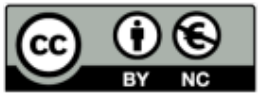
Libera app in libero Android

Percorso di consapevolezza del proprio telefono
e della nostra libertà di usarlo

Sabrina Innocenti

Libera Informatica



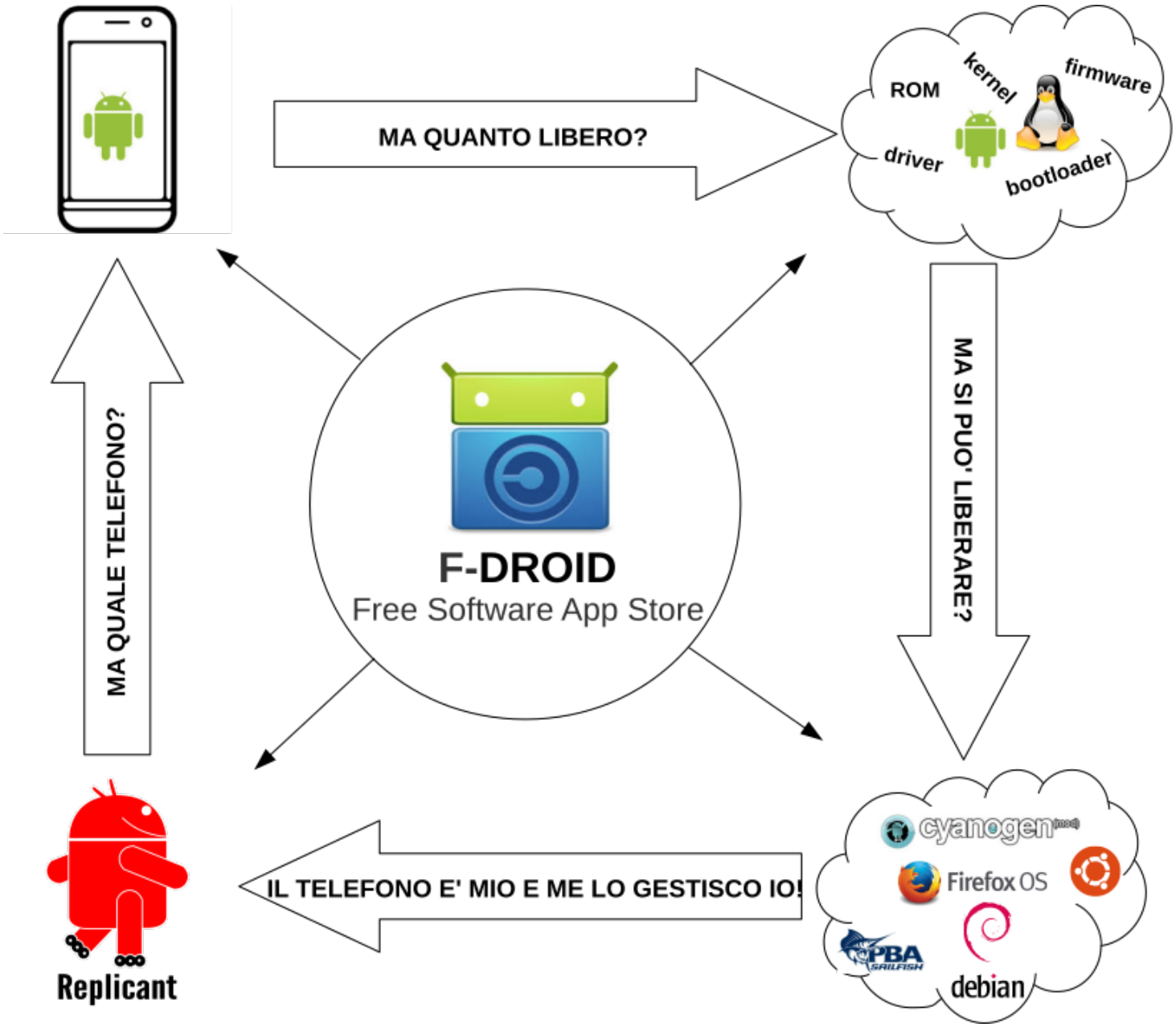
condividere

riflettere

contribuire

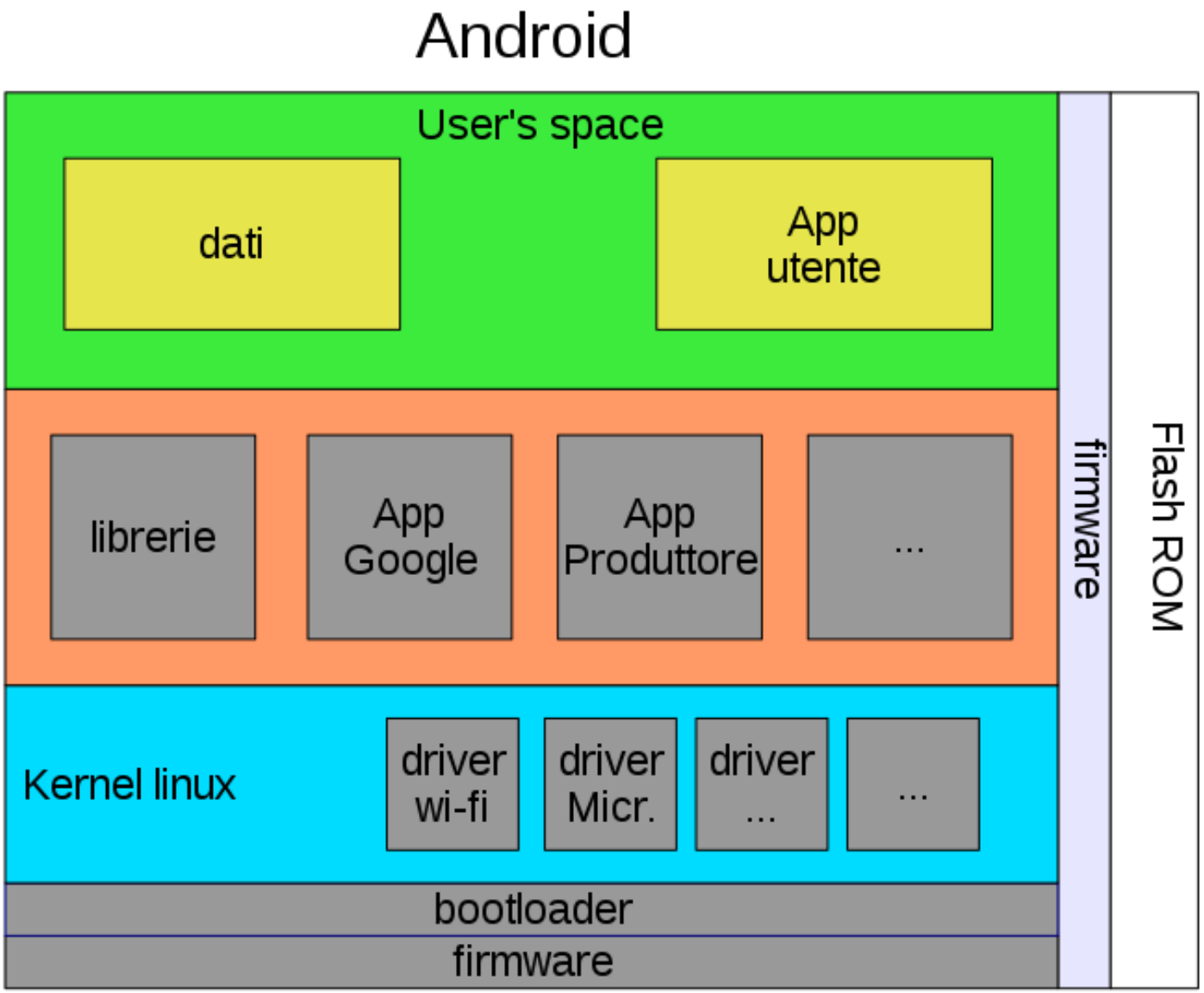
Campagna Free Software Foundation Europe

https://fsfe.org/campaigns/android/android.it.html


MA QUANTO LIBERO?
ROM
kernel
firmware
driver
bootloader
MA SI PUO' LIBERARE?
F-DROID
Free Software App Store
MA QUALE TELEFONO?
IL TELEFONO E' MIO E ME LO GESTISCO IO!
Replicant
cyanogen
Firefox OS
PBA SAILFISH
debian

MA QUANTO LIBERO?

Ma quanto libero?



Ma quanto libero?

I componenti non liberi —> **sottratti al controllo** utente

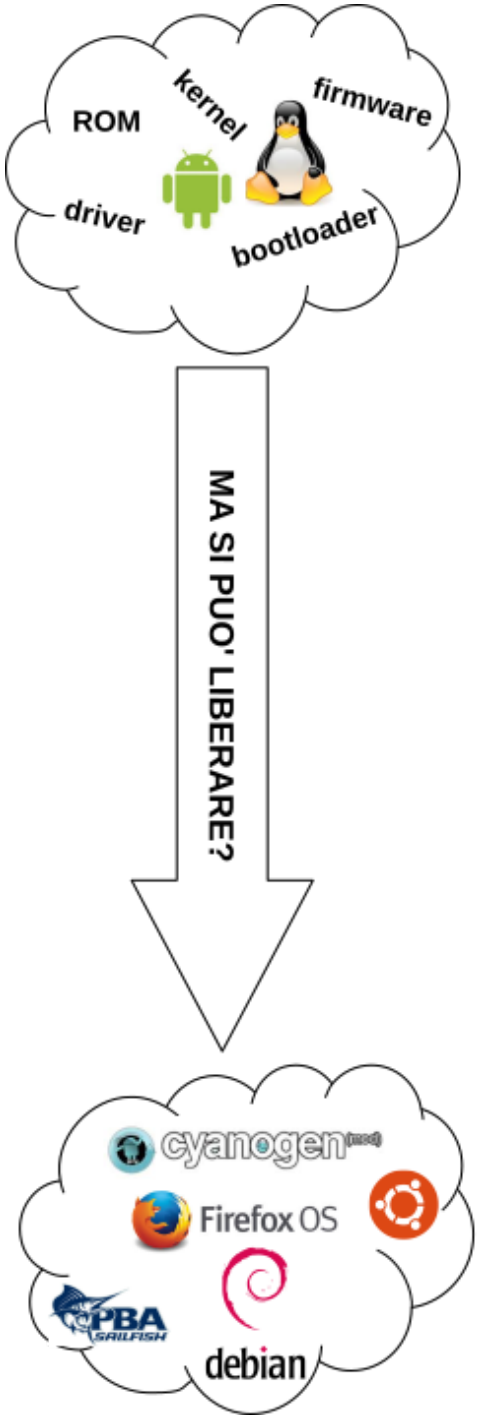
- Limite alla libertà di utilizzo
  - aggiornamento software gestito dal produttore
  - se il bootloader è bloccato (locked), viene impedita l'installazione di altri sistemi operativi
- Limite alla libertà di conoscere
  - quali funzionalità nascondono le app non libere? (codice malevolo?)
  - e se volessi migliorarle?

Ma quanto libero?

- Limite alla libertà di gestione della propria privacy
  - telefono == sfera privata
  - componenti hardware == vulnerabilità privacy e sicurezza
  - comunicazione, GPS, microfono, camera ecc. == chi siamo, chi contattiamo, da dove, quando, come, perchè, come ci muoviamo, cosa diciamo, cosa facciamo ecc.
  - utilizzo più o meno esplicito
  - raccolta dati da parte di aziende/governi(USA).

Ma quanto libero?

- Che fare?
  - hardware libero, al momento non è disponibile
  - firmware per la maggior parte proprietari
  - architettura che isoli più possibile la componente che gestisce la connessione alla rete telefonica (che è sempre proprietaria) rispetto agli altri componenti hw.
  - utilizzare più software libero possibile (bootloader, drivers, apps)


ROM
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Ma è possibile liberarlo?

- cyanogenmod
  - versione di Android svincolata da account Google
  - libera da personalizzazioni e app del produttore.
  - utilizza stessi firmware e driver non liberi (se presenti)

Ma è possibile liberarlo?

SO alternativi

- Firefox os
- Ubuntu touch
- Debian
- Sailfish os

Rimane il problema di firmware bootloader e driver

Replicant
IL TELEFONO E' MIO E ME LO GESTISCO IO!
cyanogen
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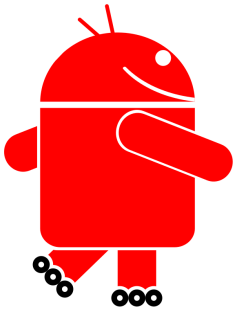
Il telefono è mio e me lo gestico io!



Replicant

- versione libera di Android che utilizza driver liberi
- firmware non liberi

http://www.replicant.us/

MA QUALE TELEFONO?
Replicant

Ma quale telefono?

Cosa posso fare sul mio telefono?

- Replicant http://www.replicant.us/supported-devices.php
- CyanogenMod http://wiki.cyanogenmod.org/w/Devices (ufficiali)

Ma quale telefono?

- https://redmine.replicant.us/projects/replicant/wiki/ReplicantStatus

Replicant status

Cronologia

Maintained versions

Replicant 4.2

Device	2D graphics	3D graphics	Audio	Telephony	Mobile data	Wi-Fi	Bluetooth	NFC	GPS	Sensors	Camera	Hardware media encoding/decoding
Nexus S (I902x)	Working	Missing	Working	Working	Working	Missing without non-free firmwares	Missing without non-free firmwares	Working	Missing	Working	Working	Missing
Galaxy S (I9000)	Working	Missing	Working	Working	Working	Missing without non-free firmwares	Missing without non-free firmwares	N/A	Missing	Working	Working	Missing
Galaxy S 2 (I9100)	Working, fast	Missing	Working, except Bluetooth and USB audio	Working	Working	Missing without non-free firmwares	Missing without non-free firmwares	Missing	Missing	Working	Working	Missing
Galaxy Note (N7000)	Working, slow	Missing	Working, except Bluetooth and USB audio	Working	Working	Missing without non-free firmwares	Missing without non-free firmwares	Missing	Missing	Working	Working	Missing
Galaxy Nexus (I9250)	Working	Missing	Working	Working	Working	Missing without non-free firmwares	Missing without non-free firmwares	Working	Missing	Working	Missing	Missing
Galaxy Tab 2 7.0 (P31xx)	Working, fast	Missing	Working	Working	Working	Missing without non-free firmwares	Missing without non-free firmwares	N/A	Missing	Working	Missing	Missing
Galaxy Tab 2 10.1 (P51xx)	Working, slow	Missing	Working	Working	Working	Missing without non-free firmwares	Missing without non-free firmwares	N/A	Missing	Working	Missing	Missing
Galaxy S 3 (I9300)	Working	Missing	Working	Working	Working	Missing without non-free firmwares	Missing without non-free firmwares	Working	Missing	Working	Working (back) Missing without non-free firmwares (front)	Missing
Galaxy Note 2 (N7100)	Working	Missing	Working	Working	Working	Missing without non-free firmwares	Missing without non-free firmwares	Working	Missing	Working	Working (back) Missing without non-free firmwares (front)	Missing
GTA04	Working	Missing	Working	Missing	Missing	Missing without non-free	Broken	N/A	Working	Missing	Missing	Missing

... e le app?

F-DROID
Free software app store

Repository di app libere: **https://f-droid.org/**

- F-Droid non traccia chi siete, cosa scaricate e cosa installate. Nessun account è necessario.
- app rilasciate sotto licenza software libero e aperto (librerie e dipendenze incluse)
- verifiche su codice sorgente e compilazione da sorgente
- non è consentito che vengano scaricaricati file eseguibili aggiuntivi (componenti non-free, aggiornameni automatici ecc.)

... e le app?

In alcuni casi, sebbene il software sia libero e aperto, potrebbe contenere pratiche non gradite (es. pubblicità, tracciamento).
Le app vengono comunque incluse nel repository ma con una segnalazione ben evidenziata con l'**Antifeatures**'appropriato e non vengono mostrate di default.

Antifeatures

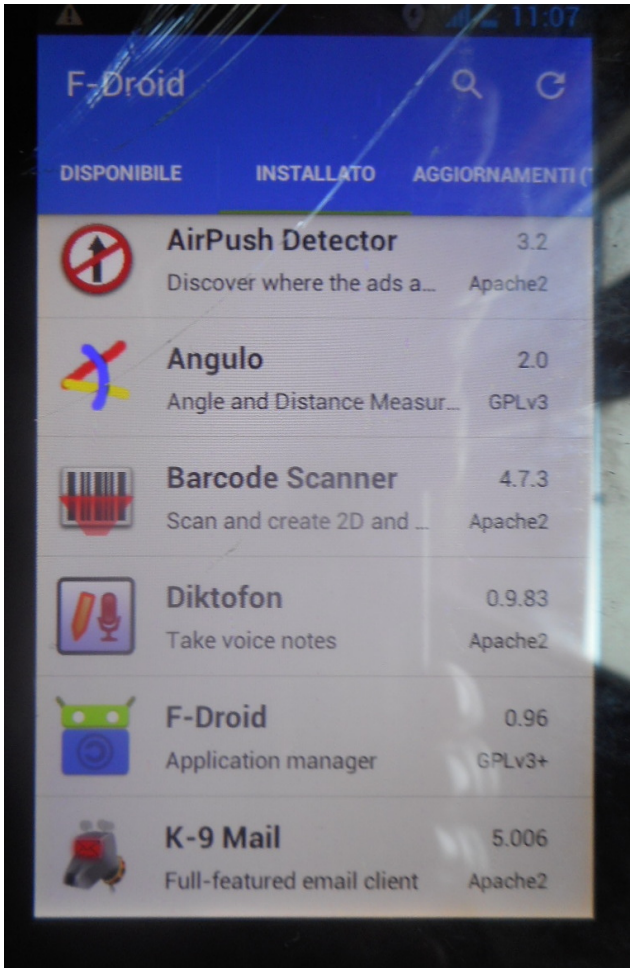
Antifeatures are flags applied to applications to warn of behaviour that may be undesirable from the user's perspective. Frequently it is behaviour that benefits the developer or third party, but
end user of the software would prefer not to be there.

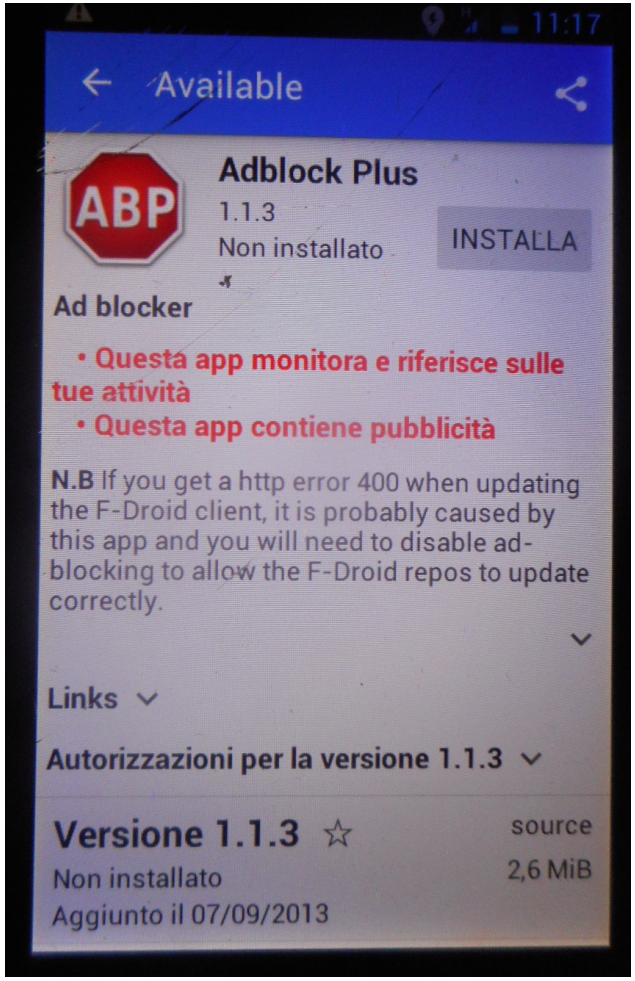
The F-Droid client and web respository browser notify you when viewing the details of an app with one or more of these Antifeatures:

- Ads **(8 list)** – the application contains advertising
- Tracking **(22 list)** – the application tracks and/or reports your activity to somewhere, either without your permission, or by default (i.e. you'd have to actively disable it)
- Non-free Network Services **(45 list)** – the application promotes or depends entirely on a non-Free network service
- Non free Addons **(10 list)** – the application promotes other non-Free apps or plugins
- Non free Dependencies **(27 list)** – the application depends on another non-Free application (e.g. Google Maps, Market) for its operation
- Upstream Non-free **(84 list)** – the upstream source code is non-free - the F-Droid version is patched to fix this

The numbers indicate how many apps in the main F-Droid repository have each antifeature, and you can click through to see them all. You can also see all apps with antifeatures (of which ther
172).

... e le app?


11:07
F-Droid
DISPONIBILE
INSTALLATO
AGGIORNAMENTI (
AirPush Detector
3.2
Discover where the ads a...
Apache2
Angulo
2.0
Angle and Distance Measur...
GPLv3
Barcode Scanner
4.7.3
Scan and create 2D and ...
Apache2
Diktofon
0.9.83
Take voice notes
Apache2
F-Droid
0.96
Application manager
GPLv3+
K-9 Mail
5.006
Full-featured email client
Apache2


11:17
Available
ABP
Adblock Plus
1.1.3
Non installato
INSTALLA
Ad blocker
• Questa app monitora e riferisce sulle tue attività
• Questa app contiene pubblicità
N.B If you get a http error 400 when updating the F-Droid client, it is probably caused by this app and you will need to disable ad-blocking to allow the F-Droid repos to update correctly.
Links
Autorizzazioni per la versione 1.1.3
Versione 1.1.3
source
Non installato
2,6 MiB
Aggiunto il 07/09/2013

... e le app?

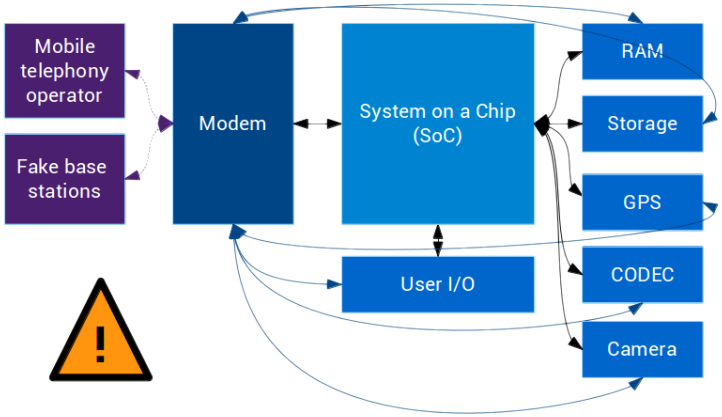
Come contribuire:

- Segnalare problemi
- Inserire applicazioni
- Tradurre applicazioni
- Contribuire allo sviluppo

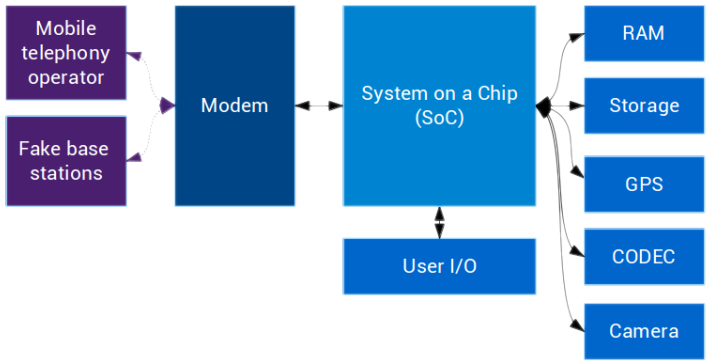
https://f-droid.org/contribute/

Link utili:

- https://fsfe.org/campaigns/android/android.it.html
- https://www.replicant.us/freedom-privacy-security-issues.php
- http://www.replicant.us/supported-devices.php
- http://wiki.cyanogenmod.org/w/Devices
- https://redmine.replicant.us/projects/replicant/wiki/ReplicantStatus
- https://f-droid.org/
- https://f-droid.org/contribute/



Bad modem isolation



Good modem isolation

Fonte: http://www.replicant.us/freedom-privacy-security-issues.php
indietro