MOBSF

ANDROID STATIC ANALYSIS REPORT

app_icon

GpsMapsPrueba (1.0)

File Name:	app-debug.apk
Package Name:	com.example.maps
Scan Date:	Oct. 28, 2024, 8:48 p.m.
App Security Score:	36/100 (HIGH RISK)
Grade:	C

FINDINGS SEVERITY

HIGH	MEDIUM	INFO	SECURE	HOTSPOT
3	2	0	1	1

FILE INFORMATION

File Name: app-debug.apk
Size: 6.09MB
MD5: 928d9a71f25ec5414d00f976b070037a
SHA1: 9bcf5273a7053ef8fd7e49dc5c10105fd98afa75
SHA256: 91e11f00f8a816b92e5a7c18bb5d3a6bf7e33ab3d97cbc3effa9645cd2b74bc7

APP INFORMATION

App Name: GpsMapsPrueba
Package Name: com.example.maps
Main Activity: com.example.maps.MainActivity
Target SDK: 34
Min SDK: 24
Max SDK:
Android Version Name: 1.0
Android Version Code: 1

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: 2024-09-01 00:42:02+00:00
Valid To: 2054-08-25 00:42:02+00:00
Issuer: CN=Android Debug, O=Android, C=US
Serial Number: 0x1
Hash Algorithm: sha256
md5: 739f84b518eb142f291622236f1b749b
sha1: beabbb0949013258ceae5623246c0b5448c0c7b2
sha256: 5fbfb83e8c1e7fcef5d69d38573de33c22210cebd14b79354f3b429698c44b8b
sha512: 553ffe41007075dbb2e49b27f1f16a87e4a6ca1bd4d67ea1b57969d1223cd0bfb4d6f32f21d616845e8011c8ee14a083eb23f2dabee7422b6ed0f725ea86fa0c
PublicKey Algorithm: rsa
Bit Size: 2048
Fingerprint: 19687e59b3641f6615350d6f28a0f9bad8ee288cfebb52a47a3841eb7fa5966a
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_BACKGROUND_LOCATION	dangerous	access location in background	Allows an app to access location in the background.
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.maps.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference

APKID ANALYSIS

FILE	DETAILS
classes3.dex	FINDINGS: Compiler — DETAILS: r8 without marker (suspicious)
classes2.dex	FINDINGS: Compiler — DETAILS: dx
classes4.dex	FINDINGS: Compiler — DETAILS: r8 without marker (suspicious)
classes.dex	FINDINGS: Anti-VM Code — DETAILS: Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.BRAND check FINDINGS: Compiler — DETAILS: r8 without marker (suspicious)

NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

CERTIFICATE ANALYSIS

HIGH: 1 | WARNING: 0 | INFO: 1

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate
Application signed with debug certificate	high	Application signed with a debug certificate. Production application must not be shipped with a debug certificate.

MANIFEST ANALYSIS

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

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable upatched Android version Android 7.0, [minSdk=24]	high	This application can be installed on an older version of android that has multiple unfixed vulnerabilities. These devices won't receive reasonable security updates from Google. Support an Android version => 10, API 29 to receive reasonable security updates.
2	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.
3	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.

NO	ISSUE	SEVERITY	DESCRIPTION
4	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

TYPE	MATCHES	PERMISSIONS
Malware Permissions	4/24	android.permission.ACCESS_FINE_LOCATION, android.permission.ACCESS_COARSE_LOCATION, android.permission.ACCESS_NETWORK_STATE, android.permission.INTERNET

TYPE	MATCHES	PERMISSIONS
Other Common Permissions	1/45	android.permission.ACCESS_BACKGROUND_LOCATION

Malware Permissions:
Top permissions that are widely abused by known malware.
Other Common Permissions:
Permissions that are commonly abused by known malware.

SCAN LOGS

Timestamp	Event	Error
2024-10-28 20:48:52	Generating Hashes	OK
2024-10-28 20:48:52	Extracting APK	OK
2024-10-28 20:48:52	Unzipping	OK
2024-10-28 20:48:53	Getting Hardcoded Certificates/Keystores	OK
2024-10-28 20:49:04	Parsing AndroidManifest.xml	OK

2024-10-28 20:49:04	Parsing APK with androguard	OK
2024-10-28 20:49:07	Extracting Manifest Data	OK
2024-10-28 20:49:07	Performing Static Analysis on: GpsMapsPrueba (com.example.maps)	OK
2024-10-28 20:49:07	Fetching Details from Play Store: com.example.maps	OK
2024-10-28 20:49:08	Manifest Analysis Started	OK
2024-10-28 20:49:08	Checking for Malware Permissions	OK
2024-10-28 20:49:08	Fetching icon path	OK
2024-10-28 20:49:08	Library Binary Analysis Started	OK
2024-10-28 20:49:08	Reading Code Signing Certificate	OK
2024-10-28 20:49:09	Running APKiD 2.1.5	OK
2024-10-28 20:49:17	Updating Trackers Database....	OK

2024-10-28 20:49:17	Detecting Trackers	OK
2024-10-28 20:49:22	Decompiling APK to Java with jadx	OK
2024-10-28 20:50:39	Converting DEX to Smali	OK
2024-10-28 20:50:39	Code Analysis Started on - java_source	OK
2024-10-28 20:54:11	Android SAST Completed	OK
2024-10-28 20:54:11	Android API Analysis Started	OK
2024-10-28 20:57:14	Android Permission Mapping Started	OK
2024-10-28 20:57:48	Android Permission Mapping Completed	OK
2024-10-28 20:57:48	Finished Code Analysis, Email and URL Extraction	OK
2024-10-28 20:57:48	Extracting String data from APK	OK
2024-10-28 20:57:49	Extracting String data from Code	OK

2024-10-28 20:57:49	Extracting String values and entropies from Code	OK
2024-10-28 20:57:52	Performing Malware check on extracted domains	OK
2024-10-28 20:57:52	Saving to Database	OK

Report Generated by - MobSF v4.1.0

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.