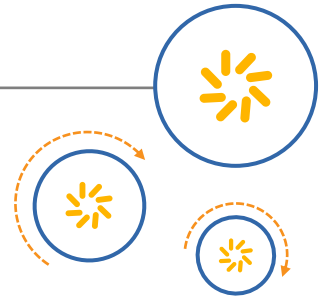




Qualcomm Technologies, Inc.



# Device Verification Subsystem 1.0.0

## User Guide (Authority Mobile App)

DVS-User-Guide-Authority-Mobile-App-1.0.0

June 19, 2018

## Revision history

Revision	Date	Description
A		Initial release

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# 1. Introduction

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The Device Verification Subsystem DVS mobile app is based on the subsystem of Device Identification, Registration and Blocking System (DIRBS) .It provides platform for Device Dealer(s), Mobile User(s) and Authorized User(s) to check and verify the status of IMEIs.

The Device Identification, Registration & Blocking System (DIRBS) is a country-wide system deployed in cooperation between the country regulator, operators in that country, and a technology partner that supports deployment. The system checks, identifies, and discourages non-compliant devices by verifying the installed base of devices currently active in a market and continuing to monitor as new devices are activated.

DIRBS can verify that:

- Devices have properly allocated identifiers and type approval
- Devices are not duplicated or stolen
- Device importation takes place through legal channels

## 1.1. Purpose

This document is intended to give assistance to the user to use the DVS mobile app.

## 1.2. Supported OS Versions

**Table 1-Supported OS Versions**

OS	Version
Android	4.1
iOS	9.0

## 1.3. Definitions, Acronyms, and Abbreviations

**Table 2-Definitions, Acronyms, and Abbreviations**

Term	Definition
DIRBS	Device Identification Registration and Blocking System
IAM	Identity Access Management
DVS	Device Verification Subsystem
MSISDN	Mobile Subscriber Integrated Services Directory Number
IMEI	International Mobile Equipment Identity

## 2. App Description

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**Table 3-System Description**

<b>Feature /Sections</b>	<b>Purpose</b>
Login Screen	<ul style="list-style-type: none"><li>• To access the app, authorized user first needs to enter his/her credentials on login page, this login page authenticate the user from IAM and redirects user to the DVS mobile app</li></ul>
Enter IMEI	<ul style="list-style-type: none"><li>• Takes the valid IMEI as input. Enter IMEI of device to be verified</li></ul>
Scan Barcode	<ul style="list-style-type: none"><li>• Allows user to scan barcode of the device</li></ul>

Feature /Sections	Purpose
Device Status	<p>Displays the complete status of the device in a table.</p> <ul style="list-style-type: none"> <li>• <b>IMEI</b> Displays the entered IMEI</li> <li>• <b>Brand</b> Displays the brand name of the device</li> <li>• <b>Model Name</b> Displays the model name of the device</li> <li>• <b>Model Number</b> Displays the model number of the device</li> <li>• <b>Manufacturer</b> Displays the name of the company/country where the device is manufactured</li> <li>• <b>Device Type</b> Displays the device type i.e. smartphone, tablet etc.</li> <li>• <b>Operating System</b> Displays the operating system of the device i.e. Android or iOS</li> <li>• <b>Radio access technology</b> Displays the radio access technology(s) of the device i.e. 2G, 3G, 4G, 5G etc.</li> <li>• <b>Registration Status</b> Displays the status of IMEI i.e. Registered, Pending registration, Not registered</li> <li>• <b>IMEI Compliance Status</b> Displays the status of IMEI i.e. Compliant, Non-Compliant</li> <li>• <b>Lost/stolen Status</b> Displays the status of IMEI i.e. Lost/ stolen (if applicable )</li> <li>• <b>Block as of Date</b> Displays the block date of the device</li> <li>• <b>Per-Condition Classification States</b> All classification states are configurable parameters (GSMA not found, Duplicate, Local Stolen, Duplicate Compound) are coming from the core</li> </ul>



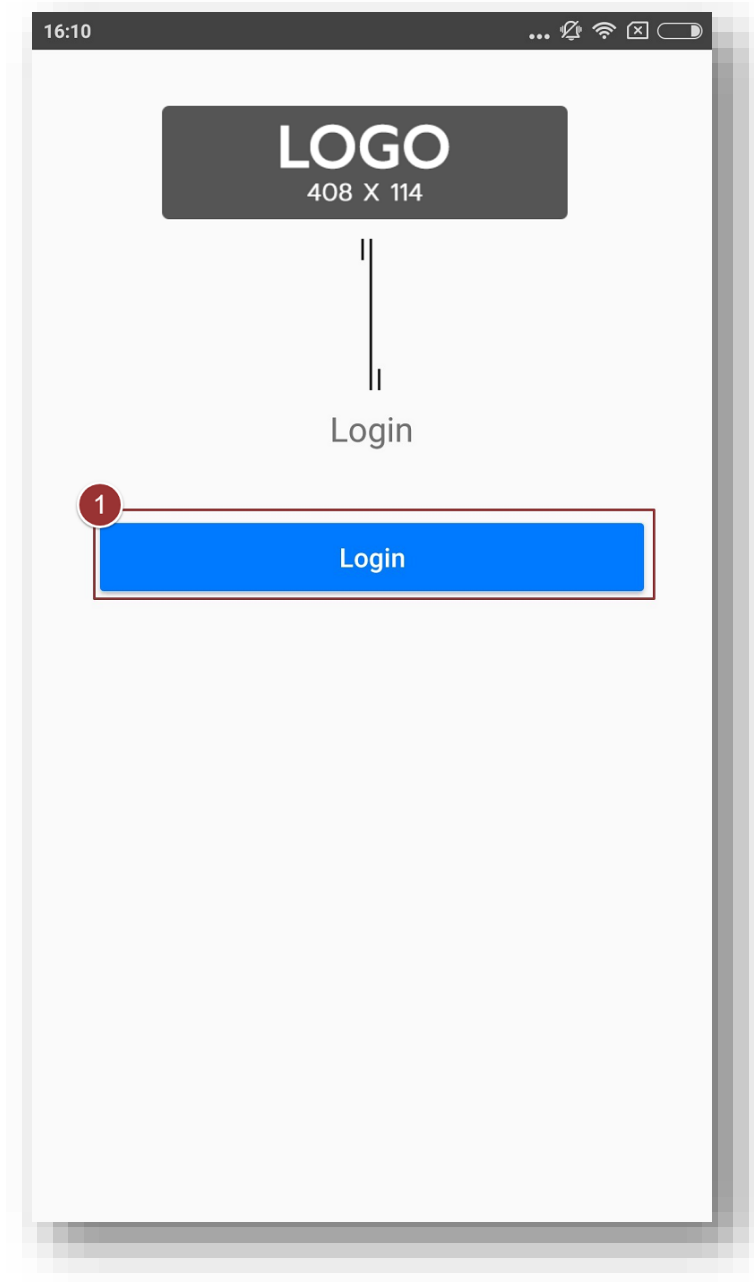
Feature /Sections	Purpose
Subscribers Seen with IMEI table	<ul style="list-style-type: none"><li>• Displays list of IMSI(s) and MSISDNs seen on the network with particular IMEI</li></ul>
Paired Subscribers table	<ul style="list-style-type: none"><li>• Displays list of last seen paired IMSI(s) with particular IMEI</li></ul>

## 3. App Navigation

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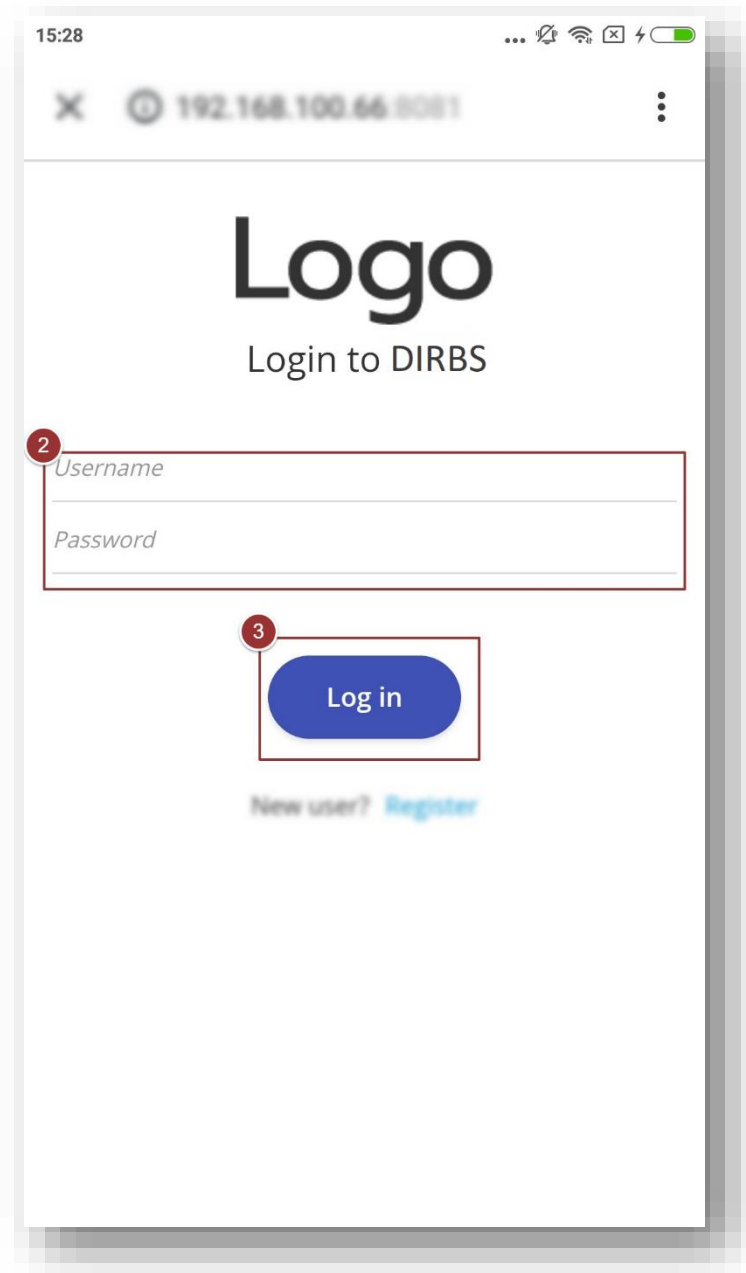
### 3.1. Log-In Screen

1. Click on the “login” button



**Figure 1-Login Screen**

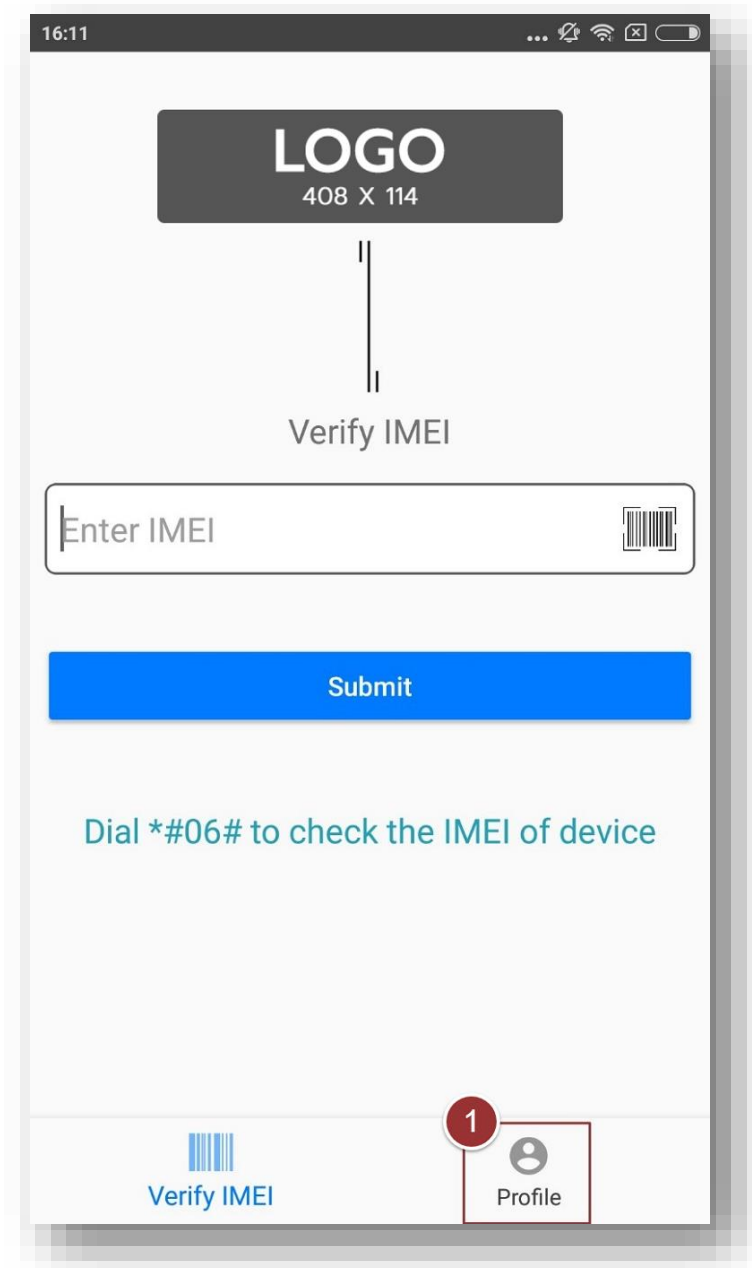
2. Now, enter the “Username” and “password”
3. Click on the “Login” button



**Figure 2-Enter Credentials**

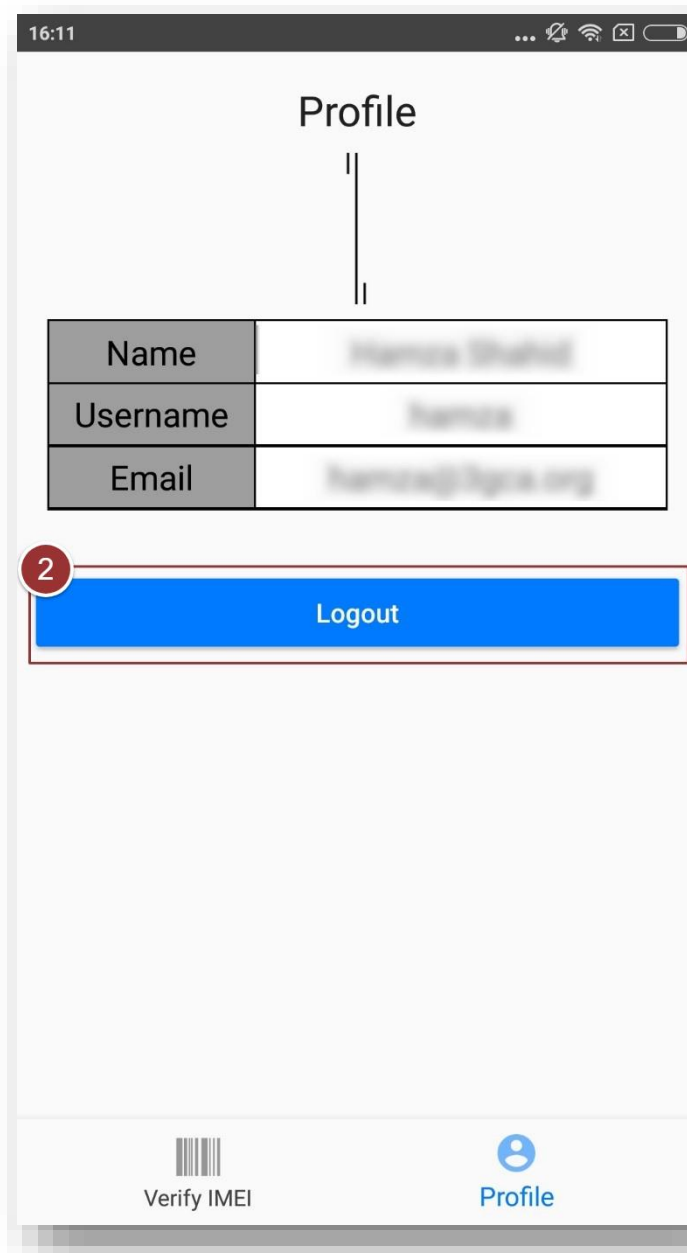
## 3.2. View Profile

1. To view profile of the user tap on the “Profile” icon



**Figure 3-Profile Icon**

- User information (i.e. Name, Username, and Email) will display in a table
2. To logout from the app tap on the “Logout” button



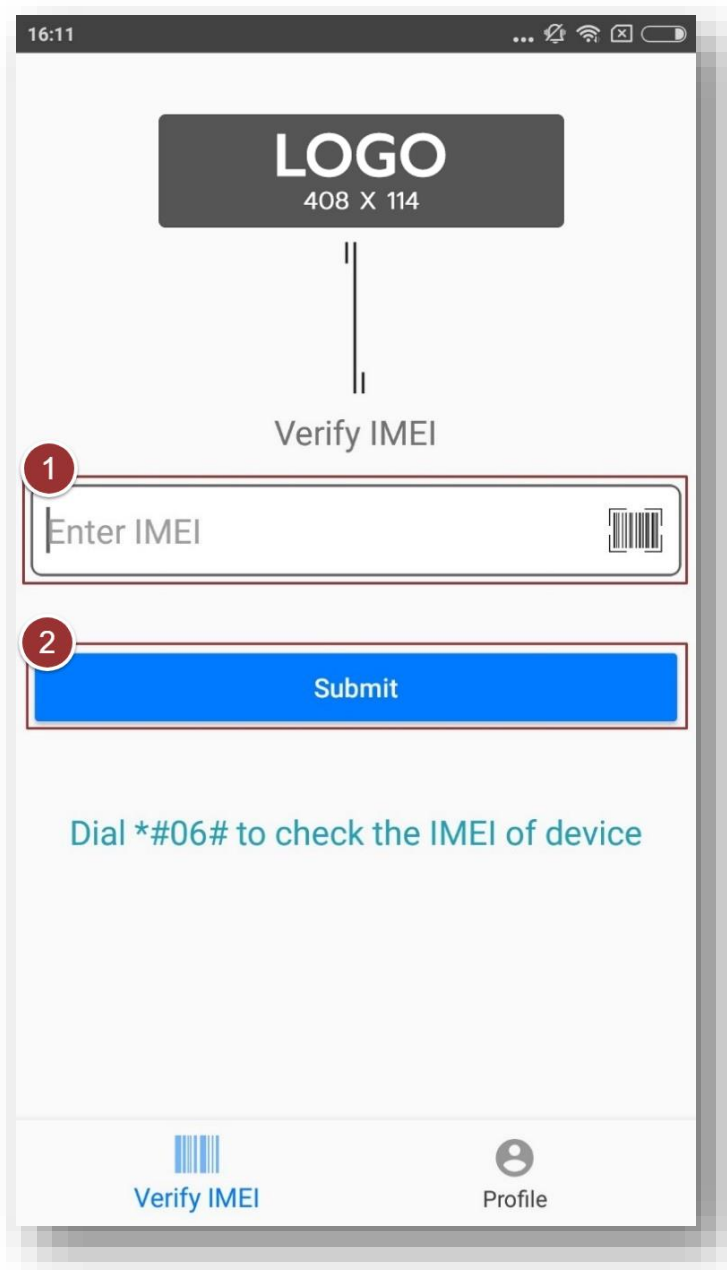
**Figure 4-Profile Table**

### 3.3. Enter IMEI

1. Enter the IMEI in the respective field

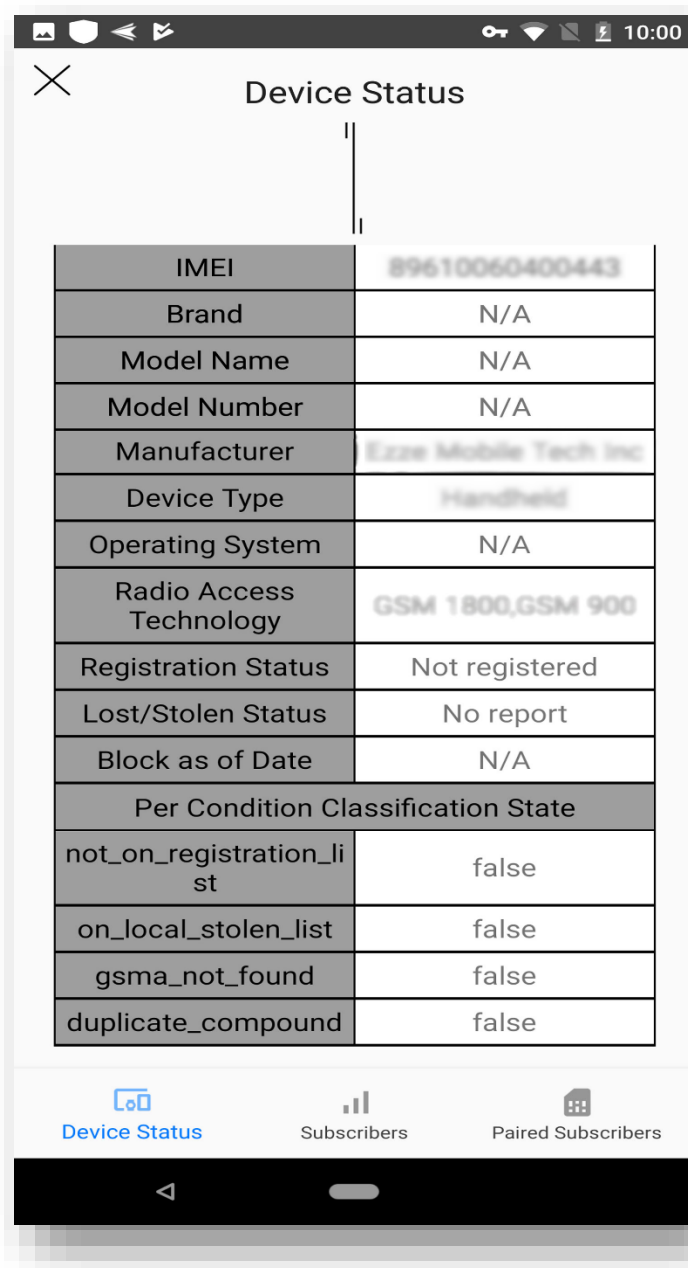
**Note:** IMEI can contain alphanumeric characters (0-9, A-F, a-f). The length of the IMEI should be between 14-16 characters

2. Tap on the “Submit” button



**Figure 5-Enter IMEI**

Status of the device will display in a table with details (i.e. IMEI, Brand, Model Name, IMEI Compliance Status etc.)



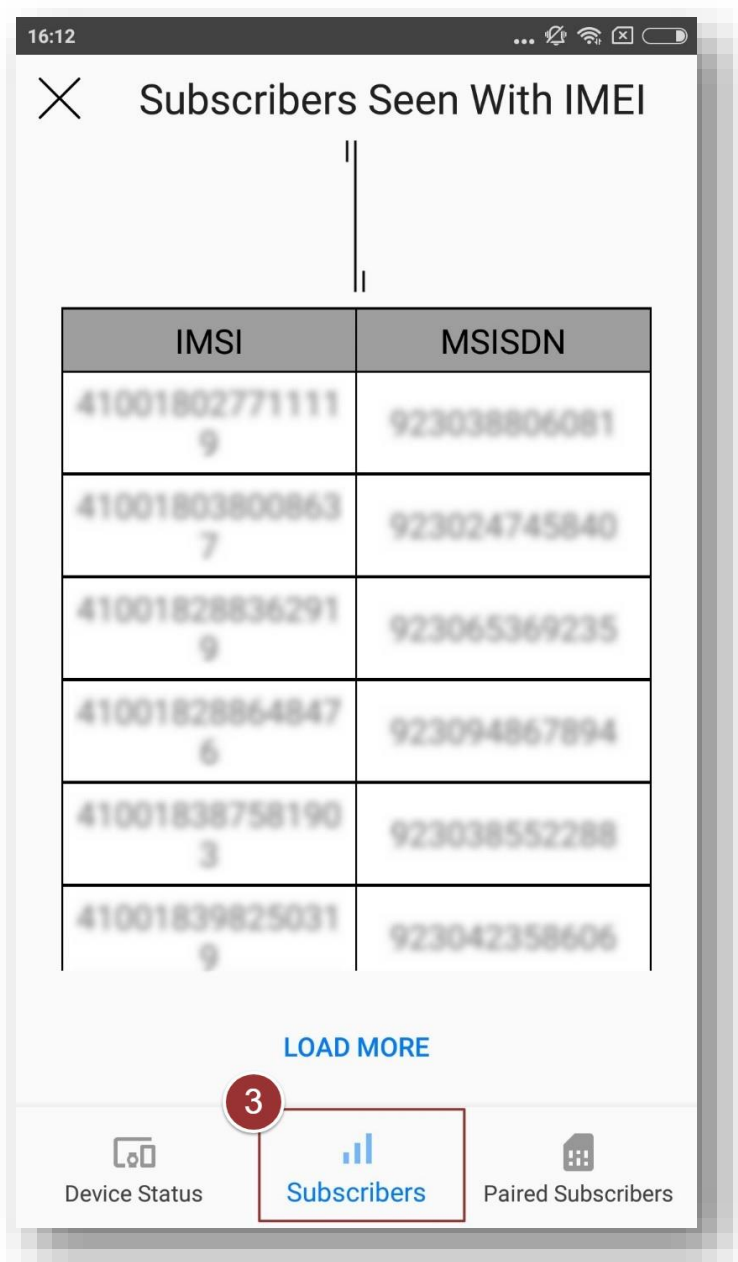
The screenshot shows the 'Device Status' screen in the Authority Mobile App. The screen features a table with the following data:

Device Status	
IMEI	89610060400443
Brand	N/A
Model Name	N/A
Model Number	N/A
Manufacturer	Ezze Mobile Tech Inc
Device Type	Handheld
Operating System	N/A
Radio Access Technology	GSM 1800,GSM 900
Registration Status	Not registered
Lost/Stolen Status	No report
Block as of Date	N/A
Per Condition Classification State	
not_on_registration_list	false
on_local_stolen_list	false
gsma_not_found	false
duplicate_compound	false

At the bottom of the screen is a navigation bar with three options: 'Device Status' (selected), 'Subscribers', and 'Paired Subscribers'.

**Figure 6-Device Status Table**

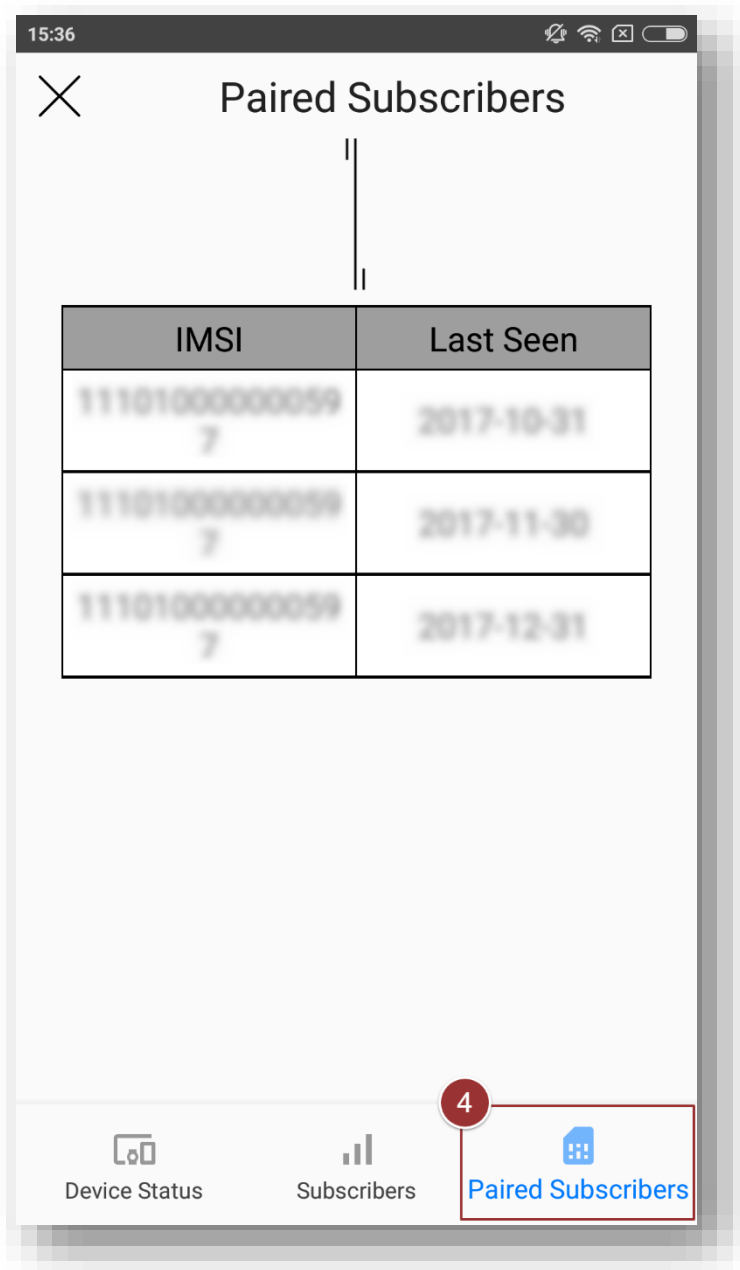
3. To see the IMSI(s) and MSISDN(s) seen with IMEI on the network, tap on the “Subscribers” icon



**Figure 7-Subscribers Seen With IMEI Table**



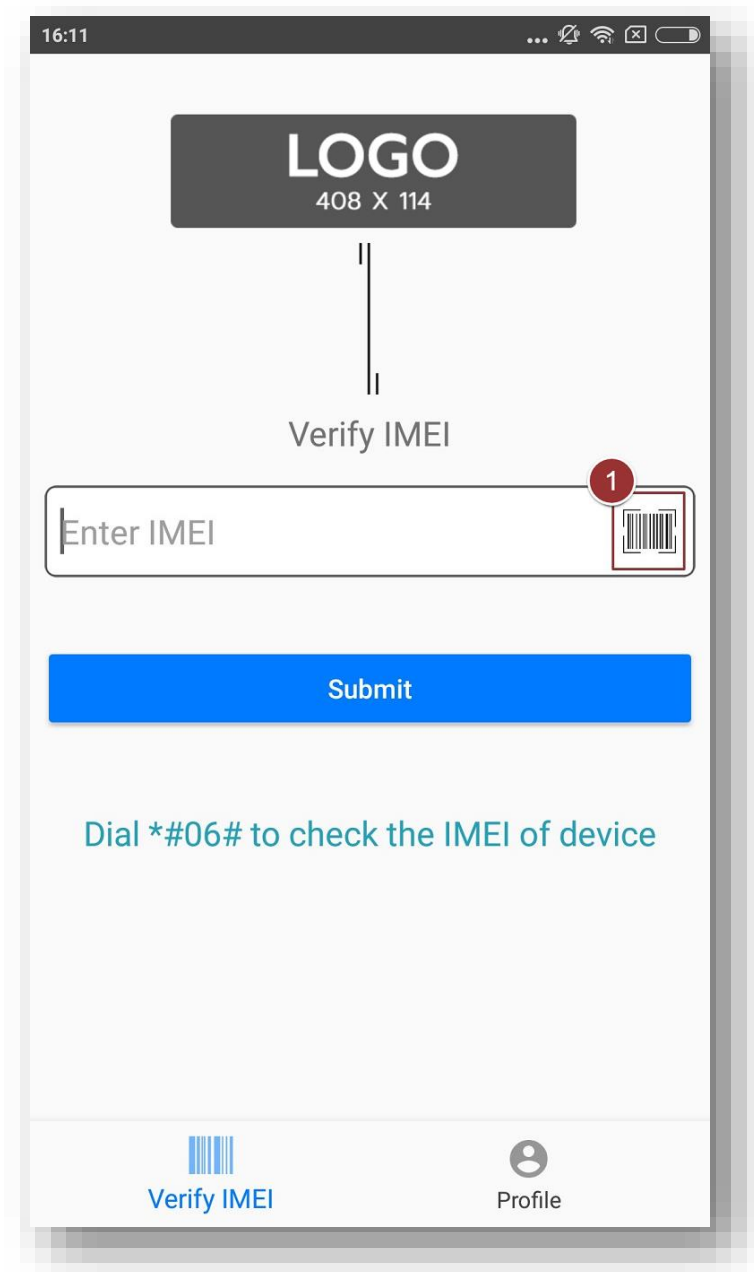
4. To see the last seen paired IMSI(s), tap on the “Paired Subscribers” icon



**Figure 8 Paired Subscribers Table**

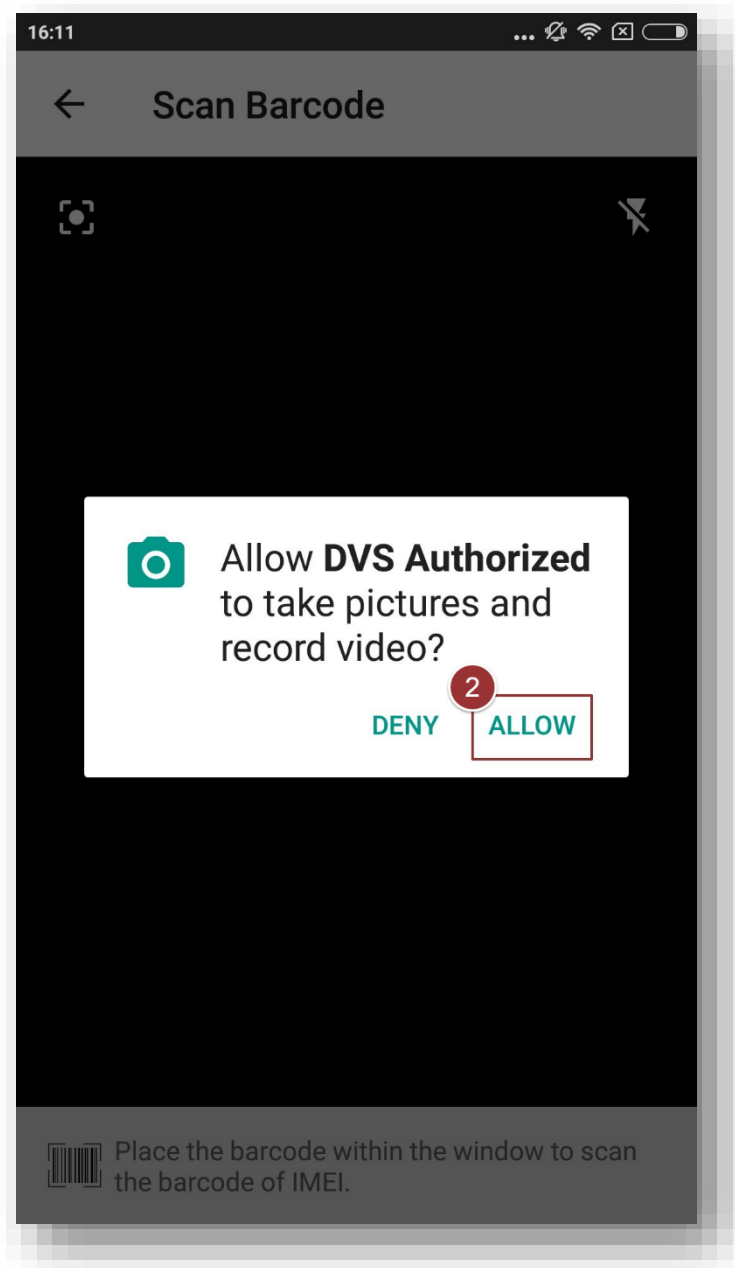
### 3.4. Scan Barcode

1. To scan the barcode, tap on the “Scan Barcode” icon



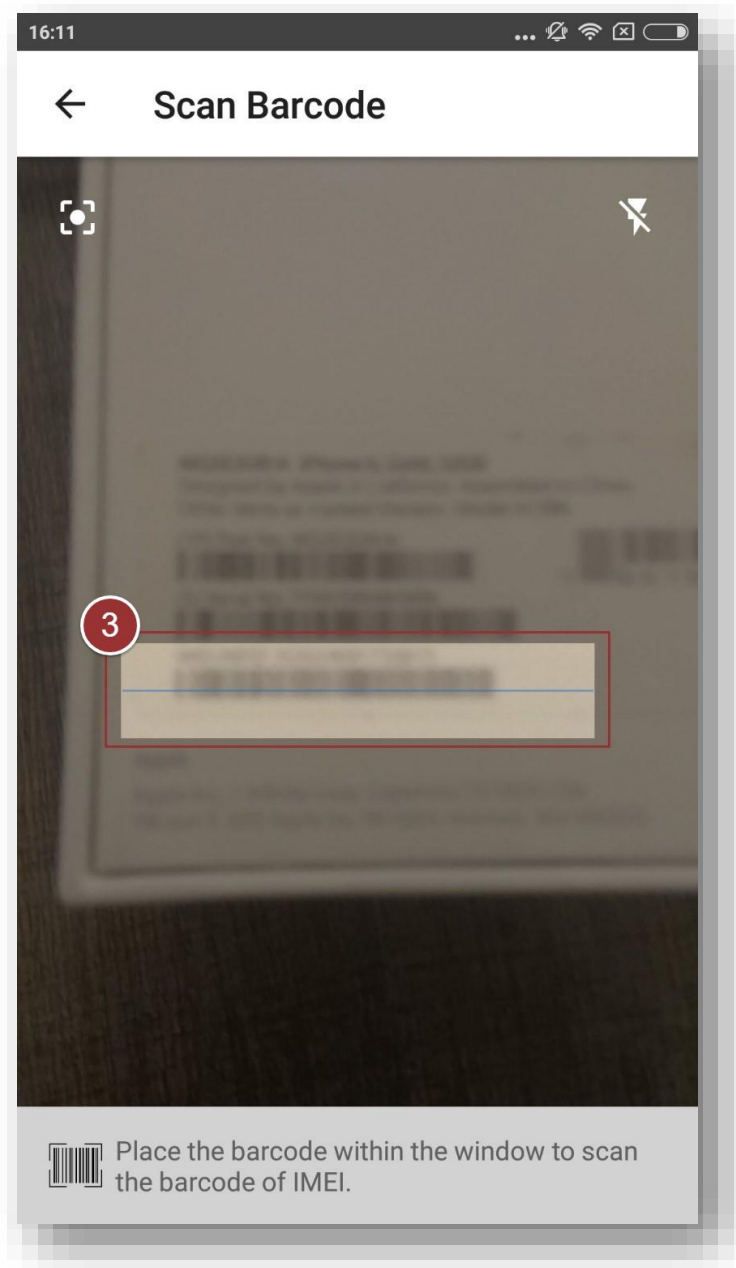
**Figure 9-Scan Barcode**

## 2. Allow the app to access device's camera



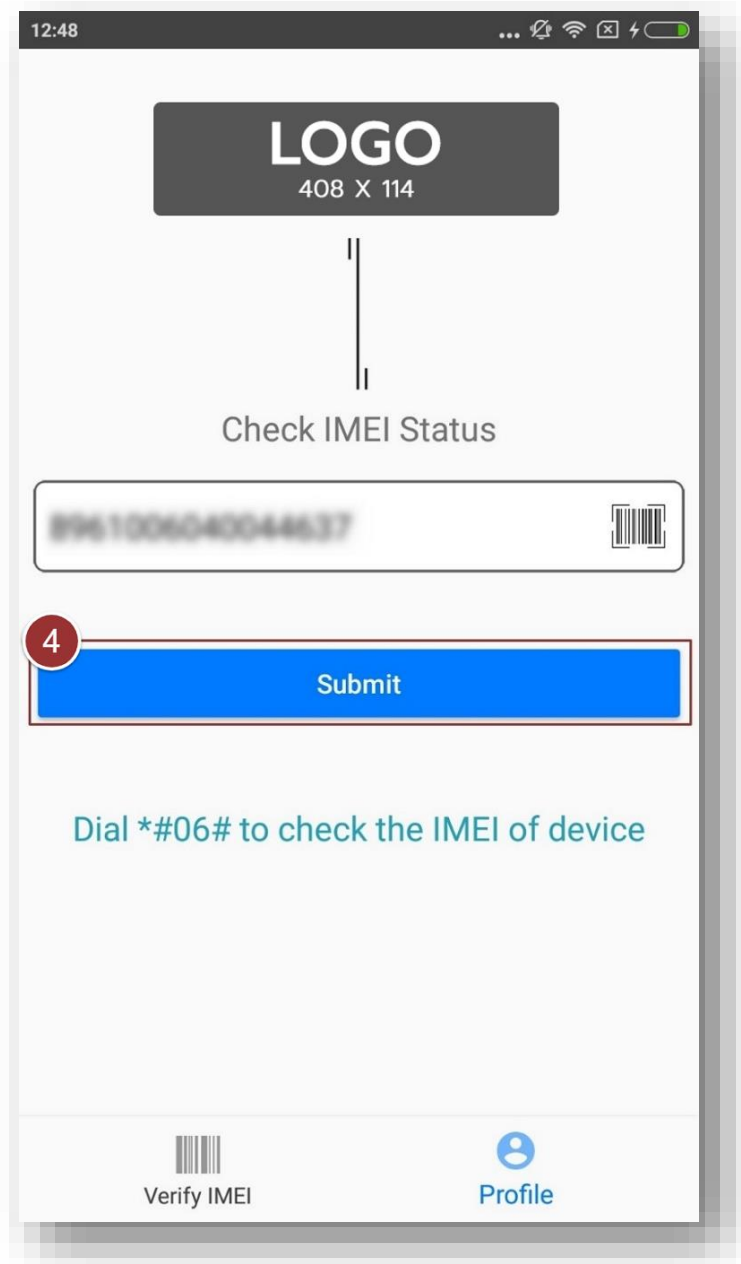
**Figure 10-Allow Button**

3. Place the barcode within the window to scan the barcode of the IMEI



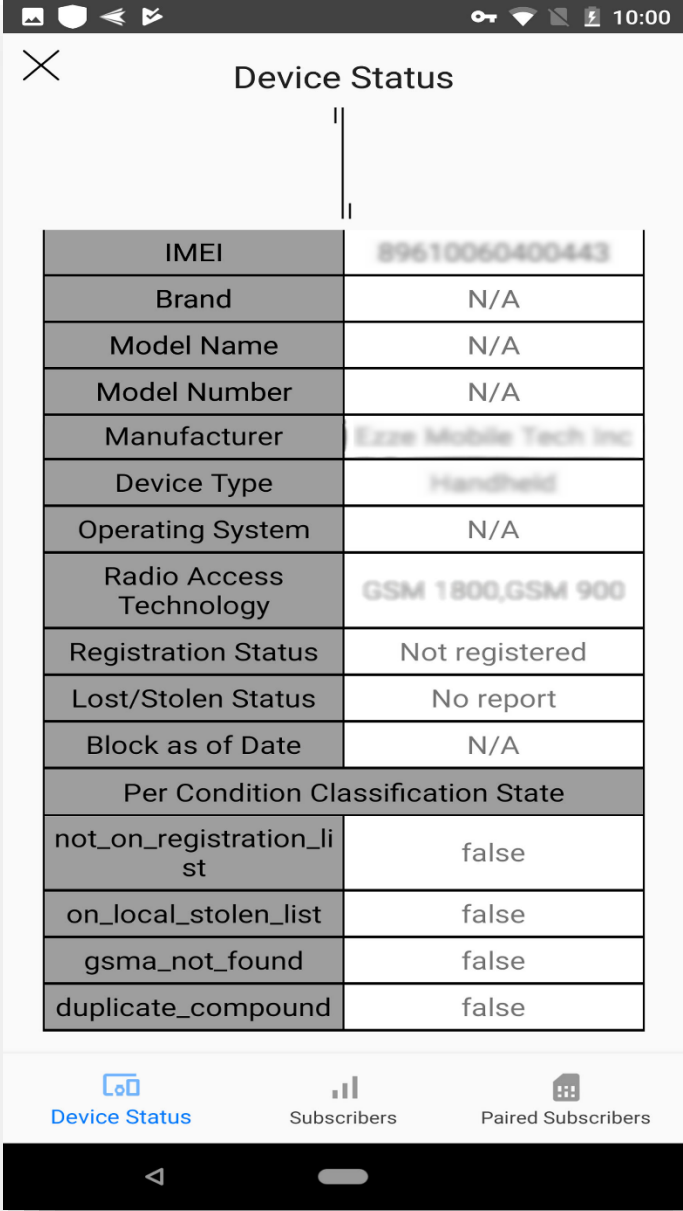
**Figure 11-Scan Box**

4. Tap on the “Submit ” button



**Figure 12-Scanned IMEI Window**

Details of the device will display in a table i.e. IMEI, Brand, Model Name, IMEI Compliance Status etc.



Device Status	
IMEI	89610060400443
Brand	N/A
Model Name	N/A
Model Number	N/A
Manufacturer	Ezze Mobile Tech Inc
Device Type	Handheld
Operating System	N/A
Radio Access Technology	GSM 1800,GSM 900
Registration Status	Not registered
Lost/Stolen Status	No report
Block as of Date	N/A
Per Condition Classification State	
not_on_registration_list	false
on_local_stolen_list	false
gsma_not_found	false
duplicate_compound	false

Navigation Bar: Device Status (selected), Subscribers, Paired Subscribers

**Figure 13-Device Status table 2**

**Note:** To see more information about the device status perform the steps 3-4 as per section [3.3](#)