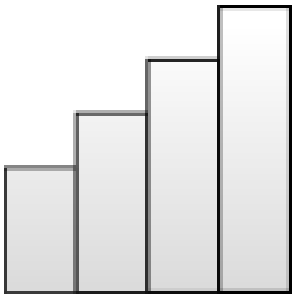
MOBSF

ANDROID STATIC ANALYSIS REPORT



Open WiFi Cleaner

(@string/version)

File Name:	installer118.apk
Package Name:	com.dje.openwifinetworkremover
Scan Date:	May 31, 2022, 11:50 a.m.
App Security Score:	53/100 (MEDIUM RISK)
Grade:	B

FINDINGS SEVERITY

HIGH	MEDIUM	INFO	SECURE	HOTSPOT
1	4	1	1	0

FILE INFORMATION

File Name: installer118.apk
Size: 0.6MB
MD5: f77214bfbe94aa61dae4c0e3de01642d
SHA1: dfc13a480010b54e982a0ed1df24ea6d3172172e
SHA256: ae8081217e52ec94639b49b13614a8ea2ce70ecdf00eeefa9fad341837845e9d

APP INFORMATION

App Name: Open WiFi Cleaner
Package Name: com.dje.openwifinetworkremover
Main Activity: com.dje.openwifinetworkremover.MainActivity
Target SDK: 21
Min SDK: 8
Max SDK:
Android Version Name: @string/version
Android Version Code: 27

APP COMPONENTS

Activities: 2
Services: 0
Receivers: 1
Providers: 0
Exported Activities: 0
Exported Services: 0
Exported Receivers: 1
Exported Providers: 0

CERTIFICATE INFORMATION

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: 2013-12-15 10:45:09+00:00
Valid To: 2041-05-02 10:45:09+00:00
Issuer: C=UK, ST=ORG, L=ORG, O=fdroid.org, OU=FDroid, CN=FDroid
Serial Number: 0x65f9aef3
Hash Algorithm: sha256
md5: 9974b13639d644f41a676c08a2be7d8c
sha1: 577a98a663ed17407c233d28c7bad6db6a2b1769
sha256: 6b985c28fc113386ee4acab5dde71ebf0c9fe94dc867217a90cebdca4ab4ee20
sha512: 3b5600b7d8458a45d2c170e219500ba8596550de45514cc99857bcd32cafacc3b320819dcc2c49f25a7fcdf2dcc44db13e62fd43fa4d46dc59edfe6b796f07ae

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.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.ACCESS_WIFI_STATE	normal	view Wi-Fi status	Allows an application to view the information about the status of Wi-Fi.
android.permission.CHANGE_WIFI_STATE	normal	change Wi-Fi status	Allows an application to connect to and disconnect from Wi-Fi access points and to make changes to configured Wi-Fi networks.
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.

APKID ANALYSIS

FILE	DETAILS

FILE	DETAILS
classes.dex	<table><tr><th>FINDINGS</th><th>DETAILS</th></tr><tr><td>Compiler</td><td>dx (possible dexmerge)</td></tr><tr><td>Manipulator Found</td><td>dexmerge</td></tr></table>

NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

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.

NO	ISSUE	SEVERITY	DESCRIPTION
2	Broadcast Receiver (com.dje.openwifinetworkremover.WifiConnectionHandler) 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	com/dje/goodies/debugging/Debug.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/dje/goodies/debugging/Debug.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.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
3	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to ['network connectivity'].
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	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.
8	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.

DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION

DOMAIN	STATUS	GEOLOCATION
github.com	ok	**IP:** 140.82.121.3 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
gnu.org	ok	**IP:** 209.51.188.116 **Country:** United States of America **Region:** Massachusetts **City:** Boston **Latitude:** 42.358429 **Longitude:** -71.059769 **View:** Google Map

HARDCODED SECRETS

POSSIBLE SECRETS
"settings_key" : "com.dje.openwifinetworkremover.settings"
"settings_backup_key" : "settings"

Report Generated by - MobSF v3.5.2 Beta

Mobile Security Framework (MobSF) is an automated, all-in-one mobile application (Android/iOS/Windows) pen-testing, malware analysis and security assessment framework capable of performing static and dynamic analysis.