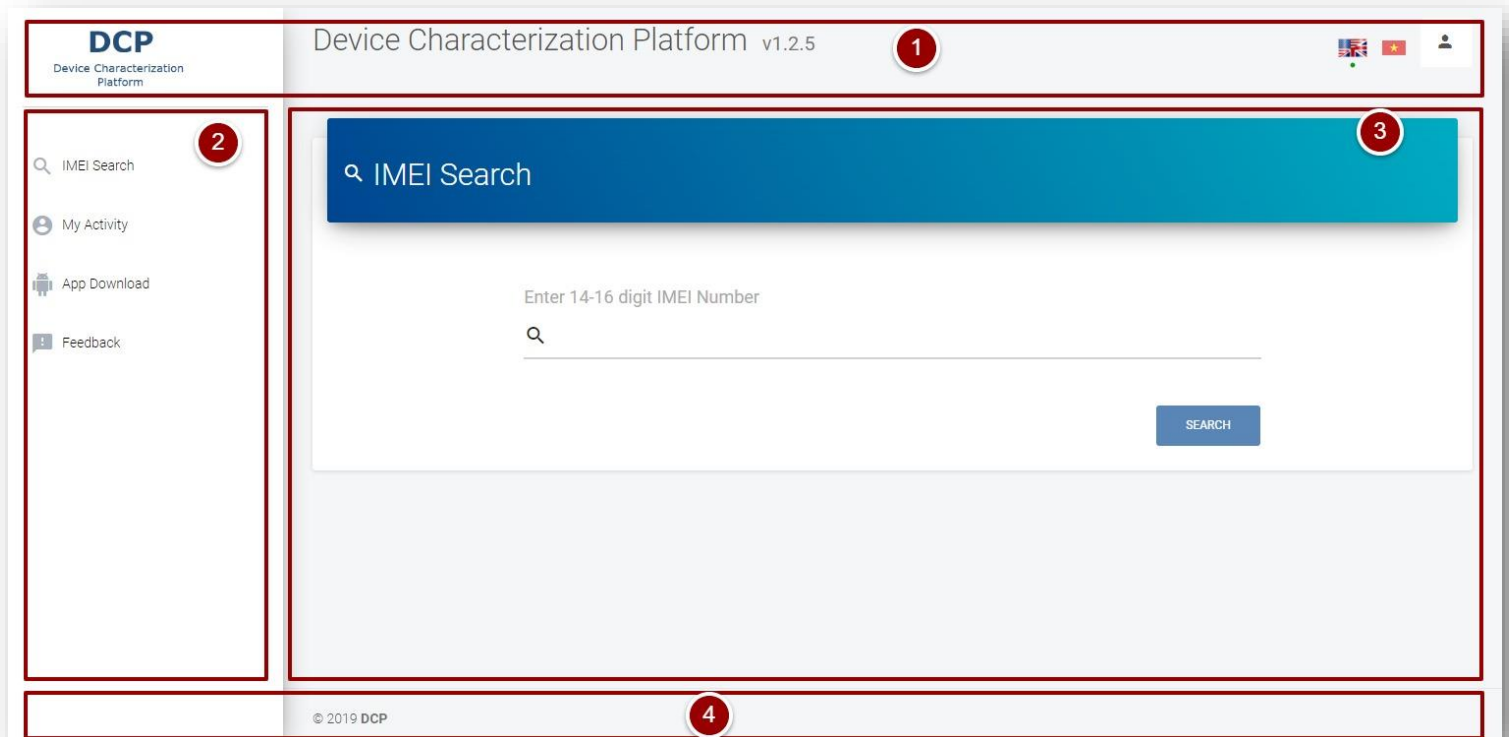


Figure 5-Portal Sections

3.4. Edit Profile

1. To edit his/her own profile, click on the profile icon on top right side of screen and select “Profile” option.

A page will appear that contains user information (i.e. First Name, Last Name, and Email Address).

2. Click on “Edit Details” button.

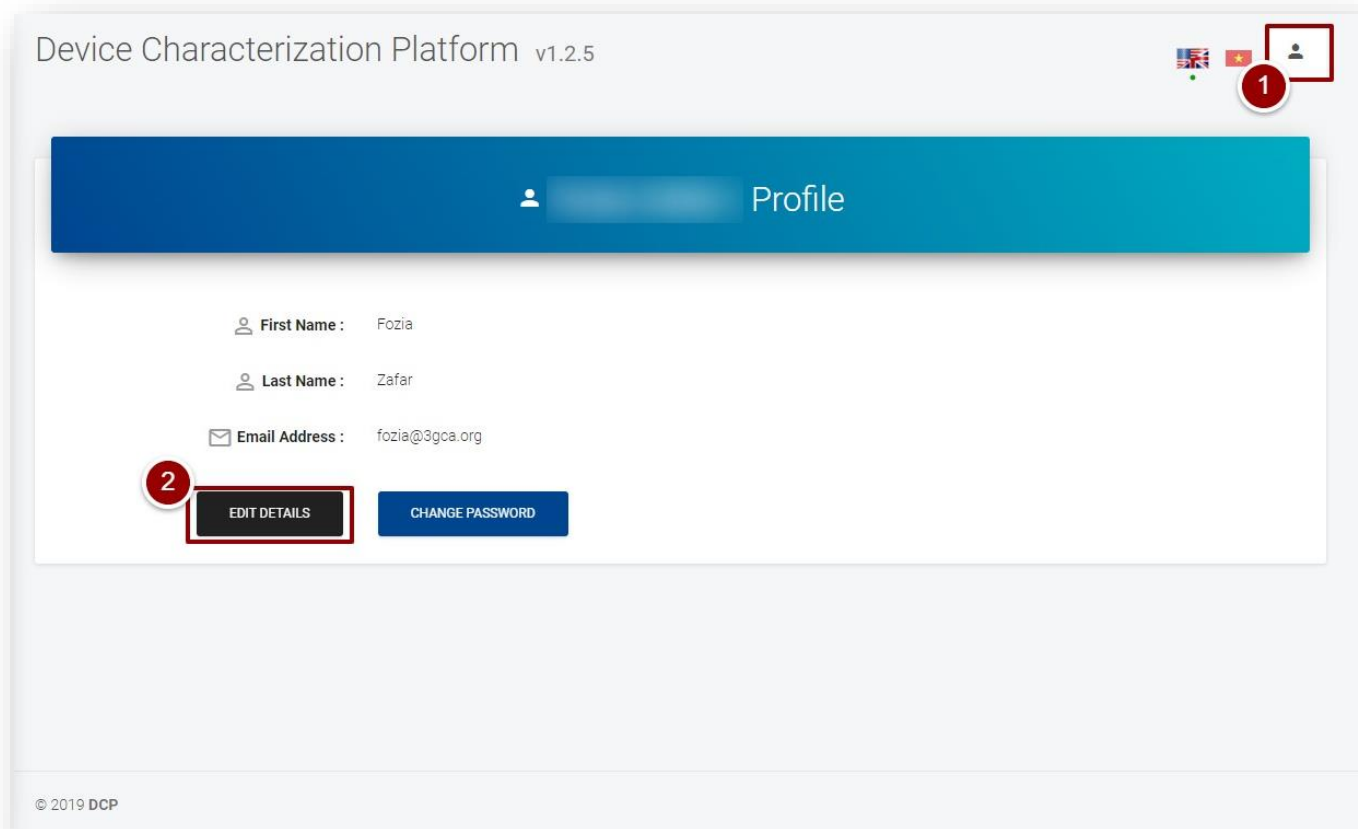


Figure 6-Edit Profile

By clicking on “Edit Details” button a page will appear that display details of the user.

3. Edit the details and click on “Update” button.

Device Characterization Platform v1.2.5

EDIT
EDIT YOUR DCP VIETNAM PROFILE

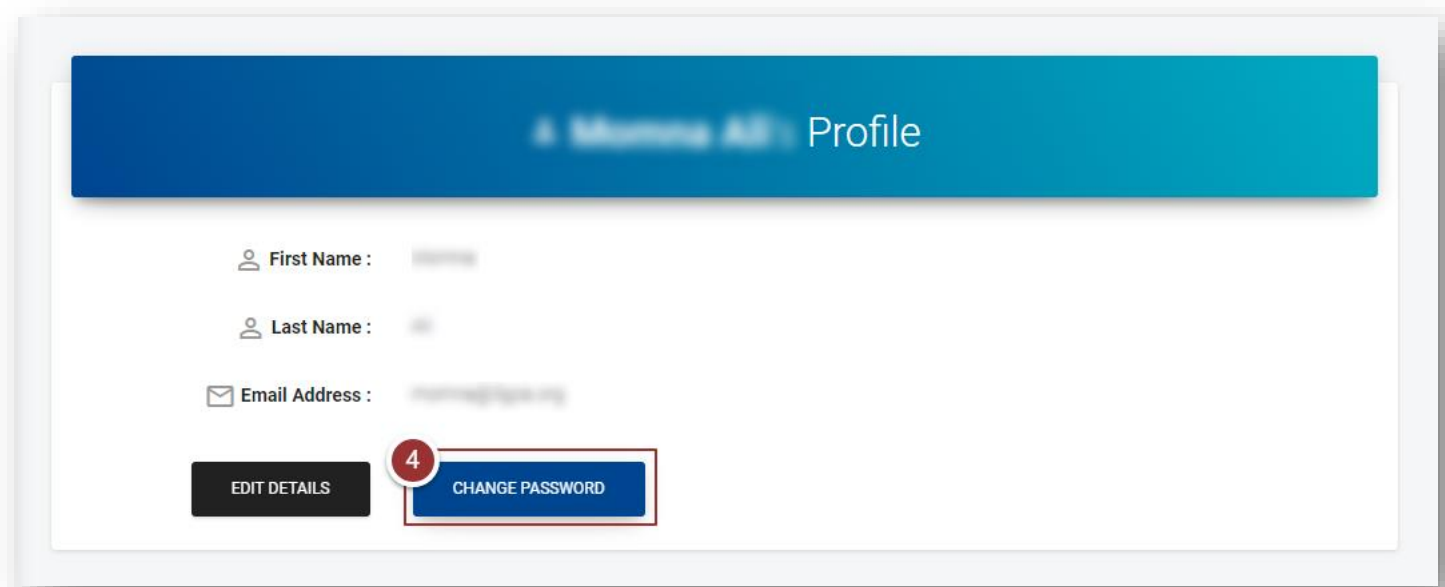
[← Back](#)

UPDATE

© 2019 DCP

Figure 7-Edit Profile

4. To change the password, click on “Change Password” button.



The image shows a user profile form titled "Profile" with a blue header. Below the header, there are three input fields: "First Name" with a person icon, "Last Name" with a person icon, and "Email Address" with an envelope icon. At the bottom of the form, there are two buttons: "EDIT DETAILS" (black) and "CHANGE PASSWORD" (blue). A red circle with the number "4" is placed over the "CHANGE PASSWORD" button, and a red rectangular box highlights the button itself.

Figure 8-Change Password

By clicking on “Change Password” button, a page will appear that contains input fields.

5. Enter the old and new password in the respective fields.
6. Click on “Update” button.

EDIT PASSWORD

CHANGE YOUR DCP VIETNAM PASSWORD

Old Password

New Password

Retype New Password

[← Back](#)

UPDATE

Figure 9-Change Password

3.5. IMEI Search

1. To search a particular IMEI, click on “IMEI Search” link.
2. Enter IMEI in the respective field.
Note: The length of the IMEI should be between 14-16 characters.
3. Click on “Search” button.

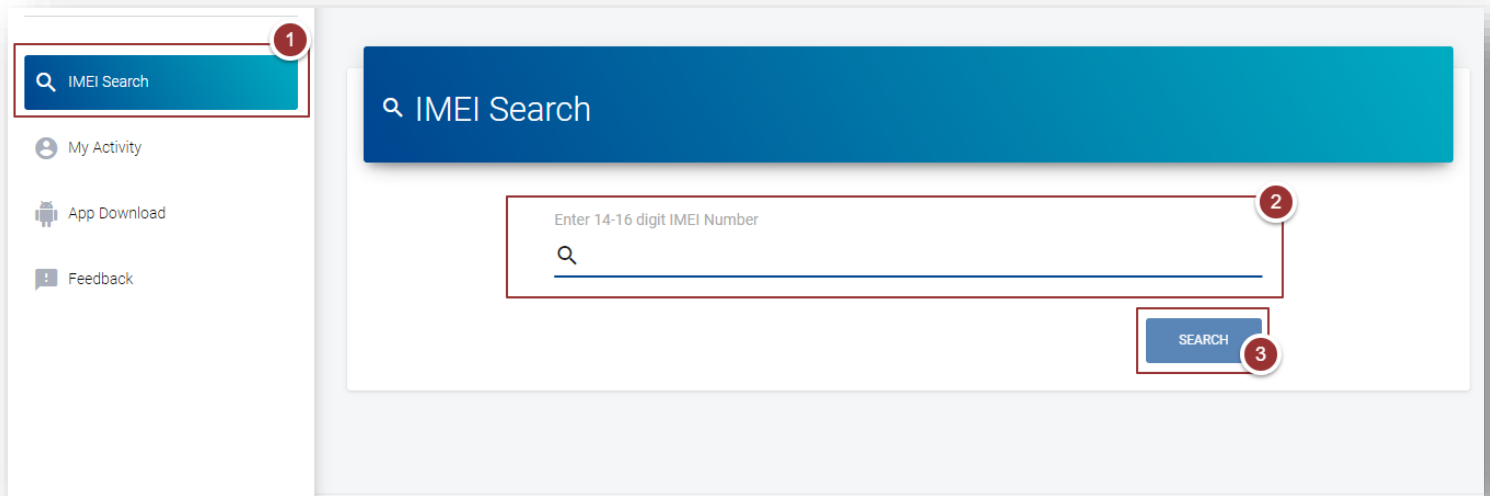


Figure 10-IMEI Search

By clicking on “Search” button a, popup will appear that contain entered IMEI to be verified.

4. Verify the IMEI and click on “OK” button.

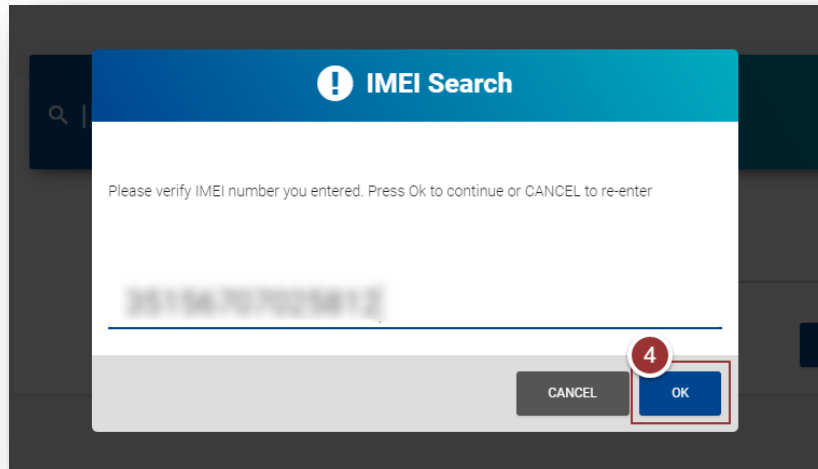


Figure 11-IMEI Search

The details of the searched IMEI (i.e. Device ID, Manufacturer, Equipment Type etc.) will display in a table.

🔍 IMEI Search

Enter 14-16 digit IMEI Number

🔍

0000000000000000

SEARCH

Results found

Device ID	0000000000000000
Manufacturer	Samsung Mobile
Equipment Type	Smartphone
Brand Name	Samsung
Model Name	SM-G900M (G900)
Marketing Name	Samsung SM-G900M (G900)
Internal Model Name	Samsung SM-G900M (G900)
TAC Approved Date	2014-01-01
Device Certify Body	Not known
Radio Interface	4G LTE
Operating System	Android
Sim Support	Yes
NFC Support	No
Bluetooth Support	Yes
WLAN Support	Yes

Are the results match your device?

YES?

NO? REPORT DEVICE

Figure 12-Searched Results

3.5.1. Matched Devices

Note: Repeat steps 1-4 as per section 3.5

If the searched details of the device are matched with user's device then user can mark the device as matched device.

5. To mark the device as matched, click on “Yes” button

🔍 IMEI Search

Enter 14-16 digit IMEI Number

🔍

0000000000000000

SEARCH

Results found

Device ID	0000000000000000
Manufacturer	Samsung Mobile
Equipment Type	Smartphone
Brand Name	Samsung
Model Name	SM-G900M
Marketing Name	Samsung SM-G900M
Internal Model Name	Samsung SM-G900M
TAC Approved Date	2014-01-01
Device Certify Body	Not known
Radio Interface	4G LTE
Operating System	Android
Sim Support	Yes
NFC Support	No
Bluetooth Support	Yes
WLAN Support	Yes

5

Are the results match your device?

YES

NO? REPORT DEVICE

Figure 13-Matched Devices

By clicking on “Yes” button, a popup window will appear that displays the confirmation message.

6. Click on “OK” button to proceed further

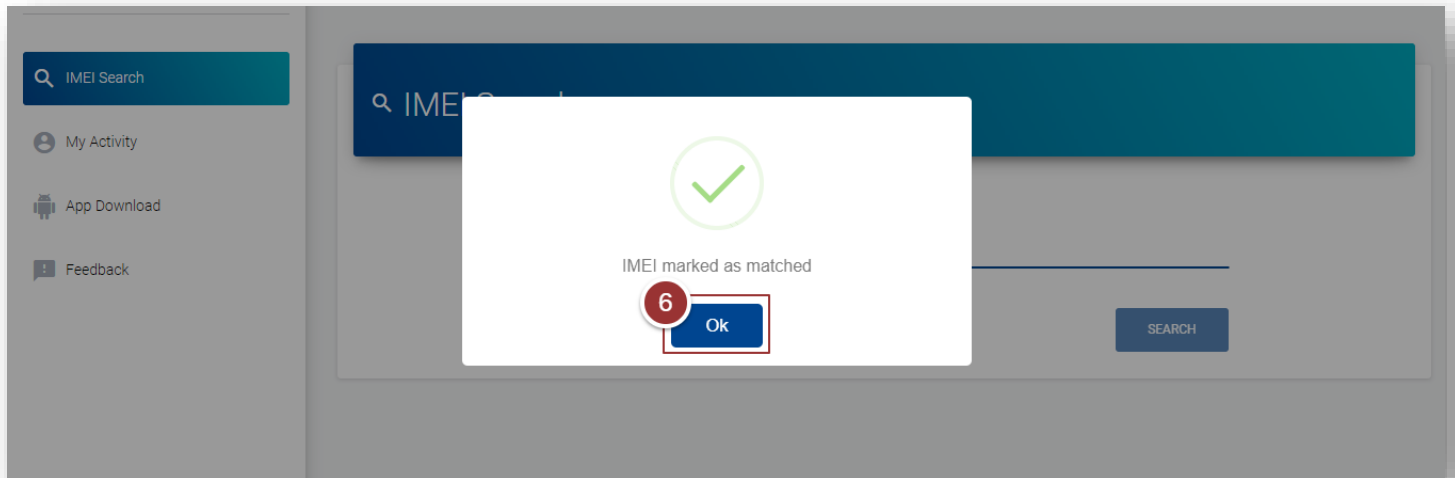


Figure 14-Confirmation Message

3.5.2. Counterfeit Devices

Note: repeat steps 1-4 as per section 3.5

If the searched details of device are not found/not matched with user's device then user can report the device as counterfeit device.

5. To report IMEI as counterfeit, click on "Report Now" button

The screenshot shows the 'IMEI Search' interface. At the top, there is a search bar with the text 'IMEI Search' and a magnifying glass icon. Below the search bar, there is a prompt 'Enter 14-16 digit IMEI Number' and a search input field with a magnifying glass icon. A 'SEARCH' button is located to the right of the input field. Below the search bar, the section 'Results found' displays a table with device details. At the bottom of the results, there is a question 'Are the results match your device?' with two buttons: 'YES?' and 'NO? REPORT DEVICE'. The 'NO? REPORT DEVICE' button is highlighted with a red circle and the number 5.

Device ID	3512345678901234
Manufacturer	Samsung Mobile
Equipment Type	Smartphone
Brand Name	Samsung
Model Name	SM-G930V
Marketing Name	Samsung Galaxy S6
Internal Model Name	Samsung SM-G930V
TAC Approved Date	2014-01-01
Device Certify Body	VeriSign
Radio Interface	LTE
Operating System	Android
Sim Support	Yes
NFC Support	Yes
Bluetooth Support	Yes
WLAN Support	Yes

Are the results match your device?

Figure 15-Counterfeit Devices

By clicking on “Report Now” button, a form will appear to get actual details of the device.

6. Enter the required information (i.e. Mobile Phone Brand, Model Name, Store Name, Address(user’s address), Description and images) in the respective fields

Note: User can upload maximum 5 images in (.png, .jpg, .gif .jpeg) format.

7. Click on “Submit” button

DCP

3515670/4025812 Not matched

6

Report Mobile phone

? Mobile Phone Brand

? Model Name

? Store Name

? Address

? Description

? No file selected

Choose File

* Supported formats are .png, .jpg, .jpeg, .gif (max limit 5 images).

* Max Image size is 2 MBs

7

SUBMIT

Figure 16-Counterfeit Device Details

By clicking on “Submit” button, a popup window will appear that displays the confirmation message.

8. Click on “OK” button to proceed further

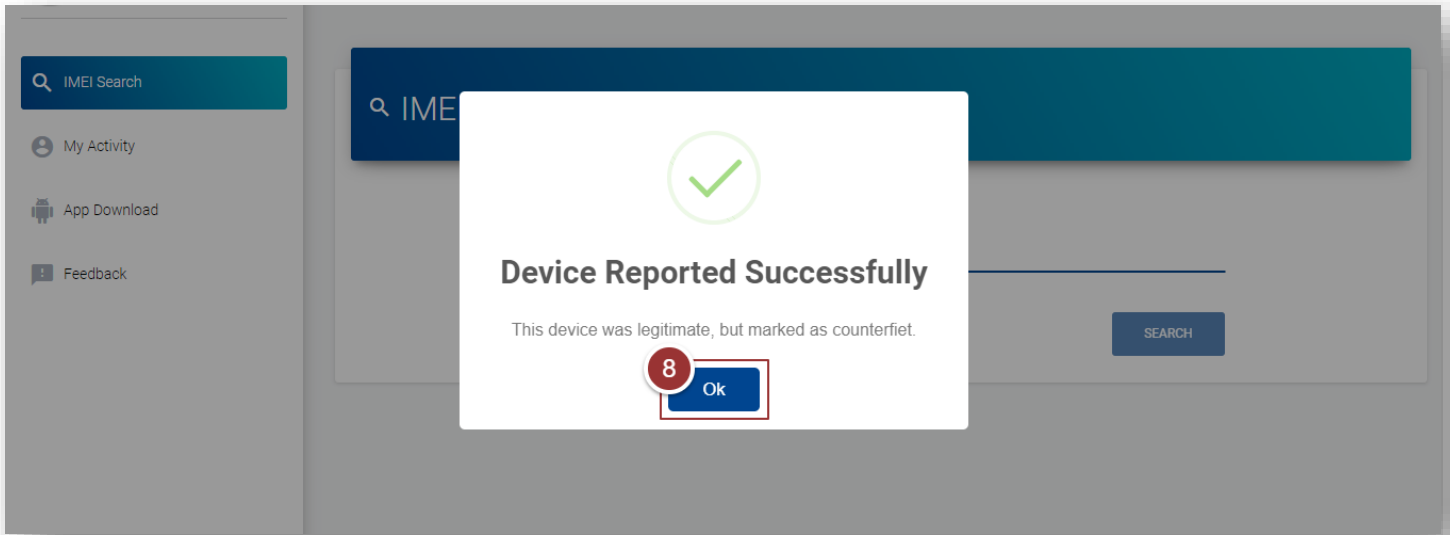


Figure 17-Confirmation Message

3.6. My Activity

1. To view activity logs (i.e. total number of IMEIs searched by the user), click on the “My Activity” link

A page will appear in the right content area that displays all activity details (i.e. User Device (web, mobile), Checking Method (auto, manual), IMEI Number, Result Status (found/not found), Results Matched(yes/no), User Name, Created At).

	User Device	Checking Method	IMEI Number	Result	Results Matched	User Name	Created At
1	web	auto	867888080000000	Found	No	admin	2018-12-03 07:06:34
2	web	auto	867888080000000	Found	No	admin	2018-12-03 06:40:53
3	web	auto	867888080000000	Found	No	admin	2018-12-03 06:29:33

Figure 18-My Activity

3.7. App download

1. To download mobile app, click on “App download” link

A license agreement will appear in right content area. After accepting the license agreement user will be able to download the mobile app.

2. To accept the license agreement, click on checkbox

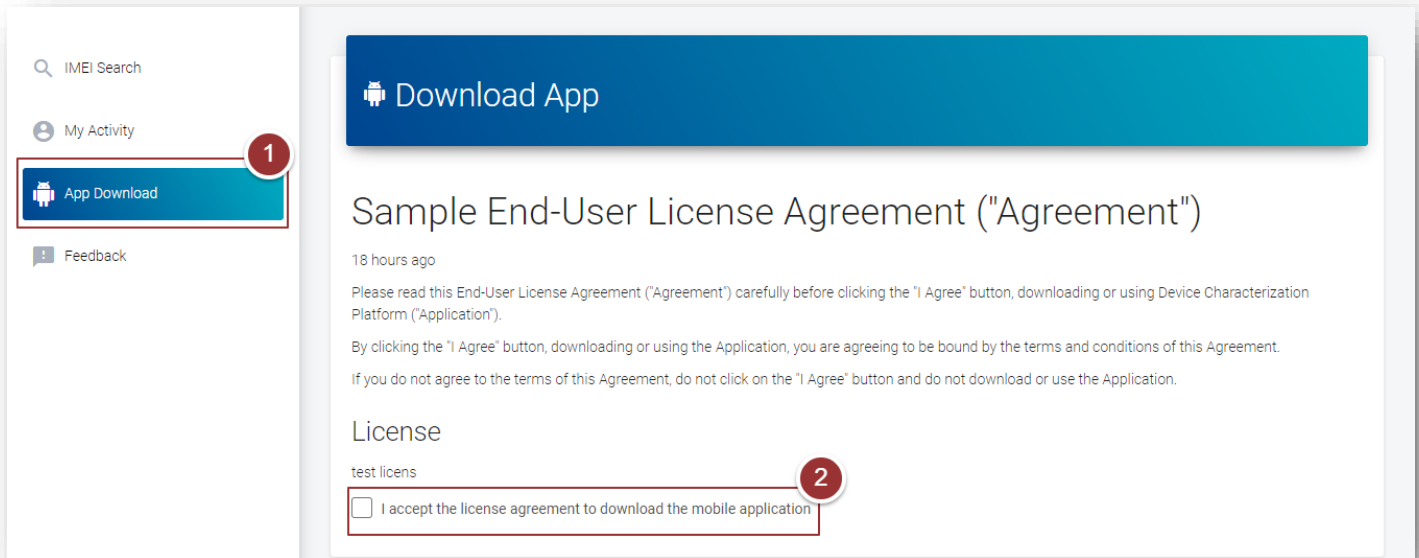


Figure 19-Download App

By clicking on checkbox, a button will appear on the page.

3. Click on "Download" button

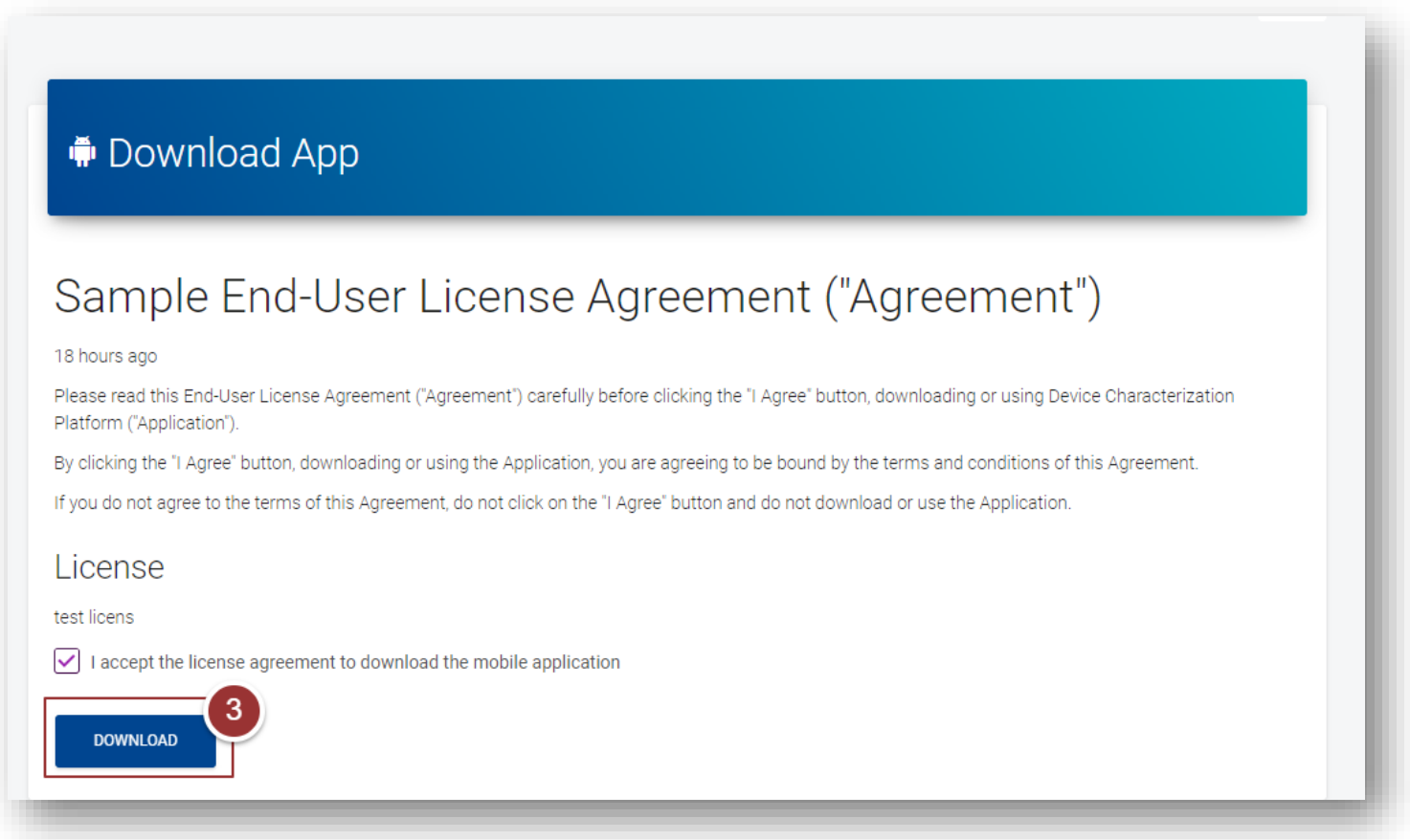


Figure 20-Download App

3.8. Feedback

1. To give feedback, click on “Feedbacks” link

A page will appear in right content area that contains the comment box.

2. Write down your comments/suggestions in comment box
3. Click on “Submit Feedback” button

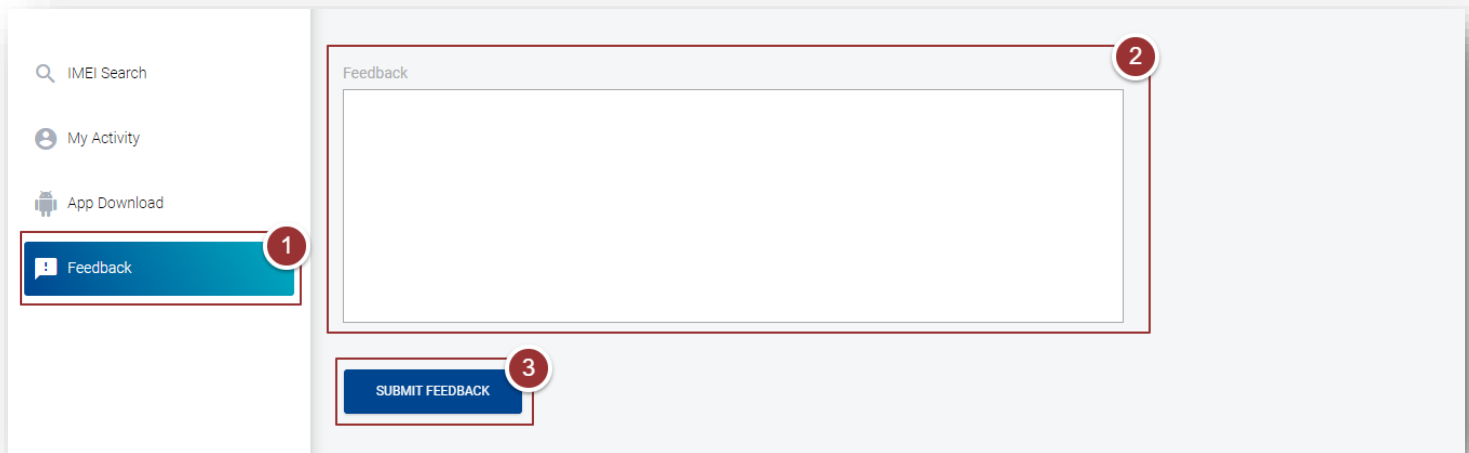


Figure 21-Feedbacks