

ANDROID STATIC ANALYSIS REPORT



• ApnSwitch (1.20111211)

File Name:	installer91.apk
Package Name:	ch.blinkenlights.android.apnswitch
Scan Date:	May 31, 2022, 12:09 p.m.
App Security Score:	45/100 (MEDIUM RISK)
Grade:	

FINDINGS SEVERITY

派 HIGH	▲ MEDIUM	i INFO	✓ SECURE	≪ HOTSPOT
2	3	1	1	1

FILE INFORMATION

File Name: installer91.apk

Size: 0.04MB

MD5: d66135d4b03d943e505d3fb53404727d

SHA1: cc3b6138a1ec42398a58e1d60482175d275c61fc

SHA256: b522a9e11ae57b191c6106ebbc23238e165cb2e611e33d6e814fec4c4110b322

i APP INFORMATION

App Name: ApnSwitch

Package Name: ch.blinkenlights.android.apnswitch

Main Activity: Target SDK: 8 Min SDK: 4 Max SDK:

Android Version Name: 1.20111211 Android Version Code: 132351998

EE APP COMPONENTS

Activities: 0 Services: 0 Receivers: 1 Providers: 0

Exported Activities: O Exported Services: O Exported Receivers: 1 Exported Providers: O



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: 2012-10-03 12:34:15+00:00 Valid To: 2040-02-19 12:34:15+00:00

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

Serial Number: 0x506c30c7 Hash Algorithm: sha1

md5: 0425cdb97321f5b3f608d177caf2748e

sha1: e30e071c59402b947e0fb2d0591e6ca8e305ad11

sha256: e8e10844f48188276d9e19720690bce8a6ec73daa01d6782d251dc285cdeda2e

sha512: 86d0b327cd9f43c3f34f62ad8010284736f99c8b5579817768555618c3c88e7f7691d422323701fc6fe755ce5c3d250dfca11af7341377e79da52d77fb2abbc6

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.
Certificate algorithm might be vulnerable to hash collision	high	Application is signed with SHA1withRSA. SHA1 hash algorithm is known to have collision issues.

⋮ APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.CHANGE_NETWORK_STATE	normal	change network connectivity	Allows applications to change network connectivity state.
android.permission.WRITE_APN_SETTINGS	dangerous	write Access Point Name settings	Allows an application to modify the APN settings, such as Proxy and Port of any APN.

命 APKID ANALYSIS

FILE

FILE	DETAILS		
classes.dex	FINDINGS	DETAILS	
	Compiler	dx	

△ NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

Q MANIFEST ANALYSIS

NC	ISSUE	SEVERITY	DESCRIPTION
1	Application Data can be Backed up [android:allowBackup] flag is missing.	warning	The flag [android:allowBackup] should be set to false. By default it is set to true and 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	Broadcast Receiver (ApnSwitch) is not Protected. An intent-filter exists.	warning	A Broadcast Receiver 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 Broadcast Receiver 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	ch/blinkenlights/android/apnswitch/ApnLe gacy.java ch/blinkenlights/android/apnswitch/ApnS witch.java ch/blinkenlights/android/apnswitch/ApnIC S.java
2	Files may contain hardcoded sensitive information like usernames, passwords, keys etc.	warning	CWE: CWE-312: Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	ch/blinkenlights/android/apnswitch/ApnD ao.java

■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
1	FCS_STO_EXT.1.1	Security Functional Requirements	Storage of Credentials	The application does not store any credentials to non-volatile memory.
2	FCS_CKM_EXT.1.1	Security Functional Requirements	Cryptographic Key Generation Services	The application generate no asymmetric cryptographic keys.
3	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to ['network connectivity'].

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
4	FDP_DEC_EXT.1.2	Security Functional Requirements	Access to Platform Resources	The application has access to no sensitive information repositories.
5	FDP_NET_EXT.1.1	Security Functional Requirements	Network Communications	The application has no network communications.
6	FDP_DAR_EXT.1.1	Security Functional Requirements	Encryption Of Sensitive Application Data	The application does not encrypt files in non-volatile memory.
7	FTP_DIT_EXT.1.1	Security Functional Requirements	Protection of Data in Transit	The application does not encrypt any data in traffic or does not transmit any data between itself and another trusted IT product.

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