The project is **UNMAINTAINED**, we recommend OpenKeychain. The core porting work has all be included upstream in the official https://gnupg.org sources. The Android app needs a new maintainer. This could be you! Email us at support@guardianproject.info

Gnu Privacy Guard for Android!

This is part of the PSST Project

- [[How to Use GPG]]
- [[API Sketch]]
- [[UI and UX Sketches]]
- [[App Lingo]]
- [[Anonymous Web of Trust]]
- [[Survey of PGP implementations]]
- [[Debugging this Beast]]

Download

- Gnu Privacy Guard nightly builds
- Gnu Privacy Guard from the Google Play Store

Relevant source code

- https://github.com/guardianproject/gnupg-for-android
- https://github.com/guardianproject/gnupg-for-java
- https://github.com/guardianproject/pinentry.git
- The GnuPG suite: http://git.gnupg.org/cgi-bin/gitweb.cgi

Features we plan to support

Overview of Needed Activities

- a collection of Activities for seamless integration with other apps
  - act transparently via Intents and returned data
  - only pop UI if user-action is needed (password, choose key, etc)
  - sign/validate emails
  - encrypt/decrypt emails
  - sign/validate files
  - encrypt/decrypt files
  - show trust level
  - generate private key first time
  - sign OpenPGP keys to certify their validity

A list of gnupg features roughly grouped by potential Activity screen:

- private key view
  - assume single private key
  - should detailed info on scrollable page
  - include QRCode of fingerprint?
  - publish public key with sigs to keyserver

- key manager view
  - list of public keys
  - view sigs, trust level, etc.
  - select key to sign, etc.
  - sync local keyring with keyservers

- public key view
  - view certification signatures for any key
  - option to sign this key

- signing activity
  - QR code display/scanning for keysigning exchanges
  - display randomart image of fingerprint for keysigning exchanges
  - allow easy QR scanning
  - lsign (local-only unexportable) OpenPGP keys
  - publish certification signatures to keyservers
  - email certification signatures to key owner

- searching and downloading keys
  - if no key in keyring, prompt to search for key
  - preference to automatically search for less privacy concerned users
  - search/download public keys from keyservers

- contacts integration
  - what does Google sync from custom fields?
  - show key verification status
  - show trust level
  - clickable link into GPG for signing, detail view

- handling revokation keys
  - automatically generate when generating new private key
  - offer options for remote storage of revokation certificate
  - easy way to copy revoke key to offline storage

- importing keys
  - import public keys from SD card
  - DO NOT import secret keys from SD card, since its public (use our webdav secure store)

Optional Features

- display Photo ID images embedded in OpenPGP keys
- tor proxy support for non-root Tor

- trust path view
  - generate trust path between private key and current user
- social graph view aka web of trust degrees

Third Party Code / Libs

- Java binding for GPGME: https://github.com/smartrevolution/gnupg-for-java
- GnuPG Wrapper for Java: http://www.macnews.co.il/mageworks/java/gnupg/sample-code.shtml

Files

Screenshot_2013-06-13-21-06-37.png	112 KB	06/13/2013	abeluck