
Android Analysis Report



Demo app

com.ofss.fcdb.mobile.android.alpharom.alphaandroid

Date 2018-06-14

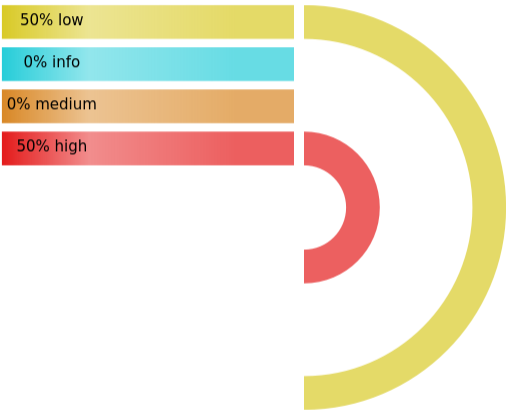
Contents

1	PERMISSIONS	1
2	FINDINGS SUMMARY	2
3	DETAILED FINDINGS	3
3.1	A1: Access local ressources	3
3.2	A2:	3
3.3	A3: Launch Mode of Activity (com. iflex. fcat. mobile. android. infra. LoginActivity) is not standard.	4
3.4	A4:	4
4	VISUALIZATIONS	6
4.1	Chord Diagram - Class Relations	6
4.2	Hot Spot - System Overview	7

1 PERMISSIONS

Type	List
Overprivileged	ACCESS_NETWORK_STATE INTERNET VIBRATE WRITE_EXTERNAL_STORAGE ACCESS_COARSE_LOCATION ACCESS_FINE_LOCATION CALL_PHONE
Automatically granted dangerous permissions	ANSWER_PHONE_CALLS READ_PHONE_NUMBERS READ_PHONE_STATE READ_CALL_LOG WRITE_CALL_LOG ADD_VOICEMAIL USE_SIP PROCESS_OUTGOING_CALLS READ_EXTERNAL_STORAGE

2 FINDINGS SUMMARY



Index	Title	Impact
A1	Access local ressources	High
A2		Low
A3	Launch Mode of Activity (com. iflex. feat. mobile. android. infra. LoginActivity) is not standard.	High
A4		Low

3 DETAILED FINDINGS

3.1 A1: Access local ressources

Description

Evidence

```
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/com/iflex/fcat/mobile/android/infra/
OffersActivity.smali
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/com/iflex/fcat/mobile/android/infra/
HelpUrlActivity.smali
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/com/iflex/fcat/mobile/android/infra/
ATGWebViewActivity.smali
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/com/iflex/fcat/mobile/android/infra/
PreLoginOffers.smali
```

Recommendation

3.2 A2:

Description

Evidence

```
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/text/ICUCompatIcs.
smaliIAndroid/util/Log->w(Ljava/lang/String;Ljava/lang/Throwable;)
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/text/ICUCompatIcs.
smaliIAndroid/util/Log->w(Ljava/lang/String;Ljava/lang/Throwable;)
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/text/ICUCompatIcs.
smaliIAndroid/util/Log->w(Ljava/lang/String;Ljava/lang/Throwable;)
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/text/ICUCompatIcs.
smaliIAndroid/util/Log->w(Ljava/lang/String;Ljava/lang/Throwable;)
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/text/ICUCompatIcs.
smaliIAndroid/util/Log->w(Ljava/lang/String;Ljava/lang/Throwable;)
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/util/AtomicFile.smaliIAndroid/
util/Log->w(Ljava/lang/String;Ljava/lang/String;Ljava/lang/Throwable;)
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/util/AtomicFile.smaliIAndroid/
util/Log->w(Ljava/lang/String;Ljava/lang/String;Ljava/lang/Throwable;)
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/util/AtomicFile.smaliIAndroid/
util/Log->w(Ljava/lang/String;Ljava/lang/String;)
```

```

/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/util/LogWriter.smali
util/Log->d(Ljava/lang/String;Ljava/lang/String;)
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/app/ShareCompat$IntentReader.
smali
util/Log->e(Ljava/lang/String;Ljava/lang/String;Ljava/lang/Throwable;
)

```

snip

For the full list view `/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_mobile_android_alpharom_alphaandroid/report`

Recommendation

3.3 A3: Launch Mode of Activity (com. iflex. fcat. mobile. android. infra. LoginActivity) is not standard.

Description

An Activity should not be having the launch mode attribute set to "singleTask/singleInstance" as it becomes root Activity and it is possible for other applications to read the contents of the calling Intent.

Recommendation

It is required to use the "standard" launch mode attribute when sensitive information is included in an Intent.

3.4 A4:

Description

Evidence

```

/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/text/ICUCompatIcs.
smali
forName
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/text/ICUCompatIcs.
smali
invoke
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/text/ICUCompatIcs.
smali
invoke
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/app/ActionBarDrawerToggleHoney
smali
invoke
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/app/ActionBarDrawerToggleHoney
smali
invoke
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/widget/SlidingPaneLayout$Slidin
smali
invoke
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/view/ViewPager.smali
invoke

```

```
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/com/iflex/fcat/mobile/android/infra/
TemplateOne.smali.forName
```

```
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/com/iflex/fcat/mobile/android/infra/
LogoffActivity$1.smali.forName
```

```
/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_
mobile_android_alpharom_alphaandroid/app/smali/com/iflex/fcat/mobile/android/infra/
TemplateOne$14.smali.forName
```

snip

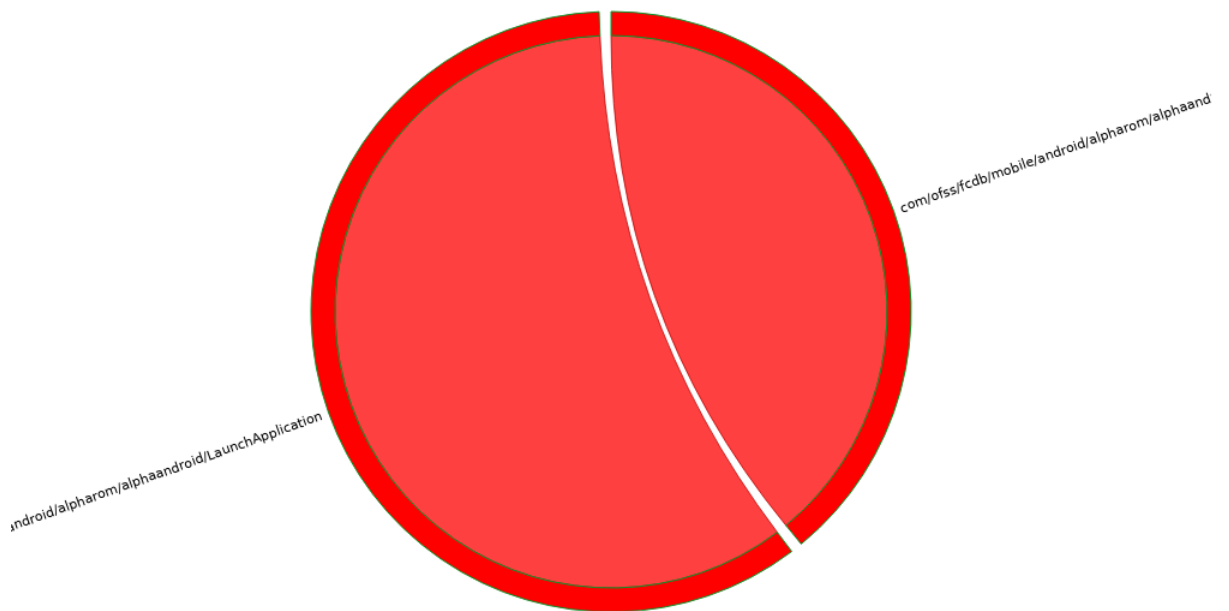
For the full list view `/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_
apps/com_ofss_fcdb_mobile_android_alpharom_alphaandroid/report`



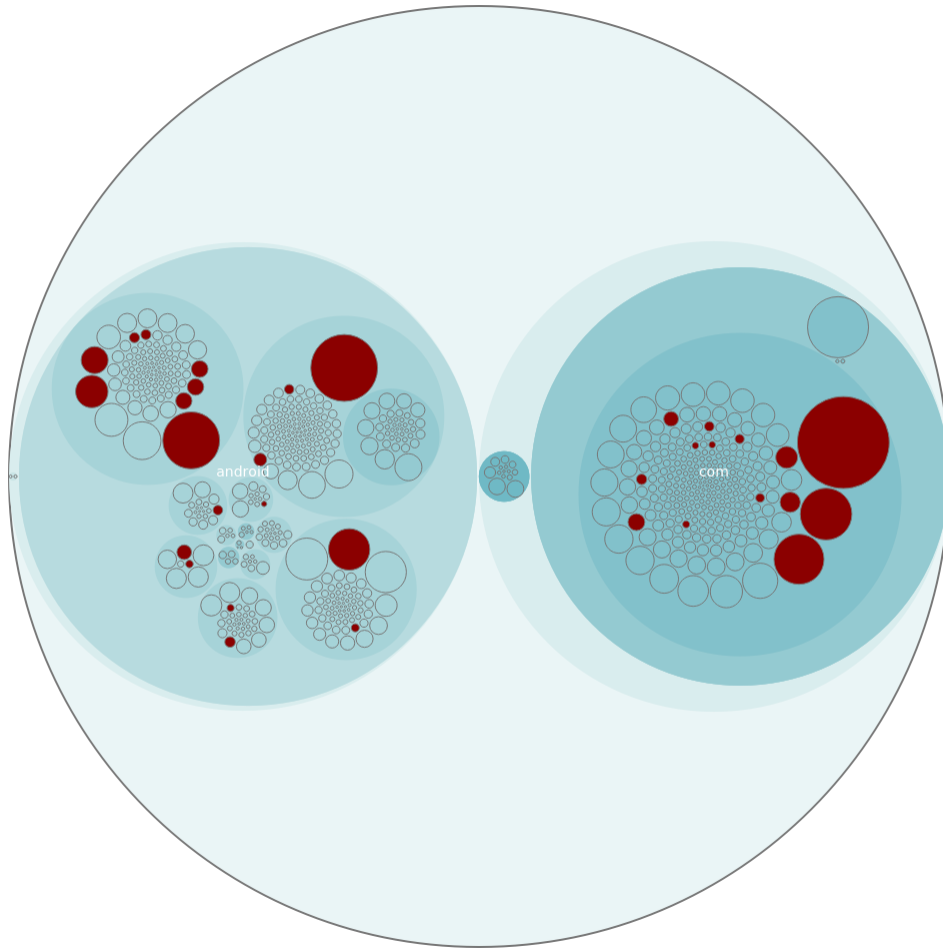
Recommendation

4 VISUALIZATIONS

4.1 Chord Diagram - Class Relations



4.2 Hot Spot - System Overview



Index	Class
1	/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/text/ICUCompatIcs.smali
2	/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/app/FragmentManagerImpl.smali
3	/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/app/ActionBarDrawerToggleHoneycomb.smali
4	/home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_apps/com_ofss_fcdb_mobile_android_alpharom_alphaandroid/app/smali/android/support/v4/view/ViewPager.smali

5 /home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_
apps/com_ofss_fcdb_mobile_android_alpharom_alphaandroid/app/
smali/com/iflex/fcat/mobile/android/infra/Flog.smali

6 /home/miki/Documents/GITHUB/AndroidPermissions/apks/
playstore_apps/com_ofss_fcdb_mobile_android_alpharom_
alphaandroid/app/smali/android/support/v4/widget/
SlidingPanelLayout\$SlidingPanelLayoutImplJB.smali

7 /home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_
apps/com_ofss_fcdb_mobile_android_alpharom_alphaandroid/app/
smali/android/support/v4/util/AtomicFile.smali

8 /home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_
apps/com_ofss_fcdb_mobile_android_alpharom_alphaandroid/app/
smali/android/support/v4/app/ShareCompat\$IntentReader.smali

9 /home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_
apps/com_ofss_fcdb_mobile_android_alpharom_alphaandroid/app/
smali/android/support/v4/app/LoaderManagerImpl.smali

10 /home/miki/Documents/GITHUB/AndroidPermissions/apks/playstore_
apps/com_ofss_fcdb_mobile_android_alpharom_alphaandroid/app/
smali/com/iflex/fcat/mobile/android/infra/ATGWebViewActivity.
smali