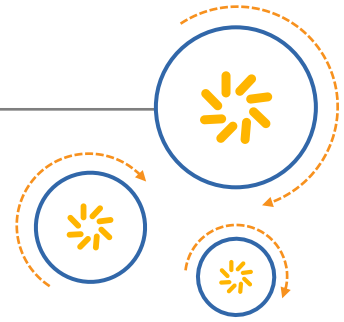




Qualcomm Technologies, Inc.



Device Verification Subsystem

Developer Guide

DVS-Developer-Guide-Android-App-Public

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Revision history

Revision	Date	Description
A		Initial release

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1 Introduction

1.1 Purpose & Scope

This document provides:

- Installation instructions for the Device Verification Subsystem (DVS) Mobile app for public
- Instructions for running test commands/steps to verify DVS app installation

1.2 Audience & Technical Stakeholder

This Installation and Deployment Guide is intended to be used by technical stakeholders of the Device Verification Subsystem Mobile app, who will be responsible for planning, performing, or maintaining the installation or deployment, such as the System Administrators and Developers.

1.3 Definitions, Acronyms & Abbreviations

Table 1- Definitions, Acronyms & Abbreviations

Term	Explanation
DIRBS	Device Identification, Registration & Blocking System
DVS	Device Verification Subsystem
OS	Operating System
URL	Universal Resource Locator

1.4 References

N.A.

1.5 Getting started

The instructions provided in this document assume that the recommended equipment has been installed and configured with Ubuntu/Windows/Mac OS.

2 Installation

NOTE: The reader acknowledges and agrees that it is entirely and solely responsible for the selection and use of all third-party software modules downloaded and installed by this installation method, including securing all appropriate and proper rights of use to any of such third-party software modules and to comply fully with any terms of use that may apply to or accompany any such third-party software modules.

Qualcomm Technologies, Inc. does not undertake any obligations, duties, or other responsibilities in connection with the selection or use by the reader of any of such third-party software modules.

2.1 System Requirements

2.1.1 Software Requirements

- JDK 1.8 or more
- Android Studio 3.1.2
- Android SDK v27 (minimum)
- Minimum Android version 16
- Gradle 4.4
- Android Plugin version 3.1.2

2.1.2 Hardware Requirements

Minimum hardware requirements to build DVS app using Android Studio.

- At least 3 GB of RAM
- At least 4GB of disk space
- Active Internet Connection

Minimum hardware requirements to test DVS app in Android device.

- Device's Camera
- Active Internet Connection

2.2 Operating System

This system can be installed and configured with Ubuntu/Windows/Mac OS.

2.3 Extracting Software Release

The DVS software release is distributed as a tar.gz file. To extract the contents of the distribution, run:

```
tar xvzf dirbs-dvs-android-public-1.0.0.tar.gz
```

2.4 Manual Installation

Import dirbs-dvs-android-public-1.0.0 in Android studio.

3 Configuration

3.1 reCAPTCHA Configuration

For reCAPTCHA configurations go to this [link](#):

1. In Register a new site section enter label for app e.g. iOS DVS Public.
2. Select “Android” type of reCAPTCHA.
3. Enter Package Name.
4. Accept the reCAPTCHA Terms of Service
5. Click on “Register” button.

The image shows a 'Register a new site' form for reCAPTCHA. It contains the following elements:

- Label:** A text input field containing 'Android DVS APP', marked with a red circle '1'.
- Choose the type of reCAPTCHA:** A section with three radio button options: 'Checkbox' (with subtext 'Validate requests with the "I'm not a robot" checkbox.'), 'Invisible' (with subtext 'Validate requests with your own button.'), and 'Android' (with subtext 'Validate requests in your android app.'). The 'Android' option is selected and marked with a red circle '2'.
- Package Names:** A text area with the instruction '(one per line)' and example text: 'For example: com.google.recaptcha.androidapp', 'com.example.alarmclock'. It is marked with a red circle '3'.
- Accept the reCAPTCHA Terms of Service:** A checkbox that is checked, with a link to 'reCAPTCHA Terms of Service'. It is marked with a red circle '4'.
- Send alerts to owners:** A checkbox that is checked, with a help icon. It is marked with a red circle '5'.
- Register:** A blue button located at the bottom right of the form.

Figure 1- reCAPTCHA Configurations

6. Copy “Site Key”.

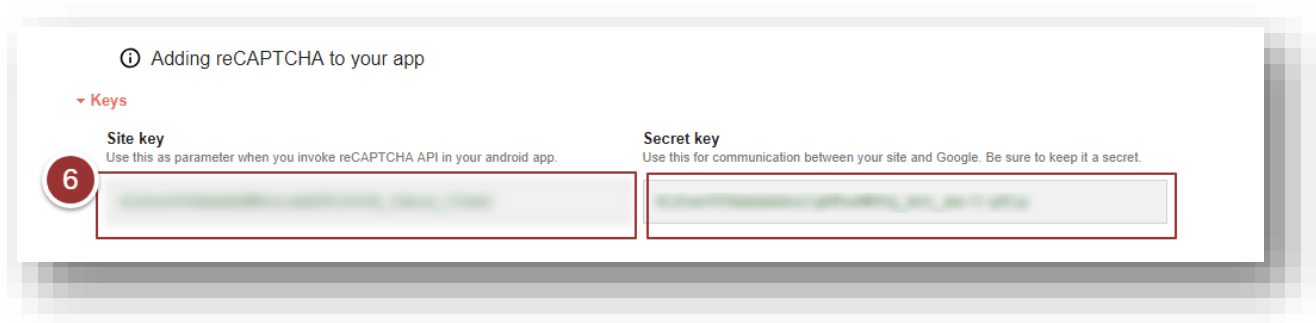


Figure 2- Site Key

Note: Make sure you mentioned the same “Secret Key” in DVS API Configurations.

3.2 App Configuration

- To change the logo of app go to app/res/drawable folder and paste logo file but make sure the file name should be “company_logo.png”
- To change the colors of the app go to app/res/values/colors.xml file and mention hex color code of required color
- Open app/res/values/strings.xml file and add site key (copied in [section 3.1](#) step 6) in value section of “reCAPTCHA_key”

```
<string name="reCAPTCHA_key">ENTER RECAPTCHA KEY HERE</string>
```

- Add API Gateway URL in value section of “api_gateway_url”

```
<string name="api_gateway_url">ENTER API GATEWAY URL HERE</string>
```


4 Testing

To test the successful installation of app, run the app either on any physical device or on Android Emulator. For testing the app on physical device make sure that USB Debugging is enable. If you don't know how to enable USB Debugging on your device visit this [link](#).

5 Publish App

To publish app on Google play store follow instruction given on this [link](#).