

ANDROID STATIC ANALYSIS REPORT



• Wi-Fi Matic (1.3.5)

File Name:	installer231.apk
Package Name:	org.cprados.wificellmanager
Scan Date:	May 31, 2022, 3 p.m.
App Security Score:	54/100 (MEDIUM RISK)
Grade:	

FINDINGS SEVERITY

派 HIGH	▲ MEDIUM	i INFO	✓ SECURE	♥ HOTSPOT
1	3	1	1	1

FILE INFORMATION

File Name: installer231.apk

Size: 0.34MB

MD5: 2a669ad091ff3648ab81b88b275ac77d

SHA1: dc66c641f55df4e33541f7042e696a40405c609b

SHA256: 3215203274fb5853c27ae01ea5acbbefdb856c5d213a54bfd7db92239900658b

i APP INFORMATION

App Name: Wi-Fi Matic

Package Name: org.cprados.wificellmanager

Main Activity: .ui.Preferences

Target SDK: 18 Min SDK: 8 Max SDK:

Android Version Name: 1.3.5 Android Version Code: 18

B APP COMPONENTS

Activities: 8 Services: 2 Receivers: 2 Providers: 0

Exported Activities: O Exported Services: O Exported Receivers: 2 Exported Providers: O

***** 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: 2014-01-07 12:26:42+00:00 Valid To: 2041-05-25 12:26:42+00:00

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

Serial Number: 0x717f0d0d Hash Algorithm: sha256

md5: c1f155002395fd61ae049a3b96c9e81f

sha1: d87d7688fba613a37666f0f8eb6e6ea46a21398f

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_COARSE_LOCATION	dangerous	coarse (network- based) location	Access coarse location sources, such as the mobile network database, to determine an approximate phone location, where available. Malicious applications can use this to determine approximately where you are.
android.permission.ACCESS_FINE_LOCATION	dangerous	fine (GPS) location	Access fine location sources, such as the Global Positioning System on the phone, where available. Malicious applications can use this to determine where you are and may consume additional battery power.
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.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.

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.
com.android.vending.BILLING	unknown	Unknown permission	Unknown permission from android reference
android.permission.CHANGE_NETWORK_STATE	normal	change network connectivity	Allows applications to change network connectivity state.

M APKID ANALYSIS

FILE	DETAILS				
	FINDINGS	DETAILS			
classes.dex	Compiler	dx (possible dexmerge)			
	Manipulator Found	dexmerge			
		<u>. </u>			

△ NETWORK SECURITY

NO SCOPE SEVERITY	DESCRIPTION
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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 (.EventReceiver) 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 (.billing.BillingReceiver) 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
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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	org/cprados/wificellmanager/RequestedAction Manager.java org/cprados/wificellmanager/ui/Preferences.ja va org/cprados/wificellmanager/billing/BillingRec eiver.java org/cprados/wificellmanager/billing/BillingSer vice.java org/cprados/wificellmanager/billing/Purchase Observer.java org/cprados/wificellmanager/billing/Security.j ava org/cprados/wificellmanager/billing/Security.j ava org/cprados/wificellmanager/sys/AuditTrailMa nager.java org/cprados/wificellmanager/ManagerService.j ava org/cprados/wificellmanager/sys/WifiStateMa nager.java org/cprados/wificellmanager/sys/MobileData Manager.java org/cprados/wificellmanager/DataManager.java org/cprados/wificellmanager/DataManager.java a org/cprados/wificellmanager/ui/TimeIntervalP references.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.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
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 ['network connectivity', 'location'].
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 does not encrypt files 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 not encrypt any data in traffic or does not transmit any data 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.

Q DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
www.amazon.com	ok	IP: 108.156.66.76 Country: United States of America Region: Washington City: Redmond Latitude: 47.682899 Longitude: -122.120903 View: Google Map
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

DOMAIN	STATUS	GEOLOCATION
sites.google.com	ok	IP: 142.250.179.206 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map



EMAIL	FILE
wifimatic.app@gmail.com	Android String Resource

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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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