MOBSF

ANDROID STATIC ANALYSIS REPORT

Titan Companion (v67-beta)

File Name:	installer3833.apk
Package Name:	pt.joaomneto.titancompanion
Scan Date:	May 31, 2022, 7:56 p.m.
App Security Score:	54/100 (MEDIUM RISK)
Grade:	B

FINDINGS SEVERITY

HIGH	MEDIUM	INFO	SECURE	HOTSPOT
1	3	1	1	2

FILE INFORMATION

File Name: installer3833.apk
Size: 11.9MB
MD5: 7a64d3ac4e2b7c9c45c705e5011f0e8e
SHA1: 6b5e9a1e8910aa60b254452d86229950eb40a7d4
SHA256: a42b86e3df9dd5bda7910df0ab2c074b469c8f045be6ffa9dc6f0e8b344b9b04

APP INFORMATION

App Name: Titan Companion
Package Name: pt.joaomneto.titancompanion
Main Activity: pt.joaomneto.titancompanion.MainActivity
Target SDK: 29
Min SDK: 19
Max SDK:
Android Version Name: v67-beta
Android Version Code: 67

APP COMPONENTS

Activities: 94
Services: 0
Receivers: 0
Providers: 0
Exported Activities: 0
Exported Services: 0
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: 2018-06-02 05:16:51+00:00
Valid To: 2045-10-18 05:16:51+00:00
Issuer: C=UK, ST=ORG, L=ORG, O=fdroid.org, OU=FDroid, CN=FDroid
Serial Number: 0x8a2e8d0
Hash Algorithm: sha256
md5: c9b00b5e4bc1b58e11c8cbf80abce72a
sha1: af47ccbfa3680e23d6147d130e876a6d624b11fa
sha256: 12048edaa92bb7bf80d403b18831383d4e72f8efe9a49b08da29b589e3c1c26c
sha512: ee95c1058009fce34a98a44782eb3bfb0493c0202fc5b4a6aeaeb1b4e8e31454291b9e90717fb34762ddbf01ed30153b0336bc0286185b1df6aec611ca16f969

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.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.

APKID ANALYSIS

FILE	DETAILS
classes.dex	FINDINGS: Compiler — DETAILS: r8

NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

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
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	pt/joaomneto/titancompanion/MainActivity.java pt/joaomneto/titancompanion/adapter/SavegameListAdapter.java
2	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	pt/joaomneto/titancompanion/TCPreferenceActivity.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
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	pt/joaomneto/titancompanion/util/DiceRoller.java pt/joaomneto/titancompanion/adventure/impl/fragments/st/STCombatFragment.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'].
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.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
7	FDP_DAR_EXT.1.1	Security Functional Requirements	Encryption Of Sensitive Application Data	The application implement functionality to encrypt sensitive data 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.
10	FCS_COP.1.1(2)	Selection-Based Security Functional Requirements	Cryptographic Operation - Hashing	The application perform cryptographic hashing services not in accordance with FCS_COP.1.1(2) and uses the cryptographic algorithm RC2/RC4/MD4/MD5.

DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
fightingfantasy.wikia.com	ok	**IP:** 151.101.64.194 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
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

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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.