

ANDROID STATIC ANALYSIS REPORT



• NFC Key (1.38)

File Name:	installer242.apk
Package Name:	pl.net.szafraniec.NFCKey
Scan Date:	May 31, 2022, 1:13 p.m.
App Security Score:	52/100 (MEDIUM RISK)
Grade:	

FINDINGS SEVERITY

派 HIGH	▲ MEDIUM	i INFO	✓ SECURE	≪ HOTSPOT
1	7	1	1	0

FILE INFORMATION

File Name: installer242.apk

Size: 0.27MB

MD5: b4cff93e3056ffca2fa31737f217e82d

SHA1: 520c52ad310bd164154eb1fe3f589f2435f32f80

SHA256: f1c8c359dc0b2539a4cedab367b60b81b3e57dc03f5c8c5c4f77df54a13f758a

i APP INFORMATION

App Name: NFC Key

Package Name: pl.net.szafraniec.NFCKey

Main Activity: MainActivity

Target SDK: 19 Min SDK: 16 Max SDK:

Android Version Name: 1.38
Android Version Code: 21

EE APP COMPONENTS

Activities: 9 Services: 0 Receivers: 0 Providers: 0

Exported Activities: 3 Exported Services: 0 Exported Receivers: 0 Exported Providers: 0



APK is signed v1 signature: True v2 signature: False v3 signature: False

Found 1 unique certificates

Subject: C=UK, ST=ORG, L=ORG, O=fdroid.org, OU=FDroid, CN=FDroid

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2014-01-20 06:24:10+00:00 Valid To: 2041-06-07 06:24:10+00:00

Issuer: C=UK, ST=ORG, L=ORG, O=fdroid.org, OU=FDroid, CN=FDroid

Serial Number: 0x455342dc Hash Algorithm: sha256

md5: 0ef814543d44a6ed927183698b8b2ed5

sha1: 0f6df982dac3f8484aefa09616b6eb1db66fd926

sha256: db9475619ec63526d7240d7bee629c9d16020c443d3aab1b52dfa4cb0d45a04aab1b52dfa4cb0d45a04abab1bb1b4cb0d45a04abab1bb1b4cb0d4bb1b4cb

sha512: 3cfb8943af31970e0a91d07562719279f378d6500d84e012b7c3410e56bb9c9d0d3f236c668420020e0b597f284ba033b05fce37f92488b0113126d1b5ad68fd

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate

TITLE	SEVERITY	DESCRIPTION
Application vulnerable to Janus Vulnerability	high	Application is signed with v1 signature scheme, making it vulnerable to Janus vulnerability on Android 5.0-8.0, if signed only with v1 signature scheme. Applications running on Android 5.0-7.0 signed with v1, and v2/v3 scheme is also vulnerable.

⋮ APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.NFC	normal	control Near-Field Communication	Allows an application to communicate with Near-Field Communication (NFC) tags, cards and readers.
android.permission.VIBRATE	normal	control vibrator	Allows the application to control the vibrator.

命 APKID ANALYSIS

FILE	DETAILS		
classes.dex	FINDINGS	DETAILS	
Classes.dex	Compiler	dx	



ACTIVITY	INTENT
WriteActivity	Schemes: file://, Hosts: *, Mime Types: text/plain, */*, Path Patterns: .*\\.kdb, .********\

△ NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

Q MANIFEST ANALYSIS

NO	ISSUE	SEVERITY	DESCRIPTION
1	Application Data can be Backed up [android:allowBackup=true]	warning	This flag allows anyone to backup your application data via adb. It allows users who have enabled USB debugging to copy application data off of the device.
2	Activity (WriteActivity) is not Protected. An intent-filter exists.	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. The presence of intent-filter indicates that the Activity is explicitly exported.

NO	ISSUE	SEVERITY	DESCRIPTION
3	Activity (com.ipaulpro.afilechooser.FileChooserActivity) is not Protected. An intent-filter exists.	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. The presence of intent-filter indicates that the Activity is explicitly exported.
4	Activity (ReadActivity) is not Protected. An intent-filter exists.	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. The presence of intent-filter indicates that the Activity is explicitly exported.

</> CODE ANALYSIS

NO	ISSUE	SEVERITY	STANDARDS	FILES
1	The App logs information. Sensitive information should never be logged.	info	CWE: CWE-532: Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	pl/net/szafraniec/NFCKey/ad.java com/ianhanniballake/localstorage/LocalStorag eProvider.java
2	App can read/write to External Storage. Any App can read data written to External Storage.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	com/ipaulpro/afilechooser/FileChooserActivity .java com/ipaulpro/afilechooser/a/a.java com/ipaulpro/afilechooser/c.java com/ianhanniballake/localstorage/LocalStorag eProvider.java
3	App creates temp file. Sensitive information should never be written into a temp file.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	com/ianhanniballake/localstorage/LocalStorag eProvider.java

■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
1	FCS_RBG_EXT.1.1	Security Functional Requirements	Random Bit Generation Services	The application invoke platform-provided DRBG functionality for its cryptographic operations.
2	FCS_STO_EXT.1.1	Security Functional Requirements	Storage of Credentials	The application does not store any credentials to non-volatile memory.
3	FCS_CKM_EXT.1.1	Security Functional Requirements	Cryptographic Key Generation Services	The application generate no asymmetric cryptographic keys.
4	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to ['NFC'].
5	FDP_DEC_EXT.1.2	Security Functional Requirements	Access to Platform Resources	The application has access to no sensitive information repositories.
6	FDP_NET_EXT.1.1	Security Functional Requirements	Network Communications	The application has no network communications.
7	FDP_DAR_EXT.1.1	Security Functional Requirements	Encryption Of Sensitive Application Data	The application implement functionality to encrypt sensitive data in non-volatile memory.
8	FMT_MEC_EXT.1.1	Security Functional Requirements	Supported Configuration Mechanism	The application invoke the mechanisms recommended by the platform vendor for storing and setting configuration options.
9	FTP_DIT_EXT.1.1	Security Functional Requirements	Protection of Data in Transit	The application does encrypt some transmitted data with HTTPS/TLS/SSH between itself and another trusted IT product.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
10	FCS_RBG_EXT.2.1,FCS_RBG_EXT.2.2	Selection-Based Security Functional Requirements	Random Bit Generation from Application	The application perform all deterministic random bit generation (DRBG) services in accordance with NIST Special Publication 800-90A using Hash_DRBG. The deterministic RBG is seeded by an entropy source that accumulates entropy from a platform-based DRBG and a software-based noise source, with a minimum of 256 bits of entropy at least equal to the greatest security strength (according to NIST SP 800-57) of the keys and hashes that it will generate.
11	FCS_COP.1.1(1)	Selection-Based Security Functional Requirements	Cryptographic Operation - Encryption/Decryption	The application perform encryption/decryption not in accordance with FCS_COP.1.1(1), AES-ECB mode is being used.
12	FCS_CKM.1.1(2)	Optional Security Functional Requirements	Cryptographic Symmetric Key Generation	The application shall generate symmetric cryptographic keys using a Random Bit Generator as specified in FCS_RBG_EXT.1 and specified cryptographic key sizes 128 bit or 256 bit.

Q DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
play.google.com	ok	IP: 142.251.36.46 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map



POSSIBLE SECRETS	
"Password" : "Password"	
"Password" : "Hasło"	

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