

### ANDROID STATIC ANALYSIS REPORT



Link2Care (1.2.1)

File Name:	Link2Care_1.2.1_APKPure.xapk
Package Name:	com.dayton.oskroncare
Scan Date:	Nov. 24, 2024, 10:08 p.m.
App Security Score:	46/100 (MEDIUM RISK)
Grade:	
Trackers Detection:	3/432

### **\$\int\_{\text{FINDINGS}}\$** SEVERITY

<b>≟</b> HIGH	<b>▲</b> MEDIUM	<b>i</b> INFO	<b>✓</b> SECURE	<b>Q</b> HOTSPOT
5	22	2	2	11

#### FILE INFORMATION

**File Name:** Link2Care\_1.2.1\_APKPure.xapk

**Size:** 30.53MB

MD5: 2f8c536bcf884c378a8754098b340ece

**SHA1:** e66b8e8125a9008c29c19d9d513583199740d724

**SHA256**: 901888656579429f4aab306afde45f89f8e4dea8cf7a6ef71c7a935c772c403c

## **i** APP INFORMATION

App Name: Link2Care

Package Name: com.dayton.oskroncare

Main Activity: com.dayton.activity.tutorial.SplashActivity

Target SDK: 34 Min SDK: 24 Max SDK:

**Android Version Name:** 1.2.1

**Android Version Code: 72** 

#### **EE** APP COMPONENTS

Activities: 42 Services: 16 Receivers: 3 Providers: 1

Exported Activities: 3
Exported Services: 4
Exported Receivers: 1
Exported Providers: 0

#### **#** CERTIFICATE INFORMATION

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

X.509 Subject: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android

Signature Algorithm: rsassa\_pkcs1v15 Valid From: 2023-08-29 00:17:54+00:00 Valid To: 2053-08-29 00:17:54+00:00

Issuer: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android

Serial Number: 0x6f613b55a17974dcfb5c7765520c531a61545c3e

Hash Algorithm: sha256

md5: bd07f4b8fb212d8193a4beae74b82d9f

sha1: 8049008341a64c0e5d37b10022b87d0de4a9f7e7

sha256: c8ed85cc13344881fbe675d5a0572b870911b7e3f7b6dfef26a890a518e48e4c

sha512: 09 fab 411 c88 b 45 e841 fa 1500 deab df bbb 26164 f20897062901 ef 606 ab 8e5 ba8b 0bd 49947 a 6bef 192465 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 for 600 ab 8e5 ba8b 0bd 49947 a 6bef 192465 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 for 600 ab 8e5 ba8b 0bd 49947 a 6bef 192465 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 for 600 ab 8e5 ba8b 0bd 49947 a 6bef 192465 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 for 600 ab 8e5 ba8b 0bd 49947 a 6bef 192465 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 for 600 ab 8e5 ba8b 0bd 49947 a 6bef 192465 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 for 600 ab 8e5 ba8b 0bd 49947 a 6bef 192465 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 for 600 ab 8e5 ba8b 0bd 49947 a 6bef 192465 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 for 600 ab 8e5 ba8b 0bd 49947 a 6bef 192465 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 for 600 ab 8e5 ba8b 0bd 49947 a 6bef 192465 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e021e3 bcae 670 d5b8 ce2000 ff 3e6 ad 4c20980395910 df c14e0200 ff 3e6 ad 4c2000 ff

PublicKey Algorithm: rsa

Bit Size: 4096

Fingerprint: 7dc443d97427ff50f233c009e2eedece76ee0593171dbeab4471df3408dad0f1

Found 1 unique certificates

### **E** APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.POST_NOTIFICATIONS	dangerous	allows an app to post notifications.	Allows an app to post notifications
android.permission.SYSTEM_ALERT_WINDOW	dangerous	display system-level alerts	Allows an application to show system- alert windows. Malicious applications can take over the entire screen of the phone.
android.permission.VIBRATE	normal	control vibrator	Allows the application to control the vibrator.
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.GET_ACCOUNTS	dangerous	list accounts	Allows access to the list of accounts in the Accounts Service.
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.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.READ_PHONE_STATE	dangerous	read phone state and identity	Allows the application to access the phone features of the device. An application with this permission can determine the phone number and serial number of this phone, whether a call is active, the number that call is connected to and so on.
android.permission.READ_CONTACTS	dangerous	read contact data	Allows an application to read all of the contact (address) data stored on your phone. Malicious applications can use this to send your data to other people.
android.permission.CALL_PHONE	dangerous	directly call phone numbers	Allows the application to call phone numbers without your intervention.  Malicious applications may cause unexpected calls on your phone bill.  Note that this does not allow the application to call emergency numbers.
android.permission.BLUETOOTH_CONNECT	dangerous	necessary for connecting to paired Bluetooth devices.	Required to be able to connect to paired Bluetooth devices.
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.BLUETOOTH_ADMIN	normal	bluetooth administration	Allows applications to discover and pair bluetooth devices.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.BLUETOOTH	normal	create Bluetooth connections	Allows applications to connect to paired bluetooth devices.
android.permission.BLUETOOTH_ADVERTISE	dangerous	required to advertise to nearby Bluetooth devices.	Required to be able to advertise to nearby Bluetooth devices.
BLUETOOTH_CONNECT	dangerous	necessary for connecting to paired Bluetooth devices.	Required to be able to connect to paired Bluetooth devices.
android.permission.BLUETOOTH_SCAN		required for discovering and pairing Bluetooth devices.	Required to be able to discover and pair nearby Bluetooth devices.
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_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.FOREGROUND_SERVICE	normal	enables regular apps to use Service.startForeground.	Allows a regular application to use Service.startForeground.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.FOREGROUND_SERVICE_LOCATION		allows foreground services with location use.	Allows a regular application to use Service.startForeground with the type "location".
android.permission.ACCESS_BACKGROUND_LOCATION	dangerous	access location in background	Allows an app to access location in the background.
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	normal	permission defined by google	A custom permission defined by Google.
com.dayton.oskroncare.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference

## **APKID ANALYSIS**

FILE	DETAILS	
2f8c536bcf884c378a8754098b340ece.apk	FINDINGS	DETAILS
	Anti-VM Code	possible VM check

FILE	DETAILS		
	FINDINGS	DETAILS	
	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.TAGS check	
classes.dex	Compiler	r8 without marker (suspicious)	

FILE	DETAILS		
	FINDINGS	DETAILS	
classes2.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.HARDWARE check possible Build.SERIAL check Build.TAGS check possible VM check	
	Anti Debug Code	Debug.isDebuggerConnected() check	
	Compiler	r8 without marker (suspicious)	
classes3.dex	FINDINGS	DETAILS	
	Compiler	r8 without marker (suspicious)	

## **BROWSABLE ACTIVITIES**

ACTIVITY	INTENT
com.dayton.activity.ChangePasswordActivity	Schemes: @string/host://, Hosts: @string/host_url,

## **△** NETWORK SECURITY

HIGH: 1 | WARNING: 0 | INFO: 0 | SECURE: 0

NO	SCOPE	SEVERITY	DESCRIPTION
1	*	high	Base config is insecurely configured to permit clear text traffic to all domains.

#### **CERTIFICATE ANALYSIS**

HIGH: 0 | WARNING: 0 | INFO: 1

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

## **Q** MANIFEST ANALYSIS

HIGH: 1 | WARNING: 10 | 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.

NO	ISSUE	SEVERITY	DESCRIPTION
2	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.
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.
4	Activity (com.dayton.activity.OTAActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
5	Activity (com.dayton.activity.OtaNotificationActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
6	Activity (com.dayton.activity.ChangePasswordActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
7	Service (com.dayton.ble.notification.ListenerService) is Protected by a permission, but the protection level of the permission should be checked.  Permission: android.permission.BIND_NOTIFICATION_LISTENER_SERVICE [android:exported=true]	warning	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.
8	Service (com.baidu.location.f) is not Protected. [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.

NO	ISSUE	SEVERITY	DESCRIPTION
9	Service (com.dayton.ble.newstuff.MultiBluetoothScannerService) is not Protected. [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
10	Service (com.dayton.ble.ota.OtaService) is not Protected. [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
11	Broadcast Receiver (no.nordicsemi.android.support.v18.scanner.PendingIntentReceiver) is not Protected. [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.
12	High Intent Priority (1000) [android:priority]	warning	By setting an intent priority higher than another intent, the app effectively overrides other requests.

# </> CODE ANALYSIS

HIGH: 3 | WARNING: 10 | INFO: 1 | SECURE: 1 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	STANDARDS	FILES
1	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	com/baidu/location/b/s.java com/baidu/location/c/a.java com/baidu/location/e/a.java com/baidu/location/e/c.java com/baidu/location/e/e.java com/baidu/location/e/f.java com/baidu/location/e/l.java com/baidu/location/e/m.java
				butterknife/ButterKnife.java

NO	ISSUE	SEVERITY	STANDARDS	cn/dreamtobe/percentsmoothhandler/S <b>FiddelS</b> -landler.java
				com/afollestad/materialdialogs/Material
				Dialog.java
				com/afollestad/materialdialogs/internal/
				MDTintHelper.java
				com/baidu/a/j.java
				com/baidu/lbsapi/auth/LBSAuthManage
				r.java
				com/baidu/lbsapi/auth/b.java
				com/baidu/location/BDNotifyListener.ja
				va
				com/baidu/location/LocationClient.java
				com/baidu/location/b/aa.java
				com/baidu/location/b/ar.java
				com/baidu/location/f.java
				com/baidu/location/f/a/a.java
				com/baidu/location/g/a.java
				com/baidu/location/g/b.java
				com/baidu/location/h/k.java
				com/baidu/location/h/l.java
				com/baidu/location/h/m.java
				com/baidu/location/h/p.java
				com/baidu/location/h/q.java
				com/baidu/location/indoor/mapversion
				/IndoorJni.java
				com/baoyz/swipemenulistview/SwipeM
				enuLayout.java
				com/dayton/activity/ActivitiesActivity.jav
				a
				com/dayton/activity/HomeActivity.java
				com/dayton/activity/NavigationActivity.j
				ava
				com/dayton/activity/OTAActivity.java
				com/dayton/activity/ProfileActivity.java
				com/dayton/activity/SOSAlarmContacts
				Activity.java
				com/dayton/activity/VibrationPatternsAc
				tivity.java
				com/dayton/activity/tutorial/ConnectWa
				com day to mactivity national confidential

NO	ISSUE	SEVERITY	STANDARDS	tchSuccessActivity.java  Fdla CS  yton/adapter/NotificationAllApps
				Adapter.java
				com/dayton/adapter/PlaceAutocomplet eAdapter.java
				com/dayton/adapter/WorldClockAdapte
				r.java
				com/dayton/application/ApplicationMod
				el.java
				com/dayton/ble/controller/OtaControlle
				rlmpl.java
				com/dayton/ble/model/VeliGear.java
				com/dayton/ble/model/packet/MultiBlu
				etoothRawPacket.java
				com/dayton/ble/model/request/navigati
				on/UrbanNavigationRequest.java
				com/dayton/ble/model/request/weathe
				r/SetWeatherLocationsRequest.java
				com/dayton/ble/newstuff/MultiBluetoot
				hScanCallback.java
				com/dayton/ble/newstuff/MultiBluetoot
				hScannerService.java
				com/dayton/ble/newstuff/StepsPacketH
				andler.java
				com/dayton/ble/newstuff/SyncService.ja
				Va
				com/dayton/ble/notification/ListenerSer
				vice.java
				com/dayton/cloud/SyncActivityManager.
				java
				com/dayton/database/model/User java
				com/dayton/database/model/User.java com/dayton/location/LocationService.ja
				va
				com/dayton/map/DroneGoogleMap.java
				com/dayton/map/Maneuver.java
				com/dayton/network/RetrofitWeatherSe
				rvice.java
				com/dayton/networkadapter/adapter/M
				edBaiDuLocationApiAdapterManager.jav
				casaisas acocadori, ipir aapter iviariager jav

NO	ISSUE	SEVERITY	STANDARDS	a  File Figure 1  Com/dayton/view/CalendarView.java
2	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	com/dayton/view/CalendarView.java com/dayton/view/CharacterParser.java com/github/mikephil/charting/charts/Ba rChart.java com/github/mikephil/charting/charts/Ba rLineChartBase.java com/github/mikephil/charting/charts/Ch art.java com/github/mikephil/charting/charts/H orizontalBarChart.java com/github/mikephil/charting/charts/Pi eRadarChartBase.java com/github/mikephil/charting/compone nts/AxisBase.java com/github/mikephil/charting/data/Cha rtData.java com/github/mikephil/charting/listener/ BarLineChartTouchListener.java com/github/mikephil/charting/utils/File Utils.java com/github/mikephil/charting/utils/File Utils.java com/github/mikephil/charting/utils/Utils .java com/loopj/android/http/LogHandler.jav a com/miguelcatalan/materialsearchview/ MaterialSearchView.java cz/msebera/android/httpclient/extras/H ttpClientAndroidLog.java cz/msebera/android/httpclient/extras/P RNGFixes.java cz/msebera/android/httpclient/impl/con n/DefaultClientConnection.java io/realm/BaseRealm.java io/realm/PynamicRealm.java io/realm/Realm.java
				io/realm/RealmCache.java io/realm/RealmObject.java io/realm/RealmResults.java

NO	ISSUE	SEVERITY	STANDARDS	io/realm/internal/FinalizerRunnable.java <b>FJ/LaES</b> n/internal/OsRealmConfig.java
				io/realm/internal/RealmCore.java
				io/realm/internal/Util.java
				me/zhanghai/android/materialprogress
				bar/BaseProgressLayerDrawable.java
				me/zhanghai/android/materialprogress
				bar/MaterialProgressBar.java
				net/medcorp/library/BluetoothDataQue
				ue.java
				net/medcorp/library/BluetoothService.ja
				va
				net/medcorp/library/BtDeviceBroadcast
				Receiver.java
				net/medcorp/library/BtScanCallback.jav
				a
				net/medcorp/library/android/notificatio
				nsdk/gatt/NotificationGattServer.java
				net/medcorp/library/ble/util/QueuedMa
				inThreadHandler.java
				net/medcorp/library/network/manager/
				BaiDuLocationApiManager.java
				net/medcorp/library/network/manager/
				FreshdeskApiManager.java
				net/medcorp/library/network/manager/
				MedStandardApiManager.java
				net/medcorp/library/network/mock/Mo
				ckSubscribers.java
				net/medcorp/library/network/response/
				body/med/UserResponse.java
				net/medcorp/library/network/subscribe
				r/MEDNetworkSubscriber.java
				net/medcorp/library/network/test/Med
				NetworkTester.java
				net/medcorp/library/util/AssetsUtil.java
				net/medcorp/library/util/BleDataUtil.jav
				a
				no/nordicsemi/android/dfu/BaseDfulm
				pl.java no/nordicsemi/android/dfu/DfuBaseSer
				no/noralesemi/anarola/ana/brabaseser

NO	ISSUE	SEVERITY	STANDARDS	vice.java  Folia f
				org/greenrobot/eventbus/Logger.java org/joda/time/tz/DateTimeZoneBuilder.j ava org/joda/time/tz/ZoneInfoCompiler.java org/springframework/http/client/suppor t/HttpAccessor.java org/springframework/web/client/HttpM essageConverterExtractor.java org/springframework/web/client/RestTe mplate.java retrofit/Platform.java retrofit/android/AndroidLog.java roboguice/util/temp/Ln.iava
3	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-4	rx/internal/util/IndexedRingBuffer.java com/baidu/a/g, java rx/internal/util/RxRingBuffer.java com/baidu/location/b/o.java rx/plugins/RxJavaHooks.java com/baidu/location/indoor/mapversion/b/a.java com/baidu/location/indoor/mapversion/b/a.java com/loopj/android/http/MySSLSocketFa ctory.java cz/msebera/android/httpclient/conn/ssl/SSLContextBuilder.java net/medcorp/library/network/manager/BaiDuLocationApiManager.java net/medcorp/library/network/manager/FreshdeskApiManager.java net/medcorp/library/network/manager/MedStandardApiManager.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	com/baidu/location/b/ar.java com/baidu/location/c/g.java com/baidu/location/f/b/b.java com/baidu/location/h/s.java com/github/mikephil/charting/charts/Ch art.java com/github/mikephil/charting/utils/File Utils.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
5	Weak Encryption algorithm used	high	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/baidu/a/d.java cz/msebera/android/httpclient/impl/aut h/NTLMEnginelmpl.java
6	The App uses the encryption mode CBC with PKCS5/PKCS7 padding. This configuration is vulnerable to padding oracle attacks.	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/baidu/a/d.java com/baidu/android/bbalbs/common/se curity/a.java com/baidu/lbsapi/auth/a.java
7	MD5 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	com/baidu/a/d.java com/baidu/android/bbalbs/common/se curity/b.java com/baidu/geofence/a/a.java com/baidu/lbsapi/auth/q.java com/baidu/location/h/s.java com/baidu/location/indoor/mapversion /b/a.java com/dayton/utils/Common.java cz/msebera/android/httpclient/impl/aut h/NTLMEnginelmpl.java roboguice/util/temp/Strings.java
8	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	com/baidu/a/d.java com/baidu/lbsapi/auth/d.java com/dayton/utils/Common.java cz/msebera/android/httpclient/impl/aut h/NTLMEngineImpl.java cz/msebera/android/httpclient/impl/clie nt/cache/BasicIdGenerator.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
9	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	com/afollestad/materialdialogs/BuildCo nfig.java com/baidu/a/c.java com/baidu/lbsapi/auth/i.java com/baidu/location/LocationClient.java com/baidu/location/b/o.java com/baidu/location/c/b.java com/baidu/location/h/h.java cz/msebera/android/httpclient/conn/par ams/ConnRouteParams.java
10	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	com/baidu/location/b/e.java com/baidu/location/f/a/d.java com/baidu/location/f/e.java com/baidu/location/indoor/c.java com/loopj/android/http/SimpleMultipar tEntity.java cz/msebera/android/httpclient/entity/mi me/MultipartEntityBuilder.java org/springframework/http/converter/Fo rmHttpMessageConverter.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
11	Files may contain hardcoded sensitive information like usernames, passwords, keys etc.	warning	CWE: CWE-312: Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	com/dayton/database/helper/SOSEmerg encyContactHelper.java com/dayton/utils/CacheConstants.java com/octo/android/robospice/notificatio n/SpiceNotificationService.java com/octo/android/robospice/notificatio n/SpiceServiceListenerNotificationServic e.java com/octo/android/robospice/request/C achedSpiceRequest.java cz/msebera/android/httpclient/impl/clie nt/cache/FailureCacheValue.java io/jsonwebtoken/JwsHeader.java io/reactivex/internal/schedulers/Schedul erPoolFactory.java rx/internal/schedulers/NewThreadWork er.java
12	App creates temp file. Sensitive information should never be written into a temp file.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	com/loopj/android/http/FileAsyncHttpR esponseHandler.java
13	Ensure that user controlled URLs never reaches the Webview. Enabling file access from URLs in WebView can leak sensitive information from the file system.	warning	CWE: CWE-200: Information Exposure OWASP Top 10: M1: Improper Platform Usage OWASP MASVS: MSTG-PLATFORM-7	com/dayton/activity/PDFActivity.java
14	Insecure WebView Implementation. Execution of user controlled code in WebView is a critical Security Hole.	warning	CWE: CWE-749: Exposed Dangerous Method or Function OWASP Top 10: M1: Improper Platform Usage OWASP MASVS: MSTG-PLATFORM-7	com/baidu/location/b/y.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
15	Insecure Implementation of SSL.  Trusting all the certificates or accepting self signed certificates is a critical Security Hole. This application is vulnerable to MITM attacks	high	CWE: CWE-295: Improper Certificate Validation OWASP Top 10: M3: Insecure Communication OWASP MASVS: MSTG-NETWORK-3	com/loopj/android/http/MySSLSocketFa ctory.java cz/msebera/android/httpclient/conn/ssl /SSLConnectionSocketFactory.java cz/msebera/android/httpclient/conn/ssl /SSLSocketFactory.java

## ■ NIAP ANALYSIS v1.3

## **BEHAVIOUR ANALYSIS**

RULE ID	BEHAVIOUR	LABEL	FILES
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RULE ID	BEHAVIOUR	LABEL	FILES
00022	Open a file from given absolute path of the file	file	com/baidu/location/f/b/b,java com/baidu/location/location/mapversion/b/a,java com/baidu/location/indoor/mapversion/b/a,java com/baidu/location/indoor/mapversion/b/c,java com/getkeepsafe/relinker/ReLinkerInstance.java com/github/mikephil/charting/charts/Chart.java com/octo/android/robospice/persistence/binary/InFileBitmapObjectPersister.java com/octo/android/robospice/persistence/binary/InFileInputStreamObjectPersister .java com/octo/android/robospice/persistence/file/InFileObjectPersister.java com/octo/android/robospice/persistence/file/InFileObjectPersisterFactory.java com/octo/android/robospice/persistence/retrofit/RetrofitObjectPersister.java com/octo/android/robospice/persistence/springandroid/SpringAndroidObjectPers ister.java com/octo/android/robospice/persistence/springandroid/json/jackson2/Jackson2O bjectPersister.java com/octo/android/robospice/persistence/string/InFileStringObjectPersister.java com/octo/android/robospice/request/simple/BigBinaryRequest.java com/octo/android/robospice/request/simple/BigBinaryRequest.java io/realm/RealmConfiguration.java io/realm/internal/OsRaelmConfig.java io/realm/internal/OsSharedRealm.java io/realm/internal/OsSharedRealm.java io/realm/internal/Util.java org/codehaus/jackson/map/ser/std/StdJdkSerializers.java org/springframework/core/io/FileSystemResource.java retrofit/mime/TypedFile.java

RULE ID	BEHAVIOUR	LABEL	FILES
00013	Read file and put it into a stream	file	com/baidu/lbsapi/auth/LBSAuthManager.java com/baidu/location/b/ar.java com/baidu/location/b/o.java com/baidu/location/indoor/mapversion/b/a.java com/baidu/location/indoor/mapversion/b/a.java com/getkeepsafe/relinker/elf/ElfParser.java com/loopj/android/http/JsonStreamerEntity.java com/loopj/android/http/SimpleMultipartEntity.java com/loopj/android/robospice/persistence/binary/InFileBigInputStreamObjectPersister.java com/octo/android/robospice/persistence/binary/InFileBitmapObjectPersister.java com/octo/android/robospice/persistence/binary/InFileInputStreamObjectPersister .java com/octo/android/robospice/persistence/retrofit/RetrofitObjectPersister.java com/octo/android/robospice/persistence/retrofit/RetrofitObjectPersister.java com/octo/android/robospice/request/simple/BigBinaryRequest.java cz/msebera/android/httpclient/entity/FileEntity.java cz/msebera/android/httpclient/entity/FileEntity.java cz/msebera/android/httpclient/extras/PRNGFixes.java cz/msebera/android/httpclient/impl/client/cache/FileResource.java no/nordicsemi/android/dfu/DfuBaseService.java org/codehaus/jackson/JsonFactory.java org/joda/time/tz/ZoneInfoCompiler.java org/joda/time/tz/ZoneInfoCompiler.java org/springframework/core/io/FileSystemResource.java org/springframework/util/FileCopyUtils.java org/springframework/util/Support/Base64.java retrofit/mime/TypedFile.java

RULE ID	BEHAVIOUR	LABEL	FILES
00009	Put data in cursor to JSON object	file	com/baidu/location/b/s.java com/baidu/location/c/a.java com/baidu/location/e/a.java com/baidu/location/e/c.java com/baidu/location/e/l.java com/baidu/location/e/m.java com/dayton/utils/CalendarUtils.java
00016	Get location info of the device and put it to JSON object	location collection	com/baidu/location/b/ao.java com/baidu/location/b/c.java com/baidu/location/b/k.java com/baidu/location/b/o.java com/baidu/location/b/v.java com/baidu/location/e/a.java com/baidu/location/indoor/n.java
00096	Connect to a URL and set request method	command network	com/baidu/a/g.java org/springframework/core/io/AbstractFileResolvingResource.java org/springframework/http/client/SimpleClientHttpRequestFactory.java retrofit/client/UrlConnectionClient.java
00089	Connect to a URL and receive input stream from the server	command network	com/baidu/a/g.java com/octo/android/robospice/request/simple/BinaryRequest.java com/octo/android/robospice/request/simple/BitmapRequest.java org/springframework/core/io/UrlResource.java retrofit/client/UrlConnectionClient.java
00109	Connect to a URL and get the response code	network command	com/baidu/a/g.java org/springframework/core/io/AbstractFileResolvingResource.java retrofit/client/UrlConnectionClient.java

RULE ID	BEHAVIOUR	LABEL	FILES
00094	Connect to a URL and read data from it command network		com/baidu/a/g.java com/baidu/lbsapi/auth/i.java com/baidu/location/h/i.java com/baidu/location/h/k.java com/baidu/location/h/l.java com/baidu/location/h/m.java com/baidu/location/h/p.java com/baidu/location/h/q.java com/baidu/location/indoor/mapversion/b/a.java com/octo/android/robospice/request/simple/BinaryRequest.java com/octo/android/robospice/request/simple/BitmapRequest.java
00108	Read the input stream from given URL network comm		com/baidu/a/g.java com/octo/android/robospice/request/simple/BinaryRequest.java com/octo/android/robospice/request/simple/BitmapRequest.java
00162	Create InetSocketAddress object and connecting to it  socket		com/baidu/a/c.java cz/msebera/android/httpclient/conn/MultihomePlainSocketFactory.java cz/msebera/android/httpclient/conn/scheme/PlainSocketFactory.java cz/msebera/android/httpclient/conn/socket/PlainConnectionSocketFactory.java cz/msebera/android/httpclient/conn/ssl/SSLConnectionSocketFactory.java cz/msebera/android/httpclient/conn/ssl/SSLSocketFactory.java cz/msebera/android/httpclient/impl/pool/BasicConnFactory.java
00163	Create new Socket and connecting to it	socket	com/baidu/a/c.java cz/msebera/android/httpclient/conn/MultihomePlainSocketFactory.java cz/msebera/android/httpclient/conn/scheme/PlainSocketFactory.java cz/msebera/android/httpclient/conn/socket/PlainConnectionSocketFactory.java cz/msebera/android/httpclient/conn/ssl/SSLConnectionSocketFactory.java cz/msebera/android/httpclient/conn/ssl/SSLSocketFactory.java cz/msebera/android/httpclient/impl/pool/BasicConnFactory.java

RULE ID	BEHAVIOUR LABEL		FILES
00014	Read file into a stream and put it into a JSON object	file	com/baidu/lbsapi/auth/LBSAuthManager.java com/baidu/location/b/o.java com/loopj/android/http/JsonStreamerEntity.java
00004	Get filename and put it to JSON object	file collection	com/baidu/location/b/o.java com/baidu/location/e/c.java com/loopj/android/http/JsonStreamerEntity.java
00077	Read sensitive data(SMS, CALLLOG, etc)	collection sms calllog calendar	com/baidu/location/e/j.java
00036	Get resource file from res/raw directory	reflection	com/baidu/location/e/i.java
00042	Query WiFi BSSID and scan results	collection wifi	com/baidu/location/b/k.java com/baidu/location/f/a/d.java
00130	Get the current WIFI information	wifi collection	com/baidu/location/b/k.java com/baidu/location/f/a/d.java
00018	Get JSON object prepared and fill in location info	location collection	com/baidu/location/b/k.java
00076	Get the current WiFi information and put it into JSON  collection wifi		com/baidu/location/b/k.java
00056	Modify voice volume control		com/dayton/utils/SoundPlayer.java
00012	Read data and put it into a buffer stream		org/springframework/util/FileCopyUtils.java org/springframework/util/support/Base64.java

RULE ID	BEHAVIOUR	LABEL	FILES
00123	Save the response to JSON after connecting to the remote server	network command	com/baidu/a/g.java
00030	Connect to the remote server through the given URL	network	com/baidu/a/g.java
00035	Query the list of the installed packages	reflection	net/medcorp/library/android/notificationsdk/config/ConfigHelper.java
00091	Retrieve data from broadcast	collection	com/baidu/location/g/a.java com/dayton/ble/notification/ListenerService.java
00063	Implicit intent(view a web page, make a phone call, etc.)		no/nordicsemi/android/dfu/DfuBaseService.java
00125	Check if the given file path exist file		com/baidu/location/b/s.java
00191	Get messages in the SMS inbox sms		com/dayton/utils/CalendarUtils.java
00047	Query the local IP address network collection		cz/msebera/android/httpclient/impl/SocketHttpClientConnection.java cz/msebera/android/httpclient/impl/SocketHttpServerConnection.java



TITLE	SEVERITY	DESCRIPTION
App talks to a Firebase database	info	The app talks to Firebase database at https://oskron-b3dc9.firebaseio.com
Firebase Remote Config disabled	secure	Firebase Remote Config is disabled for https://firebaseremoteconfig.googleapis.com/v1/projects/907575889312/namespaces/firebase:fetch? key=AlzaSyAYKVidZECs8LOAqLd59frcKN9cuFvxVVg. This is indicated by the response: {'state': 'NO_TEMPLATE'}

#### **\*: ::** ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	13/25	android.permission.SYSTEM_ALERT_WINDOW, android.permission.VIBRATE, android.permission.WAKE_LOCK, android.permission.WRITE_EXTERNAL_STORAGE, android.permission.INTERNET, android.permission.GET_ACCOUNTS, android.permission.ACCESS_NETWORK_STATE, android.permission.ACCESS_WIFI_STATE, android.permission.READ_PHONE_STATE, android.permission.READ_CONTACTS, android.permission.RECEIVE_BOOT_COMPLETED, android.permission.ACCESS_COARSE_LOCATION, android.permission.ACCESS_FINE_LOCATION
Other Common Permissions	6/44	android.permission.CALL_PHONE, android.permission.BLUETOOTH_ADMIN, android.permission.BLUETOOTH, android.permission.FOREGROUND_SERVICE, android.permission.ACCESS_BACKGROUND_LOCATION, com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE

#### **Malware Permissions:**

Top permissions that are widely abused by known malware.

#### **Other Common Permissions:**

Permissions that are commonly abused by known malware.

# **!** OFAC SANCTIONED COUNTRIES

This app may communicate with the following OFAC sanctioned list of countries.

DOMAIN	COUNTRY/REGION
daup.map.baidu.com	IP: 111.63.96.116 Country: China Region: Hebei City: Shijiazhuang
client.map.baidu.com	IP: 180.76.11.166 Country: China Region: Beijing City: Beijing
itsdata.map.baidu.com	IP: 112.34.111.228 Country: China Region: Beijing City: Beijing
ofloc.map.baidu.com	IP: 111.63.96.122 Country: China Region: Hebei City: Shijiazhuang
api.map.baidu.com	IP: 180.76.11.208 Country: China Region: Beijing City: Beijing
parking.baidu.com	IP: 112.34.113.126 Country: China Region: Beijing City: Beijing

DOMAIN	COUNTRY/REGION
aispace.baidu.com	IP: 112.34.113.126 Country: China Region: Beijing City: Beijing
a.kendy.com.hk	IP: 115.160.181.130 Country: Hong Kong Region: Hong Kong City: Hong Kong
blg.map.baidu.com	IP: 180.76.11.136 Country: China Region: Beijing City: Beijing
loc.map.baidu.com	IP: 180.76.11.229 Country: China Region: Beijing City: Beijing

## **Q DOMAIN MALWARE CHECK**

DOMAIN STATUS GEOLOCATION
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DOMAIN	STATUS	GEOLOCATION
daup.map.baidu.com	ok	IP: 111.63.96.116 Country: China Region: Hebei City: Shijiazhuang Latitude: 38.041389 Longitude: 114.478607 View: Google Map
client.map.baidu.com	ok	IP: 180.76.11.166 Country: China Region: Beijing City: Beijing Latitude: 39.907501 Longitude: 116.397232 View: Google Map
itsdata.map.baidu.com	ok	IP: 112.34.111.228 Country: China Region: Beijing City: Beijing Latitude: 39.907501 Longitude: 116.397232 View: Google Map
example.com	ok	No Geolocation information available.
datatracker.ietf.org	ok	IP: 104.16.45.99 Country: United States of America Region: Texas City: Dallas Latitude: 32.783058 Longitude: -96.806671 View: Google Map

DOMAIN	STATUS	GEOLOCATION
ofloc.map.baidu.com	ok	IP: 111.63.96.122 Country: China Region: Hebei City: Shijiazhuang Latitude: 38.041389 Longitude: 114.478607 View: Google Map
realm.io	ok	IP: 3.162.3.37  Country: United States of America Region: Washington City: Seattle Latitude: 47.627499 Longitude: -122.346199 View: Google Map
tools.ietf.org	ok	IP: 104.16.45.99 Country: United States of America Region: Texas City: Dallas Latitude: 32.783058 Longitude: -96.806671 View: Google Map
github.com	ok	IP: 140.82.113.4 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map

DOMAIN	STATUS	GEOLOCATION
api.map.baidu.com	ok	IP: 180.76.11.208  Country: China Region: Beijing City: Beijing Latitude: 39.907501 Longitude: 116.397232 View: Google Map
parking.baidu.com	ok	IP: 112.34.113.126 Country: China Region: Beijing City: Beijing Latitude: 39.907501 Longitude: 116.397232 View: Google Map
maps.googleapis.com	ok	IP: 142.250.69.42 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
weatherkit.apple.com	ok	IP: 23.58.127.113  Country: Canada Region: British Columbia City: Vancouver Latitude: 49.249660 Longitude: -123.119339 View: Google Map

DOMAIN	STATUS	GEOLOCATION
149.210.161.10	ok	IP: 149.210.161.10 Country: Netherlands Region: Noord-Holland City: Amsterdam Latitude: 52.374031 Longitude: 4.889690 View: Google Map
issuetracker.google.com	ok	IP: 142.250.69.110 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
oskron-b3dc9.firebaseio.com	ok	IP: 34.120.160.131 Country: United States of America Region: Missouri City: Kansas City Latitude: 39.099731 Longitude: -94.578568 View: Google Map
aispace.baidu.com	ok	IP: 112.34.113.126 Country: China Region: Beijing City: Beijing Latitude: 39.907501 Longitude: 116.397232 View: Google Map

DOMAIN	STATUS	GEOLOCATION
a.kendy.com.hk	ok	IP: 115.160.181.130 Country: Hong Kong Region: Hong Kong City: Hong Kong Latitude: 22.285521 Longitude: 114.157692 View: Google Map
oskron.dayton.med-corp.net	ok	IP: 37.97.205.134  Country: Netherlands Region: Noord-Holland City: Amsterdam Latitude: 52.374031 Longitude: 4.889690 View: Google Map
blg.map.baidu.com	ok	IP: 180.76.11.136 Country: China Region: Beijing City: Beijing Latitude: 39.907501 Longitude: 116.397232 View: Google Map
loc.map.baidu.com	ok	IP: 180.76.11.229 Country: China Region: Beijing City: Beijing Latitude: 39.907501 Longitude: 116.397232 View: Google Map

DOMAIN	STATUS	GEOLOCATION
dev.oskron.dayton.med-corp.net	ok	IP: 149.210.161.10 Country: Netherlands Region: Noord-Holland City: Amsterdam Latitude: 52.374031 Longitude: 4.889690 View: Google Map

### **EMAILS**

EMAIL	FILE
karl@med-corp.net	net/medcorp/library/network/test/MedNetworkTester.java

## **A** TRACKERS

TRACKER	CATEGORIES	URL
Baidu Location		https://reports.exodus-privacy.eu.org/trackers/97
Google CrashLytics	Crash reporting	https://reports.exodus-privacy.eu.org/trackers/27
Google Firebase Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/49



# **POSSIBLE SECRETS** "LBSAPIAPI\_KEY": "8XbDYKnhdtJ5TxtnxklXkoqhYgcoCUtQ" "faq\_category\_key": "faq\_category\_raw\_item" "faq\_item\_name\_key": "faq\_item\_name" "faq\_key": "faq" "firebase\_database\_url": "https://oskron-b3dc9.firebaseio.com" "google\_api\_key": "AlzaSyAYKVidZECs8LOAqLd59frcKN9cuFvxVVg" "google\_crash\_reporting\_api\_key": "AlzaSyAYKVidZECs8LOAqLd59frcKN9cuFvxVVg" "google\_geo\_key": "AlzaSyC7UUiaeLVZ9VGZo3Ke8voSvd2r\_yir66w" "hot\_key\_enable" : "Enable" "register\_table\_password" : "Password" "token": "ZQpFYPBMqFbUQq8E99FztS2x6yQ2v1Ei" "weather\_api\_key": "29fa9213f8b40d5a75c820af96fc8d43" 030024266E4EB5106D0A964D92C4860E2671DB9B6CC5

POSSIBLE SECRETS
BDB6F4FE3E8B1D9E0DA8C0D46F4C318CEFE4AFE3B6B8551F
5F49EB26781C0EC6B8909156D98ED435E45FD59918
5363ad4cc05c30e0a5261c028812645a122e22ea20816678df02967c1b23bd72
99754106633f94d350db34d548d6091a
1C97BEFC54BD7A8B65ACF89F81D4D4ADC565FA45
CFA0478A54717B08CE64805B76E5B14249A77A4838469DF7F7DC987EFCCFB11D
6A941977BA9F6A435199ACFC51067ED587F519C5ECB541B8E44111DE1D40
31a92ee2029fd10d901b113e990710f0d21ac6b6
0713612DCDDCB40AAB946BDA29CA91F73AF958AFD9
90066455B5CFC38F9CAA4A48B4281F292C260FEEF01FD61037E56258A7795A1C7AD46076982CE6BB956936C6AB4DCFE05E6784586940CA544B9B2140E1EB523F 009D20A7E7880E4E5BFA690F1B9004A27811CD9904AF70420EEFD6EA11EF7DA129F58835FF56B89FAA637BC9AC2EFAAB903402229F491D8D3485261CD068699 B6BA58A1DDBBEF6DB51E8FE34E8A78E542D7BA351C21EA8D8F1D29F5D5D15939487E27F4416B0CA632C59EFD1B1EB66511A5A0FBF615B766C5862D0BD8A3FE 7A0E0DA0FB2FE1FCB19E8F9996A8EA0FCCDE538175238FC8B0EE6F29AF7F642773EBE8CD5402415A01451A840476B2FCEB0E388D30D4B376C37FE401C2A2C2F9 41DAD179C540C1C8CE030D460C4D983BE9AB0B20F69144C1AE13F9383EA1C08504FB0BF321503EFE43488310DD8DC77EC5B8349B8BFE97C2C560EA878DE87C1 1E3D597F1FEA742D73EEC7F37BE43949EF1A0D15C3F3E3FC0A8335617055AC91328EC22B50FC15B941D3D1624CD88BC25F3E941FDDC6200689581BFEC416B4B 2CB73
10E723AB14D696E6768756151756FEBF8FCB49A9
D7C134AA264366862A18302575D1D787B09F075797DA89F57EC8C0FC
023809B2B7CC1B28CC5A87926AAD83FD28789E81E2C9E3BF10

### **POSSIBLE SECRETS** 00BDDB97E555A50A908E43B01C798EA5DAA6788F1EA2794EFCF57166B8C14039601E55827340BE 64210519E59C80E70FA7E9AB72243049FEB8DEECC146B9B1 7A556B6DAE535B7B51ED2C4D7DAA7A0B5C55F380 04026EB7A859923FBC82189631F8103FE4AC9CA2970012D5D46024804801841CA44370958493B205E647DA304DB4CEB08CBBD1BA39494776FB988B47174DCA 88C7E2945283A01C89720349DC807F4FBF374F44FADF3BCA95314DD58CFC9F307A54FFC61FFC006D8A2C9D4979C0AC44AFA74FBFBBB9F772AFDCB620B01A7BA 7AF1B320430C8591984F601CD4C143EF1C7A3 027d29778100c65a1da1783716588dce2b8b4aee8e228f1896 0400C6858E06B70404E9CD9E3ECB662395B4429C648139053FB521F828AF606B4D3DBAA14B5E77EFE75928FE1DC127A2FFA8DE3348B3C1856A429BF97E7E31C2 E5BD66011839296A789A3BC0045C8A5FB42C7D1BD998F54449579B446817AFBD17273E662C97EE72995EF42640C550B9013FAD0761353C7086A272C24088BE9 4769FD16650 0091A091F03B5FBA4AB2CCF49C4FDD220FB028712D42BF752B2C40094DBACDB586FB20 0620048D28BCBD03B6249C99182B7C8CD19700C362C46A01 10686D41FF744D4449FCCF6D8EEA03102E6812C93A9D60B978B702CF156D814EF 01AF286BCA1AF286BCA1AF286BCA1AF286BCA1AF286BC9FB8F6B85C556892C20A7EB964FE7719E74F490758D3B 04015D4860D088DDB3496B0C6064756260441CDE4AF1771D4DB01FFE5B34E59703DC255A868A1180515603AEAB60794E54BB7996A70061B1CFAB6BE5F32BBF A78324ED106A7636B9C5A7BD198D0158AA4F5488D08F38514F1FDF4B4F40D2181B3681C364BA0273C706 340E7BE2A280EB74E2BE61BADA745D97E8F7C300

D2C0FB15760860DEF1EEF4D696E6768756151754

POSSIBLE SECRETS
0443BD7E9AFB53D8B85289BCC48EE5BFE6F20137D10A087EB6E7871E2A10A599C710AF8D0D39E2061114FDD05545EC1CC8AB4093247F77275E0743FFED11718 2EAA9C77877AAAC6AC7D35245D1692E8EE1
c97445f45cdef9f0d3e05e1e585fc297235b82b5be8ff3efca67c59852018192
E87579C11079F43DD824993C2CEE5ED3
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### > PLAYSTORE INFORMATION

Title: Link2Care

Score: None Installs: 50+ Price: 0 Android Version Support: Category: Health & Fitness Play Store URL: com.dayton.oskroncare

Developer Details: Dayton Industrial Company Limited, Dayton+Industrial+Company+Limited, None, http://www.dayton.com.hk, tonychung@dayton.com.hk,

Release Date: Aug 29, 2023 Privacy Policy: Privacy link

Description:

Link2Care Smart Watch App

### **∷** SCAN LOGS

Timestamp	Event	Error
2024-11-24 22:08:19	Generating Hashes	ОК
2024-11-24 22:08:20	Extracting APK	ОК
2024-11-24 22:08:20	Unzipping	ОК
2024-11-24 22:08:23	Getting Hardcoded Certificates/Keystores	ОК
2024-11-24 22:08:23	Parsing APK with androguard	ОК

2024-11-24 22:08:40	Parsing AndroidManifest.xml	ОК
2024-11-24 22:08:40	Extracting Manifest Data	ОК
2024-11-24 22:08:40	Manifest Analysis Started	ОК
2024-11-24 22:08:40	Reading Network Security config from network_security_config.xml	ОК
2024-11-24 22:08:40	Parsing Network Security config	ОК
2024-11-24 22:08:41	Performing Static Analysis on: Link2Care (com.dayton.oskroncare)	ОК
2024-11-24 22:08:41	Fetching Details from Play Store: com.dayton.oskroncare	OK
2024-11-24 22:08:41	Checking for Malware Permissions	ОК
2024-11-24 22:08:41	Fetching icon path	ОК
2024-11-24 22:08:41	Library Binary Analysis Started	ОК
2024-11-24 22:08:41	Reading Code Signing Certificate	OK

2024-11-24 22:08:43	Running APKiD 2.1.5	ОК
2024-11-24 22:08:51	Updating Trackers Database	ОК
2024-11-24 22:08:51	Detecting Trackers	ОК
2024-11-24 22:09:00	Decompiling APK to Java with JADX	ОК
2024-11-24 22:12:16	Converting DEX to Smali	ОК
2024-11-24 22:12:16	Code Analysis Started on - java_source	ОК
2024-11-24 22:13:15	Android SBOM Analysis Completed	ОК
2024-11-24 22:13:38	Android SAST Completed	ОК
2024-11-24 22:13:38	Android API Analysis Started	ОК
2024-11-24 22:14:08	Android API Analysis Completed	ОК
2024-11-24 22:14:09	Android Permission Mapping Started	ОК

2024-11-24 22:15:24	Android Permission Mapping Completed	ОК
2024-11-24 22:15:31	Android Behaviour Analysis Started	ОК
2024-11-24 22:15:47	Android Behaviour Analysis Completed	ОК
2024-11-24 22:15:47	Extracting Emails and URLs from Source Code	ОК
2024-11-24 22:15:56	Email and URL Extraction Completed	ОК
2024-11-24 22:15:56	Extracting String data from APK	ОК
2024-11-24 22:15:56	Extracting String data from Code	ОК
2024-11-24 22:15:56	Extracting String values and entropies from Code	ОК
2024-11-24 22:17:49	Performing Malware check on extracted domains	ОК
2024-11-24 22:17:54	Saving to Database	ОК
2024-11-24 22:17:58	Unzipping	ОК

### Report Generated by - MobSF v4.2.5

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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