

Trace Together

ABTraceTogether (2.3.0)

ca.albertahealthservices.contacttracing_2.3.0-48_minAPl23(arm64-v8a,armeabi,armeabi-v7a,mips,mips64,x86,x86_64)

(nodpi)_apkmirror.com.apk

Package Name: ca.albertahealthservices.contacttracing

Average CVSS

Score:

6.9

App Security

Score:

45/100 (MEDIUM RISK)

Scan Date: Jan. 18, 2022, 12:55 a.m.



Size: 16.56MB

MD5: 68a2ae0751533a8674ddbba44836071f

SHA1: 85c9d9799c6bf662d1979e1e4ca58cc6713da46f

SHA256: ee3f4c4fd6d1fe216423214474d8fe1d5226b57d7c3ba0f7edbdb251af3573b6

i APP INFORMATION

App Name: ABTraceTogether

Package Name: ca.albertahealthservices.contacttracing

Main Activity: ca.albertahealthservices.contacttracing.SplashActivity

Target SDK: 30 Min SDK: 23 Max SDK:

Android Version Name: 2.3.0 Android Version Code: 48



Activities: 12 Services: 4 Receivers: 9 Providers: 2

Exported Activities: 0 Exported Services: 1 Exported Receivers: 8 Exported Providers: 0



APK is signed v1 signature: True v2 signature: True v3 signature: False Found 1 unique certificates

Subject: C=CA, ST=Alberta, L=Edmonton, O=Government of Alberta, OU=Service Alberta, CN=Unknown

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2013-10-07 15:55:31+00:00 Valid To: 2041-02-22 15:55:31+00:00

Issuer: C=CA, ST=Alberta, L=Edmonton, O=Government of Alberta, OU=Service Alberta, CN=Unknown

Serial Number: 0x604cdce2 Hash Algorithm: sha256

md5: f6476d35481a729e0eaccd49871d61c2

sha1: cd7d741acfab5e241cfadc0767503b82be585c27

sha256: 12f2e25006d9a7fad8b83651987b96dd5ea9c29a1bd4f1cdbbf2608229c9e23b

sha512: 42c9bf5619c1d8dc5a0c6d42bb9fa1c492ea36ad7dc80156fe1bcf8ec65659d66698e6eb383174c9a2af835ce6496b377414fd148ba3f1c0876ce781f0b19141

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: 46ebc53bbeb56ee3fc2fa37e01d8c693eb9bf9622cca23d69acba9ffffb1bb5a

STATUS	DESCRIPTION
secure	Application is signed with a code signing certificate
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.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.BLUETOOTH	normal	create Bluetooth connections	Allows applications to connect to paired bluetooth devices.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.BLUETOOTH_ADMIN	normal	bluetooth administration	Allows applications to discover and pair bluetooth devices.
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_BACKGROUND_LOCATION	dangerous	access location in background	Allows an app to access location in the background.
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.FOREGROUND_SERVICE	normal		Allows a regular application to use Service.startForeground.
android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS	normal		Permission an application must hold in order to use Settings.ACTION_REQUEST_IGNORE_BATTERY_OPTIMIZATIONS.
android.permission.BLUETOOTH_SCAN	unknown	Unknown permission	Unknown permission from android reference
android.permission.BLUETOOTH_ADVERTISE	unknown	Unknown permission	Unknown permission from android reference
android.permission.BLUETOOTH_CONNECT	unknown	Unknown permission	Unknown permission from android reference

PERMISSION	STATUS	INFO	DESCRIPTION
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.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.

M APKID ANALYSIS

FILE	DETAILS			
	FINDINGS	DETAILS		
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MANUFACTURER check Build.BRAND check		
	Compiler	r8		

FILE	DETAILS			
classes2.dex	FINDINGS		DETAILS	
Classesz.ucx	Compiler		r8	
	FINDINGS	DETAILS		
classes3.dex	Anti-VM Code	Build.FINGERPRINT ch possible Build.SERIAL		
	Compiler	r8 without marker (suspicious)		

△ NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION
1	mfp.dev1-9a18165dc72ee62ffc01f596c6aea343- 0000.tor01.containers.appdomain.cloud	good	Domain config is securely configured to disallow clear text traffic to these domains in scope.

Q MANIFEST ANALYSIS

NO	ISSUE	SEVERITY	DESCRIPTION
1	App has a Network Security Configuration [android:networkSecurityConfig=@xml/network_security_config]	info	The Network Security Configuration feature lets apps customize their network security settings in a safe, declarative configuration file without modifying app code. These settings can be configured for specific domains and for a specific app.
2	Broadcast Receiver (ca.albertahealthservices.contacttracing.widgets.Large4x2Widget) is not Protected. An intent-filter exists.	high	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 (ca.albertahealthservices.contacttracing.widgets.Medium3x2Widget) is not Protected. An intent-filter exists.	high	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.
4	Broadcast Receiver (ca.albertahealthservices.contacttracing.widgets.Medium2x2Widget) is not Protected. An intent-filter exists.	high	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.
5	Broadcast Receiver (ca.albertahealthservices.contacttracing.widgets.SmallStatsWidget) is not Protected. An intent-filter exists.	high	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.

NO	ISSUE	SEVERITY	DESCRIPTION
6	Broadcast Receiver (ca.albertahealthservices.contacttracing.widgets.VaccinesGivenWidget) is not Protected. An intent-filter exists.	high	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.
7	Broadcast Receiver (ca.albertahealthservices.contacttracing.widgets.NewCasesWidget) is not Protected. An intent-filter exists.	high	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.
8	Broadcast Receiver (ca.albertahealthservices.contacttracing.boot.StartOnBootReceiver) is not Protected. An intent-filter exists.	high	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.
9	Broadcast Receiver (ca.albertahealthservices.contacttracing.receivers.UpgradeReceiver) is not Protected. An intent-filter exists.	high	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.
10	Service (com.google.android.gms.auth.api.signin.RevocationBoundService) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.gms.auth.api.signin.permission.REVOCATION_NOTIFICATION [android:exported=true]	high	A Service 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
				com/github/mikephil/charting/renderer/ CombinedChartRenderer.java com/github/mikephil/charting/data/Chart Data.java com/worklight/wlclient/WLRequest.java com/worklight/wlclient/cookie/Serializabl eCookie.java com/github/mikephil/charting/charts/Bar Chart.java com/worklight/wlclient/fips/FipsHttpClie nt.java com/github/mikephil/charting/data/Com binedData.java com/github/mikephil/charting/renderer/ ScatterChartRenderer.java com/github/mikephil/charting/data/PieE ntry.java com/github/mikephil/charting/utils/Utils. java io/heraldprox/herald/sensor/data/Concre teSensorLogger.java com/github/mikephil/charting/listener/B arLineChartTouchListener.java
1	The App logs information. Sensitive information should never be logged.	info	CVSS V2: 7.5 (high) CWE: CWE-532 Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	com/github/mikephil/charting/utils/FileU tils.java com/github/mikephil/charting/charts/Ho rizontalBarChart.java pub/devrel/easypermissions/helper/Base SupportPermissionsHelper.java com/worklight/wlclient/auth/WLAuthoriz ationManagerInternal.java com/worklight/common/WLAnalytics.jav a com/github/mikephil/charting/compone

NO	ISSUE	SEVERITY	STANDARDS	nts/AxisBase.java FILES com/github/mikephil/charting/charts/Co mbinedChart.java
				ca/albertahealthservices/contacttracing/l ogging/CentralLog.java com/github/mikephil/charting/charts/Ch art.java com/worklight/common/Logger.java com/github/mikephil/charting/data/Line DataSet.java pub/devrel/easypermissions/helper/ActivityPermissionHelper.java com/github/mikephil/charting/charts/Pie RadarChartBase.java com/github/mikephil/charting/charts/Bar LineChartBase.java ca/albertahealthservices/contacttracing/P lotActivity.java pub/devrel/easypermissions/EasyPermis sions.java
2	The App uses an insecure Random Number Generator.	warning	CVSS V2: 7.5 (high) CWE: CWE-330 Use of Insufficiently Random Values OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-6	io/heraldprox/herald/sensor/datatype/ra ndom/NonBlockingCSPRNG.java io/heraldprox/herald/sensor/datatype/ra ndom/NonBlockingPRNG.java j\$/util/concurrent/ThreadLocalRandom.ja va io/heraldprox/herald/sensor/datatype/ra ndom/BlockingSecureRandom.java io/heraldprox/herald/sensor/datatype/ra ndom/BlockingSecureRandomNIST.java io/heraldprox/herald/sensor/datatype/ra ndom/BlockingSecureRandomSingleton.j ava

NO	ISSUE	SEVERITY	STANDARDS	FILES
3	SHA-1 is a weak hash known to have hash collisions.	warning	CVSS V2: 5.9 (medium) CWE: CWE-327 Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/worklight/common/security/PRNGFi xes.java com/worklight/wlclient/api/SecurityUtils.j ava com/worklight/wlclient/HttpClientManag er.java com/worklight/utils/SecurityUtils.java io/heraldprox/herald/sensor/datatype/ra ndom/BlockingSecureRandomNIST.java io/heraldprox/herald/sensor/payload/si mple/K.java
4	The App uses the encryption mode CBC with PKCS5/PKCS7 padding. This configuration is vulnerable to padding oracle attacks.	high	CVSS V2: 7.4 (high) CWE: CWE-649 Reliance on Obfuscation or Encryption of Security-Relevant Inputs without Integrity Checking OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-3	com/worklight/wlclient/api/SecurityUtils.j ava com/worklight/utils/AESStringEncryption. java com/worklight/utils/SecurityUtils.java
5	App can read/write to External Storage. Any App can read data written to External Storage.	high	CVSS V2: 5.5 (medium) CWE: CWE-276 Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	com/github/mikephil/charting/utils/FileU tils.java com/github/mikephil/charting/charts/Ch art.java io/heraldprox/herald/sensor/data/TextFil e.java
6	Files may contain hardcoded sensitive information like usernames, passwords, keys etc.	warning	CVSS V2: 7.4 (high) CWE: CWE-312 Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	ca/albertahealthservices/contacttracing/B uildConfig.java com/worklight/common/Logger.java com/worklight/wlclient/auth/AccessToke n.java
7	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	CVSS V2: 0 (info) OWASP MASVS: MSTG-NETWORK-4	com/worklight/wlclient/HttpClientManag er.java

SHARED LIBRARY BINARY ANALYSIS

NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
1	lib/x86/libauthjni.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.	False info The shared object does not have run-time search path or RPATH set.	False 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/armeabi-v7a/libauthjni.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.	False info The shared object does not have run-time search path or RPATH set.	False 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/mips64/libauthjni.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.	No RELRO high This shared object does not have RELRO enabled. The entire GOT (.got and .got.plt both) are writable. Without this compiler flag, buffer overflows on a global variable can overwrite GOT entries. Use the option - z,relro,-z,now to enable full RELRO and only -z,relro to enable partial RELRO.	False info The shared object does not have run-time search path or RPATH set.	False 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/armeabi/libauthjni.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.	False info The shared object does not have run-time search path or RPATH set.	False 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
5	lib/x86_64/libauthjni.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.	False info The shared object does not have run-time search path or RPATH set.	False 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
6	lib/mips/libauthjni.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.	No RELRO high This shared object does not have RELRO enabled. The entire GOT (.got and .got.plt both) are writable. Without this compiler flag, buffer overflows on a global variable can overwrite GOT entries. Use the option - z,relro,-z,now to enable full RELRO and only -z,relro to enable partial RELRO.	False info The shared object does not have run-time search path or RPATH set.	False 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
7	lib/arm64-v8a/libauthjni.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.	No RELRO high This shared object does not have RELRO enabled. The entire GOT (.got and .got.plt both) are writable. Without this compiler flag, buffer overflows on a global variable can overwrite GOT entries. Use the option - z,relro,-z,now to enable full RELRO and only -z,relro to enable partial RELRO.	False info The shared object does not have run-time search path or RPATH set.	False 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	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
1	FCS_RBG_EXT.1.1	Security Functional Requirements	Random Bit Generation Services	The application implement 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 implement asymmetric key generation.
4	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to ['location', 'network connectivity', 'bluetooth'].
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.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
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.
11	FCS_CKM.1.1(3),FCS_CKM.1.2(3)	Selection-Based Security Functional Requirements	Password Conditioning	A password/passphrase shall perform [Password-based Key Derivation Functions] in accordance with a specified cryptographic algorithm
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_COP.1.1(2)	Selection-Based Security Functional Requirements	Cryptographic Operation - Hashing	The application perform cryptographic hashing services in accordance with a specified cryptographic algorithm SHA-1/SHA-256/SHA-384/SHA-512 and message digest sizes 160/256/384/512 bits.
14	FCS_COP.1.1(3)	Selection-Based Security Functional Requirements	Cryptographic Operation - Signing	The application perform cryptographic signature services (generation and verification) in accordance with a specified cryptographic algorithm RSA schemes using cryptographic key sizes of 2048-bit or greater.
15	FCS_HTTPS_EXT.1.2	Selection-Based Security Functional Requirements	HTTPS Protocol	The application implement HTTPS using TLS.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
16	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.
17	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.
18	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

DOMAIN	STATUS	GEOLOCATION
play.google.com	good	IP: 172.217.14.206 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

DOMAIN	STATUS	GEOLOCATION
github.com	good	IP: 140.82.112.3 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
www.alberta.ca	good	IP: 104.22.42.162 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
www.albertahealthservices.ca	good	IP: 198.161.11.29 Country: Canada Region: Alberta City: Edmonton Latitude: 53.546726 Longitude: -113.491302 View: Google Map
alberta.ca	good	IP: 142.229.246.30 Country: Canada Region: Alberta City: Edmonton Latitude: 53.506794 Longitude: -113.523651 View: Google Map



URL	FILE
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/Flowable.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/Single.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/Observable.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/Maybe.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/Completable.java
https://github.com/ReactiveX/RxJava/wiki/Error-Handling	io/reactivex/exceptions/OnErrorNotImplementedException.java
https://github.com/ReactiveX/RxJava/wiki/What's-different-in-2.0#error-handling	io/reactivex/exceptions/UndeliverableException.java
https://www.alberta.ca/ab-trace-together.aspx http://play.google.com/store/apps/details? id=ca.albertahealthservices.contacttracing	ca/albertahealthservices/contacttracing/BuildConfig.java
file:///android_asset/privacypolicy.html	ca/albertahealthservices/contacttracing/onboarding/PrivacyPolicyProvider.jav a
file:///android_asset/changelog.html	ca/albertahealthservices/contacttracing/fragment/WhatsNewFragment.java

URL	FILE
https://www.albertahealthservices.ca/topics/Page17221.aspx https://www.alberta.ca/ab-trace-together-faq.aspx https://alberta.ca/ABTraceTogetherFAQ https://www.alberta.ca/enhanced-public-health-measures.aspx https://www.alberta.ca/ab-trace-together-privacy.aspx https://alberta.ca/ABTraceTogetherPrivacy https://www.alberta.ca/stats/covid-19-alberta-statistics.htm	Android String Resource



EMAIL	FILE
hiahelpdesk@gov.ab	Android String Resource

App Security Score Calculation

Every app is given an ideal score of 100 to begin with.

For every findings with severity high we reduce 15 from the score.

For every findings with severity warning we reduce 10 from the score.

For every findings with severity good we add 5 to the score.

If the calculated score is greater than 100, then the app security score is considered as 100.

And if the calculated score is less than 0, then the app security score is considered as 10.

Risk Calculation

APP SECURITY SCORE	RISK
0 - 15	CRITICAL
16 - 40	HIGH

APP SECURITY SCORE	RISK
41 - 70	MEDIUM
71 - 100	LOW

Report Generated by - MobSF v3.4.5 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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