



IMAGE SUBSCRIPTION USER GUIDE

WWW.FINGERPRINTS.COM

Fingerprint Cards AB • Visiting address: Kungsporsplatsen 2 • P.O. Box 2412 • SE 403 16 Gothenburg • Sweden • +46 31 60 78 20 • VAT SE556154238101





TABLE OF CONTENTS

IMAGE SUBSCRIPTION USER GUIDE	1
INSTALL THE APPLICATION	3
START THE APPLICATION	4
IMAGE SUBSCRIPTION	5
MENU OPTIONS	5
ENABLE	6
ENABLE ON BOOT	6
SAVE PNG	6
STORAGE PATH	6
NOTIFICATION	7
ABD COMMANDS	8
ENABLE	8
DISABLE	8
ENABLE ON BOOT	8
CANCEL ENABLE ON BOOT	8
ENABLE SAVE PNG	8
DISABLE SAVE PNG	8
XML REPORT	9
Examples	9
Revision history	9





INSTALL THE APPLICATION

The application can be installed in two different ways.

1. **Signed APK:**
 - a. Install the application.
 - i. **adb install -r [Path to .apk]**
2. **Unsigned APK:**
 - a. Verify the application is not already installed.
 - i. **adb shell pm list packages | grep imagesubscription**
 - b. If the application is already installed, find the location and remove it manually.
 - i. **adb shell pm path com.fingerprints.imagesubscription**
 - c. Ensure that you have write privileges to the system.
 - i. **adb root**
 - ii. **adb remount**
 - d. Push the application.
 - i. **adb push [Path to .apk] /system/priv-app/ImageSubscription/ImageSubscription.apk** or **/vendor/app/ImageSubscription/ImageSubscription.apk** if the device is running Android O or later.
 - e. Restart your device.
 - i. **adb reboot**





FINGERPRINTS

START THE APPLICATION

Go to your Home Screen of your device and locate the Image Subscription application. Press on the icon and the application will start.

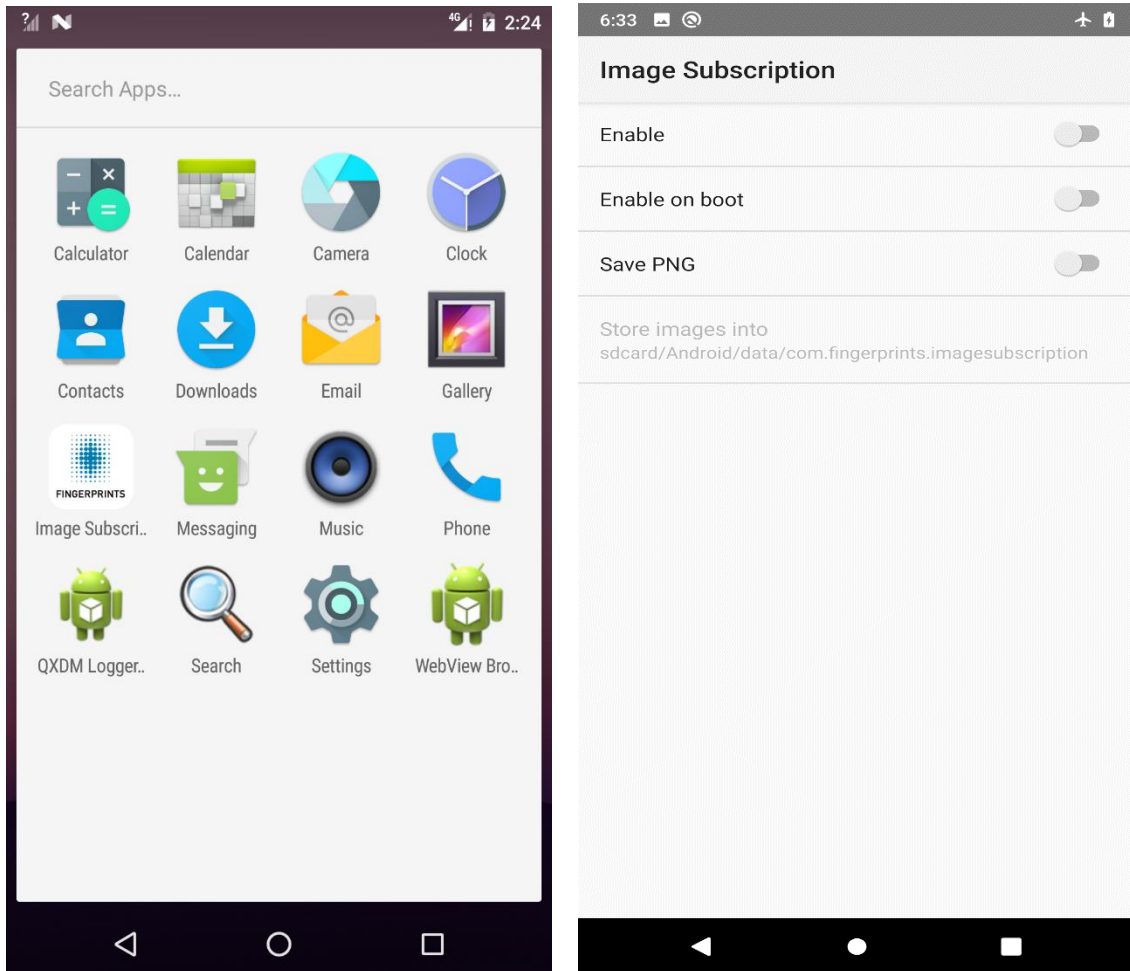


Figure 1 - Starting Image Subscription

WWW.FINGERPRINTS.COM

Fingerprint Cards AB • Visiting address: Kungsporsplatsen 2 • P.O. Box 2412 • SE 403 16 Gothenburg • Sweden • +46 31 60 78 20 • VAT SE556154238101





IMAGE SUBSCRIPTION

Image Subscription is background service used for collecting fingerprint images from fingerprint Enroll / Authentication. All the collected images are stored as FMI in user-defined path.

MENU OPTIONS

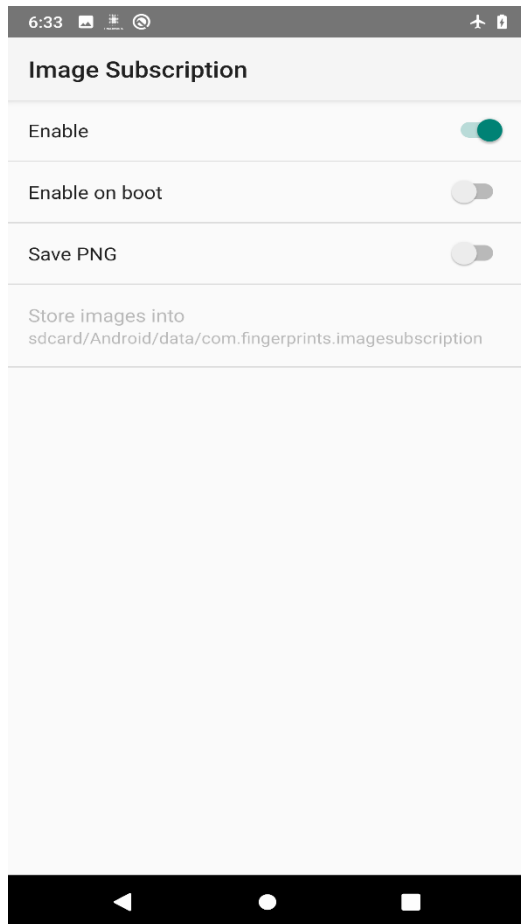


Figure 2 – Enable Subscription

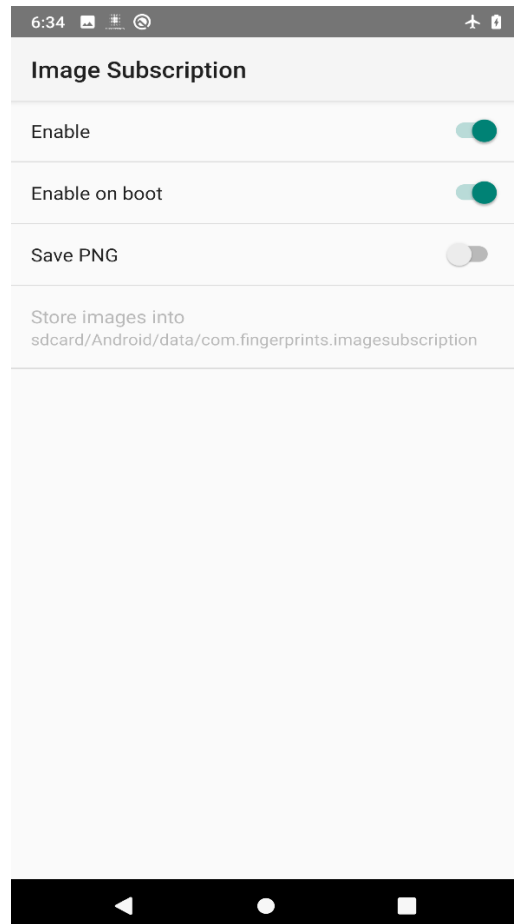


Figure 3 – Enable Subscription on boot





Figure 4 – Save PNG

Figure 5 – Edit storage path

ENABLE

Enable/ Disable Image Subscription.

ENABLE ON BOOT

Enable/ Disable Image Subscription automatically after boot complete.

SAVE PNG

Enable/ Disable save PNG image in separate file.

STORAGE PATH

/sdcard/Android/data/com.fingerprints.imagecollection/files/Pictures/





FINGERPRINTS

NOTIFICATION

Enable/ Disable Image subscription from notification.

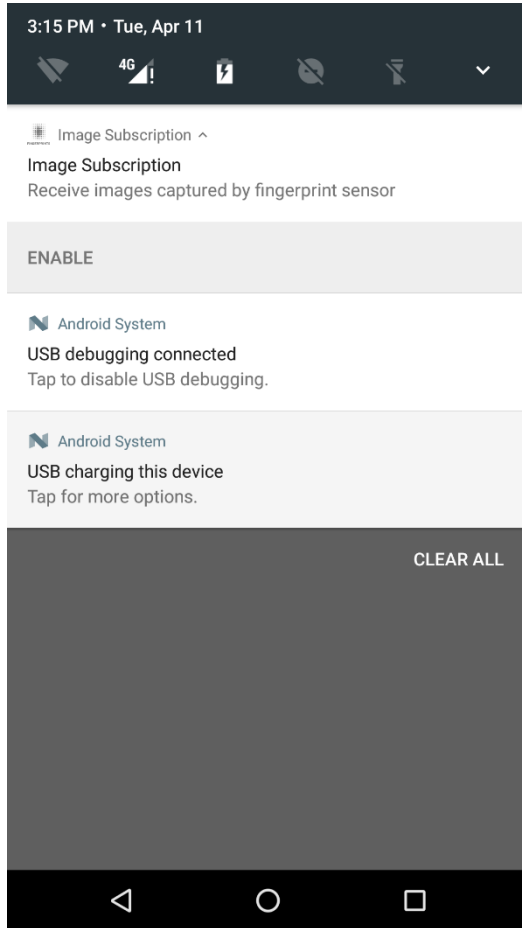


Figure 6 – Enable Subscription

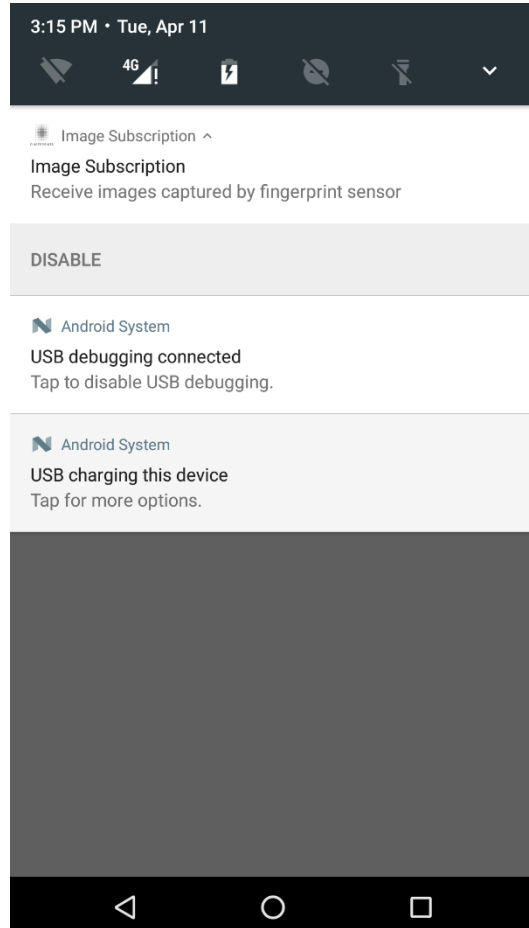


Figure 6 – Disable subscription





FINGERPRINTS

ABD COMMANDS

Below commands used to control the app settings from ADB.

ENABLE

- `adb shell am startservice -a com.fingerprints.imagesubscription.START -n com.fingerprints.imagesubscription/.services.ImageSubscriptionService`

DISABLE

- `adb shell am startservice -a com.fingerprints.imagesubscription.STOP -n com.fingerprints.imagesubscription/.services.ImageSubscriptionService`

ENABLE ON BOOT

- `adb shell am startservice -a com.fingerprints.imagesubscription.START_ON_BOOT -n com.fingerprints.imagesubscription/.services.ImageSubscriptionService --ez startOnBoot true`

CANCEL ENABLE ON BOOT

- `adb shell am startservice -a com.fingerprints.imagesubscription.START_ON_BOOT -n com.fingerprints.imagesubscription/.services.ImageSubscriptionService --ez startOnBoot false`

ENABLE SAVE PNG

- `adb shell am startservice -a com.fingerprints.imagesubscription.SAVE_PNG -n com.fingerprints.imagesubscription/.services.ImageSubscriptionService --ez savePng true`

DISABLE SAVE PNG

- `adb shell am startservice -a com.fingerprints.imagesubscription.SAVE_PNG -n com.fingerprints.imagesubscription/.services.ImageSubscriptionService --ez savePng false`

WWW.FINGERPRINTS.COM





XML REPORT

For each FMI file stored, a corresponding XML-file containing meta-data is stored. The name of the XML-file will be the same as the FMI file, but with a different extension.

For each image, a CaptureData-root tag will be stored, it will either contain an EnrollData tag or VerifyData tag. The following section describes all the values the tags can contain.

CaptureData

- **time:** Number of milliseconds after 1970.

EnrollData

- **index:** Number of images (approximately) before enroll is complete. Will be zero when enroll is complete.
- **fid:** (optional) Finger id, only available if *index* is zero (i.e. when enroll is complete)
- **status:** A number indicating enroll-status, will be of the following.
 0. FPC_ERROR_NONE
 1. FPC_STATUS_ENROLL_PROGRESS
 2. FPC_STATUS_ENROLL_LOW_COVERAGE
 3. FPC_STATUS_ENROLL_TOO_SIMILAR
 4. FPC_STATUS_ENROLL_LOW_QUALITY
 5. FPC_STATUS_ENROLL_LOW_MOBILITY
 6. FPC_ERROR_ALREADY_ENROLLED

VerifyData

- **state:** Rejected or Accepted depending on if the finger was identified.
- **fid:** (optional) Only available if *state* is Accepted, i.e. the finger was identified.
- **coverage:** (0-100) Sensor coverage of the captured picture.
- **quality:** (0-100) Quality of the captured picture.

Examples

XML-data captured during authenticate.

```
<CaptureData time="35762587391">  
  <VerifyData state="Accepted" fid="-798898111" coverage="91" quality="47"/>  
</CaptureData>
```

XML-data captured during enroll.

```
<CaptureData time="35260626442">  
  <EnrollData index="0" status="0" fid="-1152063259"/>  
</CaptureData>
```

Revision history

Rev	Date	Changes	Author
Dev-3.01	2020-04-10	Adapt to the newest app	Dave Xu

