

ANDROID STATIC ANALYSIS REPORT



WiFi Automatic (1.8.5)

File Name:	installer346.apk
Package Name:	de.j4velin.wifiAutoOff
Scan Date:	May 31, 2022, 2:29 p.m.
App Security Score:	52/100 (MEDIUM RISK)
Grade:	

FINDINGS SEVERITY

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

FILE INFORMATION

File Name: installer346.apk

Size: 1.07MB

MD5: 39b6de2060b1a65609784115a527dda3

SHA1: 2dbc1d78a27df8e575aedfd41b69c86f61e0eb9a

SHA256: 69500a15341e1cdebeccdcd2a367f7b2f6a561c5540b3d68170656453c0c5aab

i APP INFORMATION

App Name: WiFi Automatic

Package Name: de.j4velin.wifiAutoOff

Main Activity: de.j4velin.wifiAutoOff.Preferences

Target SDK: 27 Min SDK: 14 Max SDK:

Android Version Name: 1.8.5
Android Version Code: 1850

APP COMPONENTS

Activities: 1 Services: 4 Receivers: 3 Providers: 0

Exported Activities: 0 Exported Services: 2 Exported Receivers: 3 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: 2014-01-20 13:23:51+00:00 Valid To: 2041-06-07 13:23:51+00:00

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

Serial Number: 0x4102a15d Hash Algorithm: sha256

md5: 47866bd2ebbdd7b7dfc855d01ceaf6b6

sha1: 46bf68764890530582c7645e90120d7dcf9d198c

sha256: db0a4ae46bcab0a125b30356583f8ba8f9c829815189d94609b3c9a14199db1a

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.RECEIVE_BOOT_COMPLETED	normal	automatically start at boot	Allows an application to start itself as soon as the system has finished booting. This can make it take longer to start the phone and allow the application to slow down the overall phone by always running.
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.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.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.



FILE	DETAILS		
classes.dex	FINDINGS	DETAILS	
	Compiler	dx	

△ 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	Broadcast Receiver (de.j4velin.wifiAutoOff.Receiver) 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.
3	Broadcast Receiver (de.j4velin.wifiAutoOff.UnlockReceiver) 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.

NO	ISSUE	SEVERITY	DESCRIPTION
4	Broadcast Receiver (de.j4velin.wifiAutoOff.StartReceiver) 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.
5	Service (de.j4velin.wifiAutoOff.LogDeleteService) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.BIND_JOB_SERVICE [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
6	Service (de.j4velin.wifiAutoOff.QSTileService) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.BIND_QUICK_SETTINGS_TILE [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.

</> CODE ANALYSIS

NO	ISSUE	SEVERITY	STANDARDS	FILES
1	App uses SQLite Database and execute raw SQL query. Untrusted user input in raw SQL queries can cause SQL Injection. Also sensitive information should be encrypted and written to the database.	warning	CWE: CWE-89: Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') OWASP Top 10: M7: Client Code Quality	de/j4velin/wifiAuto Off/j.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'].
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 encrypt some transmitted data with HTTPS/TLS/SSH between itself and another trusted IT product.

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
j4velin.de	ok	IP: 188.68.39.216 Country: Germany Region: Baden-Wurttemberg City: Karlsruhe Latitude: 49.004719 Longitude: 8.385830 View: Google Map

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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.

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