THE GUARDIAN PROJECT /

Our secure mobile developer kits

We're making it easier for Android devs to integrate security with our open-source kits:

SQLCipher: Encrypted Database

SQLCipher is an SQLite extension that provides transparent 256-bit AES encryption of database files. It mirrors the standard android.database API. Pages are encrypted before being written to disk and are decrypted when read back.

IOCipher: Encrypted Virtual Disk

IOCipher is a virtual encrypted disk for apps without requiring the device to be rooted. It uses a clone of the standard java.io API for working with files. Just password handling & opening the virtual disk are what stand between developers and fully encrypted file storage.

NetCipher: Better TLS and Tor App Integration

NetCipher is improving network security. It provides a strong TLS/SSL verifier to help mitigate weaknesses in the certificate authority system. It eases the implementation of supporting SOCKS and HTTP proxies into applications and also supports onion routing for anonymity and traffic surveillance circumvention.

GnuPG: OpenPGP Encryption

Gnu Privacy Guard (GnuPG) brings the OpenPGP encryption standard to Android. GnuPG combines hashing, compression, and public-key cryptography for keeping emails and files private, and for verifying that emails and files are from who you think they are. It includes an Android API and an app for keychain management

ffmpeg: Media Privacy Framework

ffmpeg is a popular, widespread framework for transcoding and filtering digital videos. It's being extended to provide a full framework for audio and image redaction, metadata management, and encryption of sensitive parts of the media. The framework is wrapped in a Java API.