

ANDROID STATIC ANALYSIS REPORT

app_icon

GPSMapApp (1.0)

File Name:	app-debug.apk
Package Name:	com.example.gpsmapapp
Scan Date:	Oct. 22, 2024, 2:17 a.m.
App Security Score:	44/100 (MEDIUM RISK)
Grade:	

FINDINGS SEVERITY

派 HIGH	▲ MEDIUM	i INFO	✓ SECURE	◎ HOTSPOT
2	2	0	1	1

FILE INFORMATION

File Name: app-debug.apk

Size: 12.58MB

MD5: a4fb66b4e5115c1b7c77316d7fb70ede

SHA1: 0026ff50b1d06ae1507efd5aaaf35fcb52e58deb

SHA256: 2798210f567729c83c6c9211dd56d34bd1c563ae6c986af07ed95d7a09cb3061

i APP INFORMATION

App Name: GPSMapApp

Package Name: com.example.gpsmapapp

Main Activity: com.example.gpsmapapp.MainActivity

Target SDK: 34 Min SDK: 29 Max SDK:

Android Version Name: 1.0 **Android Version Code:** 1

B APP COMPONENTS

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

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

***** CERTIFICATE INFORMATION

Binary is signed v1 signature: False v2 signature: True v3 signature: False v4 signature: False

X.509 Subject: CN=Android Debug, O=Android, C=US

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2024-09-08 23:54:39+00:00 Valid To: 2054-09-01 23:54:39+00:00

Issuer: CN=Android Debug, O=Android, C=US

Serial Number: 0x1 Hash Algorithm: sha256

md5: e55f3167c31b7cf61d71674074c9ef0a

sha1: abdd3fdf123cdf30ac7b88eeeef89480f3a756b1

sha256: e0dc3a73a513d8abc1b3ebc2126cd91c9d2561a96f498b0528fac298f6e5008a

sha512: bce176063 dae0 d32 e7734 e4ce08066 fbef5 df83c383c93 dd18316 e46 e89 d883 db441 a22c01 a29a0b47cc6189 e90651 d7c83257 cdc0 c769b4 de54644 cb34547 affection and the state of the

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: 73e29ea78d358943519262cf13596b5dcd928e9d19becc15800a159c0b8a7591

Found 1 unique certificates

⋮ 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.
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_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.
com.example.gpsmapapp.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference



FILE	DETAILS			
	FINDINGS	DETAILS		
classes3.dex	yara_issue	yara issue - dex file recognized by apkid but not yara module		
	Compiler	unknown (please file detection issue!)		
	FINDINGS	DETAILS		
classes2.dex	yara_issue	yara issue - dex file recognized by apkid but not yara module		
	Compiler	unknown (please file detection issue!)		
	FINDINGS	DETAILS		
classes4.dex	yara_issue	yara issue - dex file recognized by apkid but not yara module		
	Compiler	unknown (please file detection issue!)		

FILE	DETAILS	
	FINDINGS	DETAILS
	yara_issue	yara issue - dex file recognized by apkid but not yara module
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.BRAND check
	Compiler	unknown (please file detection issue!)

△ NETWORK SECURITY

	NO	SCOPE	SEVERITY	DESCRIPTION	
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CERTIFICATE ANALYSIS

HIGH: 1 | WARNING: 0 | INFO: 1

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate

TITLE	SEVERITY	DESCRIPTION
Application signed with debug certificate	high	Application signed with a debug certificate. Production application must not be shipped with a debug certificate.

Q MANIFEST ANALYSIS

HIGH: 1 | WARNING: 2 | INFO: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	DESCRIPTION
1	Debug Enabled For App [android:debuggable=true]	high	Debugging was enabled on the app which makes it easier for reverse engineers to hook a debugger to it. This allows dumping a stack trace and accessing debugging helper classes.
2	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.
3	Broadcast Receiver (androidx.profileinstaller.ProfileInstallReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.DUMP [android:exported=true]	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. 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

■ NIAP ANALYSIS v1.3

NO IDENTIFIER REQUIREMENT FEATURE DESCRIPTION

***: ::** ABUSED PERMISSIONS

ТҮРЕ	MATCHES	PERMISSIONS
Malware Permissions	4/24	android.permission.ACCESS_FINE_LOCATION, android.permission.ACCESS_COARSE_LOCATION, android.permission.ACCESS_NETWORK_STATE, android.permission.INTERNET
Other Common Permissions	0/45	

Malware Permissions:

Top permissions that are widely abused by known malware.

Other Common Permissions:

Permissions that are commonly abused by known malware.

▶ HARDCODED SECRETS

POSSIBLE SECRETS

 $"google_maps_key": "AlzaSyBamdgouYEd_-QTO6BEn1EUynjDUwqxwTs"$

⋮≡ SCAN LOGS

Timestamp	Event	
2024-10-22 02:16:02	Generating Hashes	
2024-10-22 02:16:03	Android Permission Mapping Started	
2024-10-22 02:16:03	Extracting APK	
2024-10-22 02:16:03	Unzipping	
2024-10-22 02:16:04	Getting Hardcoded Certificates/Keystores	
2024-10-22 02:16:04	Parsing AndroidManifest.xml	
2024-10-22 02:16:04	Parsing APK with androguard	
2024-10-22 02:16:08	Extracting Manifest Data	
2024-10-22 02:16:08	Performing Static Analysis on: GPSMapApp (com.example.gpsmapapp)	

2024-10-22 02:16:08	Fetching Details from Play Store: com.example.gpsmapapp	
2024-10-22 02:16:08	Manifest Analysis Started	
2024-10-22 02:16:08	Checking for Malware Permissions	
2024-10-22 02:16:08	Fetching icon path	
2024-10-22 02:16:08	Library Binary Analysis Started	
2024-10-22 02:16:09	Reading Code Signing Certificate	
2024-10-22 02:16:11	Running APKiD 2.1.5	
2024-10-22 02:16:17	Detecting Trackers	
2024-10-22 02:16:33	Decompiling APK to Java with jadx	
2024-10-22 02:16:56	Android Permission Mapping Completed	
2024-10-22 02:16:56	Finished Code Analysis, Email and URL Extraction	

2024-10-22 02:16:56	Extracting String data from APK	
2024-10-22 02:16:57	Extracting String data from Code	
2024-10-22 02:16:57	Extracting String values and entropies from Code	
2024-10-22 02:16:57	Converting DEX to Smali	
2024-10-22 02:16:57	Code Analysis Started on - java_source	
2024-10-22 02:16:58	Performing Malware check on extracted domains	
2024-10-22 02:16:58	Saving to Database	
2024-10-22 02:17:02	Android SAST Completed	
2024-10-22 02:17:02	Android API Analysis Started	
2024-10-22 02:17:13	Android Permission Mapping Started	
2024-10-22 02:17:15	Android Permission Mapping Started	

2024-10-22 02:17:22	Android Permission Mapping Completed	
2024-10-22 02:17:22	Finished Code Analysis, Email and URL Extraction	
2024-10-22 02:17:22	Extracting String data from APK	
2024-10-22 02:17:23	Extracting String data from Code	
2024-10-22 02:17:23	Extracting String values and entropies from Code	
2024-10-22 02:17:24	Performing Malware check on extracted domains	
2024-10-22 02:17:24	Updating Database	
2024-10-22 02:17:46	Android Permission Mapping Completed	
2024-10-22 02:17:47	Finished Code Analysis, Email and URL Extraction	
2024-10-22 02:17:47	Extracting String data from APK	
2024-10-22 02:17:53	Extracting String data from Code	ОК

2024-10-22 02:17:53	Extracting String values and entropies from Code	
2024-10-22 02:17:58	Performing Malware check on extracted domains	
2024-10-22 02:17:58	Saving to Database	ОК
2024-10-22 02:18:17	Android SAST Completed	
2024-10-22 02:18:17	Android API Analysis Started	
2024-10-22 02:18:29	Android Permission Mapping Started	
2024-10-22 02:19:05	Converting DEX to Smali	
2024-10-22 02:19:05	Code Analysis Started on - java_source	
2024-10-22 02:19:14	Android SAST Completed	
2024-10-22 02:19:14	Android API Analysis Started	
2024-10-22 02:19:30	Android Permission Mapping Completed	

2024-10-22 02:19:31	Finished Code Analysis, Email and URL Extraction	
2024-10-22 02:19:31	Extracting String data from APK	
2024-10-22 02:19:32	Extracting String data from Code	
2024-10-22 02:19:32	Extracting String values and entropies from Code	
2024-10-22 02:19:37	Performing Malware check on extracted domains	
2024-10-22 02:19:37	Saving to Database	
2024-10-22 02:20:02	Android SAST Completed	
2024-10-22 02:20:02	Android API Analysis Started	
2024-10-22 02:21:16	Android SAST Completed	
2024-10-22 02:21:16	Android API Analysis Started	
2024-10-22 02:23:11	Android SAST Completed	

2024-10-22 02:23:11	Android API Analysis Started	
2024-10-22 02:23:19	Android Permission Mapping Started	
2024-10-22 02:23:55	Android Permission Mapping Completed	
2024-10-22 02:23:55	Finished Code Analysis, Email and URL Extraction	ОК
2024-10-22 02:23:55	Extracting String data from APK	
2024-10-22 02:23:55	Extracting String data from Code	
2024-10-22 02:23:55	Extracting String values and entropies from Code	
2024-10-22 02:23:58	Performing Malware check on extracted domains	
2024-10-22 02:23:58	Saving to Database	

Report Generated by - MobSF v4.0.7

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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