

## ANDROID STATIC ANALYSIS REPORT



**•** 2050 (1.0.7)

File Name:	installer57.apk
Package Name:	org.mattvchandler.a2050
Scan Date:	May 31, 2022, 12:51 p.m.
App Security Score:	73/100 (LOW RISK)
Grade:	A

#### FINDINGS SEVERITY

<del>派</del> HIGH	▲ MEDIUM	<b>i</b> INFO	✓ SECURE	≪ HOTSPOT
0	2	1	1	1

#### FILE INFORMATION

File Name: installer57.apk

Size: 4.2MB

MD5: cbbcf02f6a1d07b24d34d6c4bb98bd34

**SHA1**: 5457b6718bcdf19ad23bbdf4cfd336ac936c9617

SHA256: 404ba7e94a408b3478708fa40dbd823acc4917b20424bc3f8c467cc0a9c91df1

#### **i** APP INFORMATION

App Name: 2050

Package Name: org.mattvchandler.a2050

Main Activity: org.mattvchandler.a2050.MainActivity

Target SDK: 28 Min SDK: 19 Max SDK:

Android Version Name: 1.0.7
Android Version Code: 190010007

#### **B** APP COMPONENTS

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

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

## **\*** CERTIFICATE INFORMATION

APK is signed v1 signature: True v2 signature: True v3 signature: False

Found 1 unique certificates

Subject: C=US, ST=Alaska, L=Fairbanks, CN=Matthew Chandler

Signature Algorithm: rsassa\_pkcs1v15 Valid From: 2017-06-10 00:44:18+00:00 Valid To: 2042-06-04 00:44:18+00:00

Issuer: C=US, ST=Alaska, L=Fairbanks, CN=Matthew Chandler

Serial Number: 0x33fba1a1 Hash Algorithm: sha256

md5: 231d82c7577b9916741598a293b799f8

sha1: fdf75533d4910f245317af5f5f6adea564170038

sha256: 34f0dc5c6b4f67953cf1de1831b07127b4fb95e15dd5934534225491549f4388

sha512: b83e0ee6900b7d7d88845541f03fa4433c75c33bcd2edee3a1fe6841a66c2d143b758f6762772705e9598fa78b90c3a5e33d52d0f13be20f863a9abfad53d0bb

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: c61480763cb9fc98504e9a475cb5676c122ca492e10e2bedfdaf395397addfb6

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate
Application vulnerable to Janus Vulnerability	warning	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_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.

## **M** APKID ANALYSIS

FILE	DETAILS	
classes.dex	FINDINGS	DETAILS
Classes.uex	Compiler	r8



NO	SCORE	SEVERITY	DESCRIPTION	
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.

## </> CODE ANALYSIS

NO	ISSUE	SEVERITY	STANDARDS	FILES
				a/h/c/c.java a/b/g/Z.java a/b/f/a/h.java a/h/a/i.java a/h/a/e.java a/h/h/u.java a/s/V.java org/mattvchandler/a2050/MainActivit y.java a/h/g/a.java a/h/g/a.java a/l/a/v.java a/l/a/v.java a/l/a/C0077a.java a/h/c/i.java a/h/c/e.java

NO ISSUE SEVERITY STANDARDS 局場	n/h/AbstractC0075b.java n/h/AbstractC0075b.java
The App logs information. Sensitive information should never be logged.  The App logs information. Sensitive information into log File OWASP MASVS: MSTG-STORAGE-3  CWE: CWE-532: Insertion of Sensitive Information into b/b org; a a/b/a/b/a/b/a/b/a/b/a/b/a/b/a/b/a/b/a	/a/a/o.java /a/a/o.java /a/a/j.java /a/a/j.java /a/a/j.java /a/a/j.java /a/a/j.java /a/a/j.java /a/a/a/j.java /a/a/a/g.java /a/a/a/g.java /a/a/a/g.java /a/b/b.java /a/ActivityC0085i.java /a/ActivityC0085i.java /a/c/a/d.java /a/a/c.java /a/g/La.java /a/g/Fa.java /a/g/C0037aa.java /a/g/C0037aa.java /a/a/f.java /a/a/f.java /a/a/f.java /b/c.java

## SHARED LIBRARY BINARY ANALYSIS

NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
1	lib/armeabi-v7a/lib2050.so	True info The shared object has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable.	True info This shared object has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The shared object does not have run-time search path or RPATH set.	None info The shared object does not have RUNPATH set.	False warning The shared object does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option - D_FORTIFY_SOURCE=2 to fortify functions.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
2	lib/x86/lib2050.so	True info The shared object has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable.	True info This shared object has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The shared object does not have run-time search path or RPATH set.	None info The shared object does not have RUNPATH set.	False warning The shared object does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option - D_FORTIFY_SOURCE=2 to fortify functions.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
3	lib/arm64-v8a/lib2050.so	True info The shared object has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable.	True info This shared object has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The shared object does not have run-time search path or RPATH set.	None info The shared object does not have RUNPATH set.	False warning The shared object does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option - D_FORTIFY_SOURCE=2 to fortify functions.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
4	lib/x86_64/lib2050.so	True info The shared object has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable.	True info This shared object has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The shared object does not have run-time search path or RPATH set.	None info The shared object does not have RUNPATH set.	False warning The shared object does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option - D_FORTIFY_SOURCE=2 to fortify functions.	True info Symbols are stripped.

## ■ 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	he application generate no asymmetric cryptographic keys.		
3	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to ['location'].		
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
schemas.android.com	ok	No Geolocation information available.

#### 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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