

Presence Publisher (2.2.6)

File Name:	installer384.apk
Package Name:	org.ostrya.presencepublisher
Scan Date:	May 31, 2022, 2:30 p.m.
App Security Score:	57/100 (MEDIUM RISK)
Grade:	
Trackers Detection:	1/428

FINDINGS SEVERITY

派 HIGH	▲ MEDIUM	i INFO	✓ SECURE	्र HOTSPOT
0	8	1	1	1

FILE INFORMATION

File Name: installer384.apk

Size: 2.46MB

MD5: 76e041b1b9306bfad5579277019953c6

SHA1: 36e79c3ecb214c697a527c22f89c03271ce73a97

SHA256: 34ddae2fc559007685d4fc8ea321ab9a268c45763c656ab3a1f9b7b89f584e94

1 APP INFORMATION

App Name: Presence Publisher

Package Name: org.ostrya.presencepublisher

Main Activity: org.ostrya.presencepublisher.MainActivity

Target SDK: 30 Min SDK: 14 Max SDK:

Android Version Name: 2.2.6

EE APP COMPONENTS

Activities: 1 Services: 4 Receivers: 4 Providers: 0

Exported Activities: O
Exported Services: O
Exported Receivers: 3
Exported Providers: O



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

Found 1 unique certificates

Subject: O=Me Myself and I, OU=Helbig, CN=Kai

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2018-12-25 17:36:41+00:00 Valid To: 2043-12-19 17:36:41+00:00

Issuer: O=Me Myself and I, OU=Helbig, CN=Kai

Serial Number: 0x3be16af4 Hash Algorithm: sha256

md5: 7682f85fb041ca2cb541a82131ec7c08

sha1: 7be9cced268e1282ce710128b6dcd4b5d657e94e

sha256: 90245524511b859a701640aca41eb44c21d1de3517e3ce891f912ddaeb005d03

sha512: 9256e394492a56c4b3b6a1bded2f25371cdf453f89ac85ddf525360a3f99f143c83c2049384099bb1e87f08fc1357a7fbf6d64809da2fd58f1861b2b2000c447

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: a7514684d79fadf5faa5754d765f2f2a3a67ef702b7245ef6ca42b5282e78388

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_BACKGROUND_LOCATION	dangerous	access location in background	Allows an app to access location in the background.
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_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.ACCESS_WIFI_STATE	normal	view Wi-Fi status	Allows an application to view the information about the status of Wi-Fi.
android.permission.BLUETOOTH	normal	create Bluetooth connections	Allows applications to connect to paired bluetooth devices.
android.permission.BLUETOOTH_ADMIN	normal	bluetooth administration	Allows applications to discover and pair bluetooth devices.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.RECEIVE_BOOT_COMPLETED	normal	automatically start at boot	Allows an application to start itself as soon as the system has finished booting. This can make it take longer to start the phone and allow the application to slow down the overall phone by always running.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.
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.

命 APKID ANALYSIS

FILE	DETAILS				
	FINDINGS	DETAILS			
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MANUFACTURER check			
	Compiler	unknown (please file detection issue!)			

△ NETWORK SECURITY

NO SCOPE SEVERITY DESCRIPTION	NO	SCOPE	SEVERITY	DESCRIPTION
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Q MANIFEST ANALYSIS

NO	ISSUE	SEVERITY	DESCRIPTION
1	Broadcast Receiver (org.ostrya.presencepublisher.receiver.AutostartReceiver) is not Protected. An intent-filter exists.	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. The presence of intent-filter indicates that the Broadcast Receiver is explicitly exported.
2	Broadcast Receiver (org.ostrya.presencepublisher.receiver.ConnectivityBroadcastReceiver) is not Protected. An intent-filter exists.	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. The presence of intent-filter indicates that the Broadcast Receiver is explicitly exported.
3	Broadcast Receiver (org.altbeacon.beacon.startup.StartupBroadcastReceiver) is not Protected. An intent-filter exists.	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. The presence of intent-filter indicates that the Broadcast Receiver is explicitly exported.

</> CODE ANALYSIS

NO	ISSUE	SEVERITY	STANDARDS	FILES
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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	b/g/l/h.java b/g/l/f.java b/g/l/f.java b/a/k/a/a.java b/g/l/t.java b/g/e/f.java b/g/e/c.java b/g/e/c.java b/g/e/j.java b/g/e/j.java b/g/e/j.java b/g/e/j.java b/g/e/j.java b/g/e/e.java b/g/e/e.java b/l/a/b.java b/a/o/g.java c/b/a/f.java b/g/e/k.java b/g/e/k.java b/g/e/s.java b/p/i0.java b/g/e/g.java b/g/j/b.java b/g/j/b.java b/g/j/b.java b/g/j/b.java c/a/a/a/b.java c/a/a/a/a/b.java b/g/l/c.java b/g/l/c.java b/g/l/u.java b/q/a/a/h.java c/a/a/a/e0/a/a.java b/g/l/c.java b/g/l/c.java b/g/l/u.java c/a/b/a/e0/a/a.java b/g/l/co/c.java c/a/a/a/m/h.java

NO	ISSUE	SEVERITY	STANDARDS	b/g/l/b0.java G/g/li2 d/b.java
2	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-4	org/eclipse/paho/client/mqttv3/i nternal/t/a.java org/ostrya/presencepublisher/e/a .java
3	App uses SQLite Database and execute raw SQL query. Untrusted user input in raw SQL queries can cause SQL Injection. Also sensitive information should be encrypted and written to the database.	warning	CWE: CWE-89: Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') OWASP Top 10: M7: Client Code Quality	c/b/a/e.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	c/b/a/h/b.java
5	SHA-1 is a weak hash known to have hash collisions.	warning	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	org/eclipse/paho/client/mqttv3/i nternal/websocket/e.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 invoke platform-provided DRBG functionality for its cryptographic operations.
2	FCS_STO_EXT.1.1	Security Functional Requirements	Storage of Credentials	The application invoke the functionality provided by the platform to securely store credentials to non-volatile memory.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION	
3	FCS_CKM_EXT.1.1	Security Functional Requirements	Cryptographic Key Generation Services	The application implement asymmetric key generation.	
4	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to ['network connectivity', 'bluetooth', 'location'].	
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 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_RBG_EXT.2.1,FCS_RBG_EXT.2.2	Selection-Based Security Functional Requirements	Random Bit Generation from Application	The application perform all deterministic random bit generation (DRBG) services in accordance with NIST Special Publication 800-90A using Hash_DRBG. The deterministic RBG is seeded by an entropy source that accumulates entropy from a platform-based DRBG and a software-based noise source, with a minimum of 256 bits of entropy at least equal to the greatest security strength (according to NIST SP 800-57) of the keys and hashes that it will generate.	

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION	
11	FCS_CKM.1.1(1)	Selection-Based Security Functional Requirements	Cryptographic Asymmetric Key Generation	The application generate asymmetric cryptographic keys not in accordance with FCS_CKM.1.1(1) using key generation algorithm RSA schemes and cryptographic key sizes of 1024-bit or lower.	
12	FCS_COP.1.1(1)	Selection-Based Security Functional Requirements	Cryptographic Operation - Encryption/Decryption	The application perform encryption/decryption in accordance with a specified cryptographic algorithm AES-CBC (as defined in NIST SP 800-38A) mode or AES-GCM (as defined in NIST SP 800-38D) and cryptographic key sizes 256-bit/128-bit.	
13	FCS_HTTPS_EXT.1.2	Selection-Based Security Functional Requirements	HTTPS Protocol	The application implement HTTPS using TLS.	
14	FCS_HTTPS_EXT.1.3	Selection-Based Security Functional Requirements	HTTPS Protocol	The application notify the user and not establish the connection or request application authorization to establish the connection if the peer certificate is deemed invalid.	
15	FIA_X509_EXT.2.1	Selection-Based Security Functional Requirements	X.509 Certificate Authentication	The application use X.509v3 certificates as defined by RFC 5280 to support authentication for HTTPS , TLS.	
16	FCS_CKM.1.1(2)	Optional Security Functional Requirements	Cryptographic Symmetric Key Generation	The application shall generate symmetric cryptographic keys using a Random Bit Generator as specified in FCS_RBG_EXT.1 and specified cryptographic key sizes 128 bit or 256 bit.	

Q DOMAIN MALWARE CHECK

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DOMAIN	STATUS	GEOLOCATION
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
s3.amazonaws.com	ok	IP: 52.216.35.168 Country: United States of America Region: Virginia City: Ashburn Latitude: 39.043720 Longitude: -77.487488 View: Google Map
schemas.android.com	ok	No Geolocation information available.

TRACKERS

TRACKER	CATEGORIES	URL
AltBeacon		https://reports.exodus-privacy.eu.org/trackers/219

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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