



ANDROID STATIC ANALYSIS REPORT



 AndrOBD (V2.2.1)

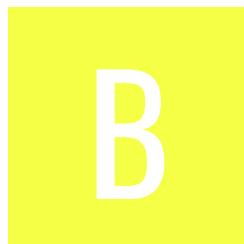
File Name: installer37.apk

Package Name: com.fr3ts0n.ecu.gui.androbd






Scan Date: May 31, 2022, 4:56 p.m.

App Security Score: 45/100 (MEDIUM RISK)

Grade:



FINDINGS SEVERITY

 HIGH	 MEDIUM	 INFO	 SECURE	 HOTSPOT
2	4	1	1	1

FILE INFORMATION

File Name: installer37.apk

Size: 1.24MB

MD5: 97d8181c7b06172cdec051502323845

SHA1: 48bc3b8ebf4cb044faa121d5198f0e4d4bd63dec

SHA256: 87d7895b985ca022edb2768f0b1dae71e6f1ddb778b72410b59537ded8c71e7e

APP INFORMATION

App Name: AndrOBD

Package Name: com.fr3ts0n.ecu.gui.androbd

Main Activity: com.fr3ts0n.ecu.gui.androbd.MainActivity

Target SDK: 25

Min SDK: 17

Max SDK:

Android Version Name: V2.2.1

Android Version Code: 20201

APP COMPONENTS

Activities: 6

Services: 1

Receivers: 0

Providers: 0

Exported Activities: 0

Exported Services: **1**

Exported Receivers: 0

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: 2015-05-26 20:34:55+00:00

Valid To: 2042-10-11 20:34:55+00:00

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

Serial Number: 0x7bb219bc

Hash Algorithm: sha256

md5: 9b4554664941a3060e7615c8b75dfecd

sha1: 80661616862195b9602a5e138cf1f75098b1a507

sha256: 60d7575f56e8fe0e268365d0f90a8430721a0288f30f191435b12398ec1a3990

sha512: 8c4d7c3da55ca8b91d28f672776b444e891bbd8debd98b432fa74e7f66f7f40f98fc491d9a0cc4dbb5d903f0882acaa976cb56d1e7d136a7b6f263a8531c0a1d

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.BLUETOOTH_ADMIN	normal	bluetooth administration	Allows applications to discover and pair bluetooth devices.
android.permission.BLUETOOTH	normal	create Bluetooth connections	Allows applications to connect to paired bluetooth devices.
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.READ_EXTERNAL_STORAGE	dangerous	read external storage contents	Allows an application to read from external storage.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.

APKID ANALYSIS

FILE	DETAILS	
classes.dex	FINDINGS	DETAILS
	Compiler	r8

NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION
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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	Service (com.fr3ts0n.androbd.plugin.mgr.PluginDataService) is not Protected. [android:exported=true]	high	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.

</> CODE ANALYSIS

NO	ISSUE	SEVERITY	STANDARDS	FILES
1	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	com/fr3ts0n/pvs/io/PvXMLWriter.java
2	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/fr3ts0n/androbd/plugin/PluginReceiver.java com/hoho/android/usbserial/driver/CommonUsbSerialPort.java com/hoho/android/usbserial/util/SerialInputOutputManager.java com/hoho/android/usbserial/driver/CdcAcmSerialDriver.java com/hoho/android/usbserial/driver/FtdiSerialDriver.java com/fr3ts0n/androbd/plugin/Plugin.java com/hoho/android/usbserial/driver/ProlificSerialDriver.java com/fr3ts0n/androbd/plugin/mgr/PluginHandler.java
3	The App uses an insecure Random Number Generator.	warning	CWE: CWE-330: Use of Insufficiently Random Values OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-6	com/github/anatr/speedviewlib/Gauge.java
4	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/fr3ts0n/ecu/gui/androbd/Screenshot.java com/fr3ts0n/ecu/gui/androbd/FileHelper.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 use no 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 ['network connectivity', 'bluetooth', 'USB'].
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 user/application initiated 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 encrypt some transmitted data with HTTPS/TLS/SSH between itself and another trusted IT product.

DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
xml.apache.org	ok	IP: 151.101.2.132 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
www.makedonov.ru	ok	No Geolocation information available.
hosted.weblate.org	ok	IP: 116.203.108.97 Country: Germany Region: Bayern City: Gunzenhausen Latitude: 48.323330 Longitude: 11.601220 View: Google Map
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

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.

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