MOBSF

ANDROID STATIC ANALYSIS REPORT

Payoneer (7.8.0)

File Name:	Payoneer.apk
Package Name:	com.payoneer.android
Scan Date:	Nov. 14, 2024, 8:32 p.m.
App Security Score:	52/100 (MEDIUM RISK)
Grade:	B
Trackers Detection:	7/432

FINDINGS SEVERITY

HIGH	MEDIUM	INFO	SECURE	HOTSPOT
4	25	4	4	4

FILE INFORMATION

File Name: Payoneer.apk
Size: 49.3MB
MD5: 016d8ef89a4fb4c7e8012881101fe251
SHA1: bd61d30b614c0445dd6aa549bc44af3bd8ce7c59
SHA256: dff57a1a10bbfafa87bd00af9c5b41bc06630ea4c16a2b0d6a4b85e5ad357568

APP INFORMATION

App Name: Payoneer
Package Name: com.payoneer.android
Main Activity: com.payoneer.SplashActivity
Target SDK: 34
Min SDK: 24
Max SDK:
Android Version Name: 7.8.0

Android Version Code: 10011077

APP COMPONENTS

Activities: 18
Services: 17
Receivers: 21
Providers: 11
Exported Activities: 3
Exported Services: 3
Exported Receivers: 8
Exported Providers: 0

CERTIFICATE INFORMATION

Binary is signed
v1 signature: False
v2 signature: True
v3 signature: True
v4 signature: False
X.509 Subject: OU=Payoneer
Signature Algorithm: rsassa_pkcs1v15
Valid From: 2013-10-24 08:26:34+00:00
Valid To: 2038-10-18 08:26:34+00:00
Issuer: OU=Payoneer
Serial Number: 0x13b7abfc
Hash Algorithm: sha256
md5: 29a56a7a75c70524c996b9efa38f6bc9
sha1: 89a6b0c047192f864251aa3d3047f7223971ed23
sha256: 8d607e96c1e38c9f5150cedf27401e5fd636a8340845b2c04204c158892be58f
sha512: 4344d26f27846f1d05b8a2b6bcba97ee08c79a44ed2208a4d379573d48ebba8c30da385cf47324505ff3656b8aba450107aaf77fbb6bd8b1c6ecb06600742c31
PublicKey Algorithm: rsa
Bit Size: 2048
Fingerprint: 305e396de90e95b35787a7f2fe7e31fd077f00efd5dd489085ed115873134d6c
Found 1 unique certificates

APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
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.VIBRATE	normal	control vibrator	Allows the application to control the vibrator.
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.CAMERA	dangerous	take pictures and videos	Allows application to take pictures and videos with the camera. This allows the application to collect images that the camera is seeing at any time.
android.permission.READ_EXTERNAL_STORAGE	dangerous	read external storage contents	Allows an application to read from external storage.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.USE_BIOMETRIC	normal	allows use of device-supported biometric modalities.	Allows an app to use device supported biometric modalities.
android.permission.POST_NOTIFICATIONS	dangerous	allows an app to post notifications.	Allows an app to post notifications
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.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.USE_FINGERPRINT	normal	allow use of fingerprint	This constant was deprecated in API level 28. Applications should request USE_BIOMETRIC instead.
android.permission.DOWNLOAD_WITHOUT_NOTIFICATION	unknown	Unknown permission	Unknown permission from android reference
com.google.android.c2dm.permission.RECEIVE	normal	recieve push notifications	Allows an application to receive push notifications from cloud.
com.google.android.gms.permission.AD_ID	normal	application shows advertisements	This app uses a Google advertising ID and can possibly serve advertisements.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.ACCESS_ADSERVICES_ATTRIBUTION	normal	allow applications to access advertising service attribution	This enables the app to retrieve information related to advertising attribution, which can be used for targeted advertising purposes. App can gather data about how users interact with ads, such as clicks or impressions, to measure the effectiveness of advertising campaigns.
android.permission.ACCESS_ADSERVICES_AD_ID	normal	allow app to access the device's advertising ID.	This ID is a unique, user-resettable identifier provided by Google's advertising services, allowing apps to track user behavior for advertising purposes while maintaining user privacy.
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	normal	permission defined by google	A custom permission defined by Google.
android.permission.FOREGROUND_SERVICE	normal	enables regular apps to use Service.startForeground.	Allows a regular application to use Service.startForeground.
com.payoneer.android.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference
com.sec.android.provider.badge.permission.READ	normal	show notification count on app	Show notification count or badge on application launch icon for samsung phones.
com.sec.android.provider.badge.permission.WRITE	normal	show notification count on app	Show notification count or badge on application launch icon for samsung phones.

PERMISSION	STATUS	INFO	DESCRIPTION
com.htc.launcher.permission.READ_SETTINGS	normal	show notification count on app	Show notification count or badge on application launch icon for htc phones.
com.htc.launcher.permission.UPDATE_SHORTCUT	normal	show notification count on app	Show notification count or badge on application launch icon for htc phones.
com.sonyericsson.home.permission.BROADCAST_BADGE	normal	show notification count on app	Show notification count or badge on application launch icon for sony phones.
com.sonymobile.home.permission.PROVIDER_INSERT_BADGE	normal	show notification count on app	Show notification count or badge on application launch icon for sony phones.
com.anddoes.launcher.permission.UPDATE_COUNT	normal	show notification count on app	Show notification count or badge on application launch icon for apex.
com.majeur.launcher.permission.UPDATE_BADGE	normal	show notification count on app	Show notification count or badge on application launch icon for solid.
com.huawei.android.launcher.permission.CHANGE_BADGE	normal	show notification count on app	Show notification count or badge on application launch icon for huawei phones.
com.huawei.android.launcher.permission.READ_SETTINGS	normal	show notification count on app	Show notification count or badge on application launch icon for huawei phones.
com.huawei.android.launcher.permission.WRITE_SETTINGS	normal	show notification count on app	Show notification count or badge on application launch icon for huawei phones.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.READ_APP_BADGE	normal	show app notification	Allows an application to show app icon badges.
com.oppo.launcher.permission.READ_SETTINGS	normal	show notification count on app	Show notification count or badge on application launch icon for oppo phones.
com.oppo.launcher.permission.WRITE_SETTINGS	normal	show notification count on app	Show notification count or badge on application launch icon for oppo phones.
me.everything.badger.permission.BADGE_COUNT_READ	unknown	Unknown permission	Unknown permission from android reference
me.everything.badger.permission.BADGE_COUNT_WRITE	unknown	Unknown permission	Unknown permission from android reference
android.permission.USE_FULL_SCREEN_INTENT	normal	required for full screen intents in notifications.	Required for apps targeting Build.VERSION_CODES.Q that want to use notification full screen intents.
android.permission.SCHEDULE_EXACT_ALARM	normal	permits exact alarm scheduling for background work.	Allows an app to use exact alarm scheduling APIs to perform timing sensitive background work.
android.permission.BROADCAST_CLOSE_SYSTEM_DIALOGS	unknown	Unknown permission	Unknown permission from android reference
android.permission.ACCESS_NOTIFICATION_POLICY	normal	marker permission for accessing notification policy.	Marker permission for applications that wish to access notification policy.

APKID ANALYSIS

<table>
<tr><th>FILE</th><th>DETAILS</th></tr>
<tr><td>016d8ef89a4fb4c7e8012881101fe251.apk</td><td>
<table>
<tr><th>FINDINGS</th><th>DETAILS</th></tr>
<tr><td>Anti-VM Code</td><td>possible VM check</td></tr>
</table>
</td></tr>
<tr><td>classes.dex</td><td>
<table>
<tr><th>FINDINGS</th><th>DETAILS</th></tr>
<tr><td>Anti-VM Code</td><td>Build.FINGERPRINT check
Build.MODEL check
Build.MANUFACTURER check
possible Build.SERIAL check
network operator name check</td></tr>
<tr><td>Compiler</td><td>dexlib 2.x</td></tr>
</table>
</td></tr>
<tr><td>classes2.dex</td><td>
<table>
<tr><th>FINDINGS</th><th>DETAILS</th></tr>
<tr><td>Anti-VM Code</td><td>Build.FINGERPRINT check
Build.MANUFACTURER check
possible Build.SERIAL check
Build.TAGS check</td></tr>
<tr><td>Anti Debug Code</td><td>Debug.isDebuggerConnected() check</td></tr>
<tr><td>Compiler</td><td>dexlib 2.x</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>FILE</th><th>DETAILS</th></tr>
<tr><td>classes3.dex</td><td>
<table>
<tr><th>FINDINGS</th><th>DETAILS</th></tr>
<tr><td>Anti-VM Code</td><td>Build.MANUFACTURER check</td></tr>
<tr><td>Compiler</td><td>dexlib 2.x</td></tr>
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</td></tr>
<tr><td>classes4.dex</td><td>
<table>
<tr><th>FINDINGS</th><th>DETAILS</th></tr>
<tr><td>Anti-VM Code</td><td>Build.FINGERPRINT check
Build.MODEL check
Build.MANUFACTURER check
Build.PRODUCT check
Build.HARDWARE check
Build.BOARD check
possible Build.SERIAL check
Build.TAGS check
network operator name check
possible ro.secure check
possible VM check</td></tr>
<tr><td>Anti Debug Code</td><td>Debug.isDebuggerConnected() check</td></tr>
<tr><td>Compiler</td><td>dexlib 2.x</td></tr>
</table>
</td></tr>
</table>

FILE	DETAILS
classes5.dex	<table><tr><th>FINDINGS</th><th>DETAILS</th></tr><tr><td>Anti-VM Code</td><td>Build.MANUFACTURER check Build.BOARD check</td></tr><tr><td>Compiler</td><td>dx</td></tr></table>

BROWSABLE ACTIVITIES

ACTIVITY	INTENT
com.payoneer.MainActivity	Schemes: payoneer://, https://, Hosts: payoneer.app.link, payoneer-alternate.app.link, payoneer.test-app.link, payoneer-alternate.test-app.link,

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

MANIFEST ANALYSIS

HIGH: 1 | WARNING: 14 | INFO: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable upatched Android version Android 7.0, [minSdk=24]	high	This application can be installed on an older version of android that has multiple unfixed vulnerabilities. These devices won't receive reasonable security updates from Google. Support an Android version => 10, API 29 to receive reasonable security updates.
2	App has a Network Security Configuration [android:networkSecurityConfig=@xml/network_security_config_production]	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	Activity (com.payoneer.MainActivity) 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.

NO	ISSUE	SEVERITY	DESCRIPTION
4	Activity (com.facebook.flipper.android.diagnostics.FlipperDiagnosticActivity) 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	Broadcast Receiver (io.branch.referral.InstallListener) 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.
6	Broadcast Receiver (com.dieam.reactnativepushnotification.modules.RNPushNotificationActions) 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.
7	Broadcast Receiver (com.dieam.reactnativepushnotification.modules.RNPushNotificationPublisher) 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.
8	Broadcast Receiver (com.dieam.reactnativepushnotification.modules.RNPushNotificationBootEventReceiver) 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.
9	Service (com.dieam.reactnativepushnotification.modules.RNPushNotificationListenerService) 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
10	Broadcast Receiver (io.invertase.firebase.messaging.ReactNativeFirebaseMessagingReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.c2dm.permission.SEND [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
11	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]	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.

NO	ISSUE	SEVERITY	DESCRIPTION
12	Broadcast Receiver (com.google.firebase.iid.FirebaseInstanceIdReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.c2dm.permission.SEND [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
13	Service (androidx.work.impl.background.systemjob.SystemJobService) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.BIND_JOB_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.

NO	ISSUE	SEVERITY	DESCRIPTION
14	Broadcast Receiver (androidx.work.impl.diagnostics.DiagnosticsReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.DUMP [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
15	Activity (app.notifee.core.NotificationReceiverActivity) 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.
16	Broadcast Receiver (app.notifee.core.AlarmPermissionBroadcastReceiver) 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.

</> CODE ANALYSIS

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

NO	ISSUE	SEVERITY	STANDARDS	FILES

NO	ISSUE	SEVERITY	STANDARDS	FILES
1	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/entersekt/sdk/internal/setMultiChoiceModeListener.java com/fasterxml/uuid/EthernetAddress.java com/fasterxml/uuid/Generators.java com/fasterxml/uuid/Jug.java com/fasterxml/uuid/UUIDTimer.java com/fasterxml/uuid/impl/RandomBasedGenerator.java com/qualtrics/digital/SamplingUtil.java fsimpl/eX.java
2	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/entersekt/sdk/internal/Process.java com/entersekt/sdk/internal/fromString.java com/entersekt/sdk/internal/getAnimation.java com/fasterxml/uuid/Generators.java com/i2cinc/mcpsdk/c/b.java com/perimeterx/mobile_sdk/extensions/e.java fsimpl/aF.java io/ktor/util/CryptoKt__CryptoJvmKt.java io/ktor/util/NonceKt$nonceGeneratorJob$1.java
3	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/ReactNativeBlobUtil/ReactNativeBlobUtilBody.java com/i2cinc/mcpsdk/activity/a.java com/reactnativecommunity/webview/RNCWebViewModuleImpl.java com/toyberman/Utils/OkHttpUtils.java fr/greweb/reactnativeviewshot/RNViewShotModule.java fsimpl/A.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
4	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/entersekt/sdk/internal/getContentDescription.java com/entersekt/sdk/internal/getHorizontalScrollbarThumbDrawable.java com/entersekt/sdk/internal/getHorizontalScrollbarTrackDrawable.java com/entersekt/sdk/internal/getScrollIndicators.java com/entersekt/sdk/internal/getTouchDelegate.java com/entersekt/sdk/internal/getVerticalScrollbarThumbDrawable.java com/entersekt/sdk/internal/getVerticalScrollbarTrackDrawable.java com/entersekt/sdk/internal/getVerticalScrollbarWidth.java com/entersekt/sdk/internal/setAccessibilityDelegate.java com/entersekt/sdk/internal/setFadingEdgeLength.java com/entersekt/sdk/internal/setHorizontalScrollbarThumbDrawable.java com/entersekt/sdk/internal/setHorizontalScrollbarTrackDrawable.java com/entersekt/sdk/internal/setOnFocusChangeListener.java com/entersekt/sdk/internal/setVerticalScrollbarPosition.java com/entersekt/sdk/internal/setVerticalScrollbarThumbDrawable.java com/reactnativecommunity/asyncstorage/AsyncLocalStorageUtil.java com/reactnativecommunity/asyncstorage/ReactDatabaseSupplier.java
				app/notifee/core/b.java cl/json/RNSharePathUtil.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				cl/json/social/SingleShareIntent.java com/airbnb/android/react/lottie/LottieAnimationViewPropertyManager.java com/dieam/reactnativepushnotification/helpers/ApplicationBadgeHelper.java com/entersekt/sdk/internal/CertificatePinner.java com/entersekt/sdk/internal/isTrustedCertificate.java com/fasterxml/uuid/Jug.java com/fullstory/FS.java com/fullstory/instrumentation/Bootstrap.java com/fullstory/instrumentation/InstrumentInjectorBridgeImpl.java com/fullstory/instrumentation/init/Initialization.java com/fullstory/instrumentation/webview/WebViewTracker.java com/fullstory/jni/FSNative.java com/fullstory/rust/RustInterface.java com/fullstory/util/Log.java com/horcrux/svg/Brush.java com/horcrux/svg/ClipPathView.java com/horcrux/svg/ImageView.java com/horcrux/svg/LinearGradientView.java com/horcrux/svg/PatternView.java com/horcrux/svg/RadialGradientView.java com/horcrux/svg/UseView.java com/horcrux/svg/VirtualView.java com/learnium/RNDeviceInfo/RNDeviceModule.java com/learnium/RNDeviceInfo/RNInstallReferrerClient.java com/learnium/RNDeviceInfo/resolver/DeviceIdResolver.java com/perimeterx/mobile_sdk/doctor_app/c.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/proyecto26/inappbrowser/RNInAppBrowser.java com/qualtrics/digital/Qualtrics.java com/reactnativecommunity/asyncstorage/AsyncStorageModule.java com/reactnativecommunity/asyncstorage/ReactDatabaseSupplier.java com/scottyab/rootbeer/RootBeer.java com/scottyab/rootbeer/RootBeerNative.java com/thoughtworks/xstream/core/JVM.java com/zoontek/rnpermissions/RNPermissionsModule.java expo/modules/core/logging/OSLogHandler.java fsimpl/AbstractC0240g.java fsimpl/AbstractC0242i.java fsimpl/AbstractC0243j.java fsimpl/B.java fsimpl/C0096a.java fsimpl/C0098ab.java fsimpl/C0100ad.java fsimpl/C0101ae.java fsimpl/C0104ah.java fsimpl/C0109am.java fsimpl/C0110an.java fsimpl/C0114ar.java fsimpl/C0116at.java fsimpl/C0123b.java fsimpl/C0129bf.java fsimpl/C0132bi.java fsimpl/C0148by.java fsimpl/C0152cb.java fsimpl/C0184dg.java fsimpl/C0185dh.java fsimpl/C0191dn.java fsimpl/C0192dp.java fsimpl/C0199dw.java fsimpl/C0201dy.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
5	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	fsimpl/C0202dz.java fsimpl/C0203e.java fsimpl/C0204ea.java fsimpl/C0209ef.java fsimpl/C0214ek.java fsimpl/C0219ep.java fsimpl/C0222es.java fsimpl/C0234fd.java fsimpl/C0244k.java fsimpl/C0249p.java fsimpl/D.java fsimpl/H.java fsimpl/L.java fsimpl/O.java fsimpl/Q.java fsimpl/aE.java fsimpl/aF.java fsimpl/aG.java fsimpl/aJ.java fsimpl/aL.java fsimpl/aR.java fsimpl/aV.java fsimpl/aX.java fsimpl/bA.java fsimpl/bD.java fsimpl/bR.java fsimpl/bT.java fsimpl/bU.java fsimpl/bX.java fsimpl/dF.java fsimpl/dJ.java fsimpl/dO.java fsimpl/eC.java fsimpl/eV.java fsimpl/fj.java fsimpl/ft.java fsimpl/fu.java fsstub/b.java io/invertase/firebase/common/ReactNativeFirebaseEventEmitter.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				io/ktor/http/parsing/DebugKt.java io/ktor/util/CoroutinesUtilsKt.java me/leolin/shortcutbadger/ShortcutBadger.java minimatch/SysErrDebugger.java net/time4j/base/ResourceLoader.java net/time4j/format/expert/ChronoFormatter.java net/time4j/format/expert/CustomizedProcessor.java net/time4j/format/expert/DecimalProcessor.java net/time4j/format/expert/FormatStep.java net/time4j/format/expert/FractionProcessor.java net/time4j/format/expert/IgnorableWhitespaceProcessor.java net/time4j/format/expert/Iso8601Format.java net/time4j/format/expert/LiteralProcessor.java net/time4j/format/expert/LocalizedGMTProcessor.java net/time4j/format/expert/LookupProcessor.java net/time4j/format/expert/MultiFormatParser.java net/time4j/format/expert/NumberProcessor.java net/time4j/format/expert/OrdinalProcessor.java net/time4j/format/expert/SkipProcessor.java net/time4j/format/expert/StyleProcessor.java net/time4j/format/expert/TextProcessor.java net/time4j/format/expert/TimezoneGenericProcessor.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				net/time4j/format/expert/TimezoneIDProcessor.java net/time4j/format/expert/TimezoneNameProcessor.java net/time4j/format/expert/TimezoneOffsetProcessor.java net/time4j/format/expert/TwoDigitYearProcessor.java net/time4j/i18n/WeekdataProviderSPI.java net/time4j/tz/spi/ZoneNameProviderSPI.java org/greenrobot/eventbus/Logger.java org/slf4j/helpers/Util.java org/xmlpull/v1/XmlPullParserException.java
				com/amplitude/reactnative/AmplitudeReactNativeModule.java com/dieam/reactnativepushnotification/modules/RNPushNotificationHelper.java com/entersekt/sdk/internal/CertificatePinner.java com/entersekt/sdk/internal/getRole.java com/entersekt/sdk/internal/isSelected.java com/entersekt/sdk/internal/isValidationRequired.java com/i2cinc/mcpsdk/pushprovisioning/BasePushProvisioningProvider.java com/oblador/keychain/KeychainModule.java com/qualtrics/digital/EmbeddedFeedbackUtils.java com/qualtrics/digital/EmbeddedFeedbackUtilsJava.java com/qualtrics/digital/ExpressionDeserializer.java com/qualtrics/digital/QualtricsPopOverFragment.java com/qualtrics/digital/SDKUtils.java com/qualtrics/digital/XMDUtils.java com/qualtrics/digital/utils/TranslationUtils.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
6	This 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/toyberman/RNSslPinningModule.java com/toyberman/Utils/OkHttpUtils.java expo/modules/adapters/react/NativeModulesProxy.java expo/modules/interfaces/permissions/PermissionsResponse.java io/branch/referral/Branch.java io/branch/referral/BranchPreinstall.java io/branch/referral/PrefHelper.java io/branch/referral/ServerRequest.java io/branch/referral/ServerRequestQueue.java io/branch/referral/UniversalResourceAnalyser.java io/branch/referral/validators/DeepLinkRoutingValidator.java io/invertase/firebase/common/TaskExecutorService.java io/invertase/firebase/messaging/ReactNativeFirebaseMessagingHeadlessService.java io/invertase/firebase/messaging/ReactNativeFirebaseMessagingSerializer.java io/invertase/notifee/NotifeeEventSubscriber.java io/ktor/client/request/forms/FormPart.java io/ktor/http/auth/HttpAuthHeader.java io/ktor/util/PlatformUtilsJvmKt.java net/time4j/tz/spi/WinZoneProviderSPI.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
7	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-4	com/entersekt/sdk/internal/getOtp.java com/i2cinc/mcpsdk/utils/d.java com/perimeterx/mobile_sdk/api_data/m.java com/qualtrics/digital/LatencyReportingService.java com/qualtrics/digital/SiteInterceptService.java com/toyberman/Utils/OkHttpUtils.java
8	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/perimeterx/mobile_sdk/PerimeterX.java com/qualtrics/digital/QualtricsSurveyFragment.java
9	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/ReactNativeBlobUtil/ReactNativeBlobUtilUtils.java com/airbnb/lottie/network/NetworkCache.java expo/modules/asset/AssetModule.java expo/modules/filesystem/FileSystemModule.java io/ktor/client/plugins/cache/storage/FileCacheStorage.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
10	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/ReactNativeBlobUtil/ReactNativeBlobUtilFS.java com/ReactNativeBlobUtil/Utils/PathResolver.java com/learnium/RNDeviceInfo/RNDeviceModule.java com/reactnativecommunity/webview/RNCWebViewModuleImpl.java com/rnfs/RNFSManager.java fsimpl/bU.java io/invertase/firebase/utils/ReactNativeFirebaseUtilsModule.java
11	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	com/RNRSA/CsrHelper.java com/entersekt/sdk/internal/getButtons.java com/entersekt/sdk/internal/getCurrentContentInsetEnd.java com/entersekt/sdk/internal/getDeclaringClass.java com/entersekt/sdk/internal/getId.java com/entersekt/sdk/internal/getServiceId.java com/entersekt/sdk/internal/isAnonymousClass.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
12	This App may have root detection capabilities.	secure	OWASP MASVS: MSTG-RESILIENCE-1	com/gantix/JailMonkey/Rooted/GreaterThan23.java com/gantix/JailMonkey/Rooted/LessThan23.java com/i2cinc/mcpsdk/utils/e.java com/perimeterx/mobile_sdk/configurations/h.java com/scottyab/rootbeer/RootBeer.java siftscience/android/DevicePropertiesCollector.java
13	This App copies data to clipboard. Sensitive data should not be copied to clipboard as other applications can access it.	info	OWASP MASVS: MSTG-STORAGE-10	com/reactnativecommunity/clipboard/ClipboardModule.java io/branch/referral/ShareLinkManager.java
14	This app listens to Clipboard changes. Some malware also listen to Clipboard changes.	info	OWASP MASVS: MSTG-PLATFORM-4	com/reactnativecommunity/clipboard/ClipboardModule.java
15	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	br/com/classapp/RNSensitiveInfo/RNSensitiveInfoModule.java com/i2cinc/mcpsdk/c/b.java
16	This App may request root (Super User) privileges.	warning	CWE: CWE-250: Execution with Unnecessary Privileges OWASP MASVS: MSTG-RESILIENCE-1	com/gantix/JailMonkey/HookDetection/HookDetectionCheck.java com/scottyab/rootbeer/Const.java siftscience/android/DevicePropertiesCollector.java
17	This App uses SafetyNet API.	secure	OWASP MASVS: MSTG-RESILIENCE-7	com/entersekt/sdk/internal/setOnKeyListener.java

NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

BEHAVIOUR ANALYSIS

RULE ID	BEHAVIOUR	LABEL	FILES

RULE ID	BEHAVIOUR	LABEL	FILES
00063	Implicit intent(view a web page, make a phone call, etc.)	control	app/notifee/core/Notifee.java cl/json/RNShareImpl.java cl/json/social/InstagramShare.java cl/json/social/SingleShareIntent.java com/ReactNativeBlobUtil/ReactNativeBlobUtilImpl.java com/ReactNativeBlobUtil/ReactNativeBlobUtilReq.java com/dieam/reactnativepushnotification/modules/RNPushNotificationHelper.java com/github/barteksc/pdfviewer/link/DefaultLinkHandler.java com/i2cinc/mcpsdk/activity/a.java com/perimeterx/mobile_sdk/doctor_app/ui/m.java com/proyecto26/inappbrowser/RNInAppBrowser.java com/qualtrics/digital/QualtricsNotificationManager.java com/qualtrics/digital/QualtricsPopOverActivity.java com/qualtrics/digital/QualtricsSurveyFragment.java com/samsung/android/sdk/samsungpay/v2/SamsungPay.java com/samsung/android/sdk/samsungpay/v2/WatchManager.java expo/modules/adapters/react/permissions/PermissionsService.java expo/modules/filesystem/FileSystemModule.java io/branch/referral/Branch.java io/branch/referral/validators/DeepLinkRoutingValidator.java io/branch/rnbranch/RNBranchModule.java me/leolin/shortcutbadger/impl/OPPOHomeBader.java me/leolin/shortcutbadger/impl/SonyHomeBadger.java n/o/t/i/f/e/e/m.java

RULE ID	BEHAVIOUR	LABEL	FILES
00051	Implicit intent(view a web page, make a phone call, etc.) via setData	control	app/notifee/core/Notifee.java cl/json/social/InstagramShare.java com/ReactNativeBlobUtil/ReactNativeBlobUtilReq.java com/i2cinc/mcpsdk/activity/a.java com/proyecto26/inappbrowser/RNInAppBrowser.java com/qualtrics/digital/QualtricsNotificationManager.java com/samsung/android/sdk/samsungpay/v2/SamsungPay.java com/samsung/android/sdk/samsungpay/v2/WatchManager.java expo/modules/adapters/react/permissions/PermissionsService.java io/branch/referral/Branch.java io/branch/rnbranch/RNBranchModule.java n/o/t/i/f/e/e/m.java
00189	Get the content of a SMS message	sms	com/ReactNativeBlobUtil/Utils/PathResolver.java com/imagepicker/Utils.java com/reactnativedocumentpicker/RNDocumentPickerModule.java me/leolin/shortcutbadger/impl/SamsungHomeBadger.java
00188	Get the address of a SMS message	sms	com/ReactNativeBlobUtil/Utils/PathResolver.java com/imagepicker/Utils.java com/reactnativedocumentpicker/RNDocumentPickerModule.java me/leolin/shortcutbadger/impl/SamsungHomeBadger.java
00200	Query data from the contact list	collection contact	com/ReactNativeBlobUtil/Utils/PathResolver.java com/imagepicker/Utils.java com/reactnativedocumentpicker/RNDocumentPickerModule.java me/leolin/shortcutbadger/impl/SamsungHomeBadger.java
00201	Query data from the call log	collection calllog	com/ReactNativeBlobUtil/Utils/PathResolver.java com/imagepicker/Utils.java com/reactnativedocumentpicker/RNDocumentPickerModule.java me/leolin/shortcutbadger/impl/SamsungHomeBadger.java

RULE ID	BEHAVIOUR	LABEL	FILES
00077	Read sensitive data(SMS, CALLLOG, etc)	collection sms calllog calendar	com/ReactNativeBlobUtil/Utils/PathResolver.java com/imagepicker/Utils.java com/reactnativedocumentpicker/RNDocumentPickerModule.java me/leolin/shortcutbadger/impl/SamsungHomeBadger.java
00026	Method reflection	reflection	com/entersekt/sdk/internal/getAccessibilityClassName.java com/entersekt/sdk/internal/getAccessibilityPaneTitle.java com/entersekt/sdk/internal/getAutofillHints.java com/entersekt/sdk/internal/getAutofillId.java com/entersekt/sdk/internal/getAutofillType.java com/entersekt/sdk/internal/getAutofillValue.java com/entersekt/sdk/internal/getContentCaptureSession.java com/entersekt/sdk/internal/getExplicitStyle.java com/entersekt/sdk/internal/getImportantForAutofill.java com/entersekt/sdk/internal/getImportantForContentCapture.java com/entersekt/sdk/internal/getReceiveContentMimeTypes.java com/entersekt/sdk/internal/getRevealOnFocusHint.java com/entersekt/sdk/internal/isLoggable.java com/entersekt/sdk/internal/setAccessibilityPaneTitle.java com/entersekt/sdk/internal/setAutofillId.java com/entersekt/sdk/internal/setContentCaptureSession.java com/entersekt/sdk/internal/setImportantForAutofill.java com/entersekt/sdk/internal/setMultiChoiceModeListener.java com/entersekt/sdk/internal/setOnClickListener.java com/entersekt/sdk/internal/setOnDragListener.java com/entersekt/sdk/internal/setOnHoverListener.java com/entersekt/sdk/internal/setOnReceiveContentListener.java com/entersekt/sdk/internal/setRevealOnFocusHint.java com/thoughtworks/xstream/converters/reflection/CGLIBEnhancedConverter.java

RULE ID	BEHAVIOUR	LABEL	FILES
00036	Get resource file from res/raw directory	reflection	app/notifee/core/Notifee.java cl/json/RNSharePathUtil.java com/dieam/reactnativepushnotification/modules/RNPushNotificationHelper.java com/i2cinc/mcpsdk/activity/a.java com/proyecto26/inappbrowser/RNInAppBrowser.java expo/modules/adapters/react/permissions/PermissionsService.java expo/modules/filesystem/FileSystemModule.java io/branch/referral/Branch.java io/invertase/firebase/common/SharedUtils.java me/leolin/shortcutbadger/impl/EverythingMeHomeBadger.java me/leolin/shortcutbadger/impl/HuaweiHomeBadger.java me/leolin/shortcutbadger/impl/NovaHomeBadger.java me/leolin/shortcutbadger/impl/OPPOHomeBader.java me/leolin/shortcutbadger/impl/SamsungHomeBadger.java me/leolin/shortcutbadger/impl/SonyHomeBadger.java n/o/t/i/f/e/e/n.java
00078	Get the network operator name	collection telephony	com/amplitude/reactnative/AndroidContextProvider.java com/learnium/RNDeviceInfo/RNDeviceModule.java com/perimeterx/mobile_sdk/detections/device/b.java io/branch/referral/SystemObserver.java siftscience/android/DevicePropertiesCollector.java
00132	Query The ISO country code	telephony collection	com/amplitude/reactnative/AndroidContextProvider.java
00094	Connect to a URL and read data from it	command network	com/shopify/reactnative/skia/PlatformContext.java fsimpl/C0185dh.java fsimpl/C0201dy.java fsimpl/C0202dz.java net/time4j/tz/spi/TimezoneRepositoryProviderSPI.java siftscience/android/Uploader.java

RULE ID	BEHAVIOUR	LABEL	FILES
00147	Get the time of current location	collection location	com/entersekt/sdk/internal/getEastAsianWidth.java
00075	Get location of the device	collection location	com/entersekt/sdk/internal/getEastAsianWidth.java
00096	Connect to a URL and set request method	command network	com/airbnb/lottie/network/DefaultLottieNetworkFetcher.java com/i2cinc/mcpsdk/a.java com/i2cinc/mcpsdk/asynctask/BaseAsyncTask.java fsimpl/C0185dh.java fsimpl/C0201dy.java fsimpl/C0202dz.java fsimpl/eG.java siftscience/android/Uploader.java
00089	Connect to a URL and receive input stream from the server	command network	com/entersekt/sdk/internal/setOnItemClickListener.java com/i2cinc/mcpsdk/a.java com/rnfs/Downloader.java fsimpl/C0185dh.java fsimpl/C0201dy.java fsimpl/C0202dz.java siftscience/android/Uploader.java
00109	Connect to a URL and get the response code	network command	com/rnfs/Downloader.java fsimpl/C0185dh.java fsimpl/C0201dy.java fsimpl/C0202dz.java fsimpl/eG.java siftscience/android/Uploader.java
00108	Read the input stream from given URL	network command	fsimpl/C0185dh.java fsimpl/C0201dy.java fsimpl/C0202dz.java siftscience/android/Uploader.java

RULE ID	BEHAVIOUR	LABEL	FILES
00022	Open a file from given absolute path of the file	file	cl/json/RNSharePathUtil.java cl/json/ShareFile.java cl/json/ShareFiles.java com/ReactNativeBlobUtil/ReactNativeBlobUtilFS.java com/ReactNativeBlobUtil/ReactNativeBlobUtilReq.java com/ReactNativeBlobUtil/Utils/PathResolver.java com/airbnb/lottie/LottieCompositionFactory.java com/airbnb/lottie/network/NetworkCache.java com/airbnb/lottie/network/NetworkFetcher.java com/i2cinc/mcpsdk/activity/a.java com/perimeterx/mobile_sdk/doctor_app/a.java com/reactnativedocumentpicker/RNDocumentPickerModule.java com/rnfs/RNFSManager.java expo/modules/filesystem/FileSystemModule.java fr/greweb/reactnativeviewshot/RNViewShotModule.java fsimpl/C0100ad.java fsimpl/C0199dw.java fsimpl/dF.java fsimpl/dJ.java io/invertase/firebase/utils/ReactNativeFirebaseUtilsModule.java
00024	Write file after Base64 decoding	reflection file	cl/json/ShareFile.java cl/json/ShareFiles.java com/ReactNativeBlobUtil/ReactNativeBlobUtilBody.java com/ReactNativeBlobUtil/ReactNativeBlobUtilReq.java com/airbnb/lottie/LottieCompositionFactory.java expo/modules/filesystem/FileSystemModule.java

RULE ID	BEHAVIOUR	LABEL	FILES
00013	Read file and put it into a stream	file	com/ReactNativeBlobUtil/ReactNativeBlobUtilBody.java com/ReactNativeBlobUtil/ReactNativeBlobUtilFS.java com/ReactNativeBlobUtil/ReactNativeBlobUtilMediaCollection.java com/ReactNativeBlobUtil/ReactNativeBlobUtilStream.java com/airbnb/lottie/network/NetworkCache.java com/airbnb/lottie/network/NetworkFetcher.java com/entersekt/sdk/internal/DexFile.java com/entersekt/sdk/internal/Process.java com/entersekt/sdk/internal/getAccessibilityPaneTitle.java com/entersekt/sdk/internal/getExplicitStyle.java com/reactnativecommunity/asyncstorage/AsyncStorageExpoMigration.java com/rnfs/RNFSManager.java com/rnfs/Uploader.java com/thoughtworks/xstream/io/AbstractDriver.java com/thoughtworks/xstream/io/json/JettisonMappedXmlDriver.java com/thoughtworks/xstream/io/xml/StaxDriver.java com/thoughtworks/xstream/persistence/AbstractFilePersistenceStrategy.java expo/modules/asset/AssetModule.java expo/modules/core/logging/PersistentFileLog.java expo/modules/filesystem/FileSystemModule.java fsimpl/C0201dy.java fsimpl/bU.java fsimpl/dF.java io/ktor/client/plugins/cache/storage/FileCacheStorage.java okio/Okio__JvmOkioKt.java
00029	Initialize class object dynamically	reflection	com/entersekt/sdk/internal/setMultiChoiceModeListener.java com/thoughtworks/xstream/XStream.java
00157	Instantiate new object using reflection, possibly used for dexClassLoader	reflection dexClassLoader	com/thoughtworks/xstream/XStream.java

RULE ID	BEHAVIOUR	LABEL	FILES
00046	Method reflection	reflection	com/entersekt/sdk/internal/setMultiChoiceModeListener.java com/thoughtworks/xstream/XStream.java com/thoughtworks/xstream/core/JVM.java com/thoughtworks/xstream/core/util/CompositeClassLoader.java
00056	Modify voice volume	control	com/zmxv/RNSound/RNSoundModule.java
00012	Read data and put it into a buffer stream	file	com/rnfs/Uploader.java io/ktor/client/plugins/cache/storage/FileCacheStorage.java
00009	Put data in cursor to JSON object	file	com/amplitude/reactnative/LegacyDatabaseStorage.java com/entersekt/sdk/internal/setFadingEdgeLength.java com/reactnativecommunity/asyncstorage/AsyncLocalStorageUtil.java
00121	Create a directory	file command	expo/modules/filesystem/FileSystemModule.java
00125	Check if the given file path exist	file	com/ReactNativeBlobUtil/ReactNativeBlobUtilReq.java com/perimeterx/mobile_sdk/detections/device/b.java expo/modules/filesystem/FileSystemModule.java
00104	Check if the given path is directory	file	expo/modules/filesystem/FileSystemModule.java
00032	Load external class	reflection	com/thoughtworks/xstream/core/util/CompositeClassLoader.java
00043	Calculate WiFi signal strength	collection wifi	com/reactnativecommunity/netinfo/ConnectivityReceiver.java
00034	Query the current data network type	collection network	com/perimeterx/mobile_sdk/detections/device/b.java

RULE ID	BEHAVIOUR	LABEL	FILES
00091	Retrieve data from broadcast	collection	com/ReactNativeBlobUtil/ReactNativeBlobUtilReq.java com/dieam/reactnativepushnotification/modules/RNPushNotification.java com/dieam/reactnativepushnotification/modules/RNPushNotificationPublisher.java com/i2cinc/mcpsdk/activity/a.java com/payoneer/MainActivity.java com/perimeterx/mobile_sdk/detections/device/b.java com/qualtrics/digital/QualtricsNotificationManager.java io/branch/referral/Branch.java
00014	Read file into a stream and put it into a JSON object	file	fsimpl/dF.java
00005	Get absolute path of file and put it to JSON object	file	com/airbnb/lottie/LottieCompositionFactory.java fsimpl/dF.java
00004	Get filename and put it to JSON object	file collection	com/airbnb/lottie/LottieCompositionFactory.java fsimpl/dF.java
00181	Load native libraries(.so) via System.load (60% means caught)	so	com/entersekt/sdk/internal/getExplicitStyle.java com/entersekt/sdk/internal/isLoggable.java com/entersekt/sdk/internal/setOnClickListener.java
00003	Put the compressed bitmap data into JSON object	camera	io/branch/referral/network/BranchRemoteInterfaceUrlConnection.java
00192	Get messages in the SMS inbox	sms	cl/json/RNSharePathUtil.java com/ReactNativeBlobUtil/Utils/PathResolver.java com/rnfs/RNFSManager.java
00028	Read file from assets directory	file	com/rnfs/RNFSManager.java

RULE ID	BEHAVIOUR	LABEL	FILES
00072	Write HTTP input stream into a file	command network file	com/rnfs/Downloader.java
00030	Connect to the remote server through the given URL	network	com/airbnb/lottie/network/DefaultLottieNetworkFetcher.java com/i2cinc/mcpsdk/a.java com/rnfs/Downloader.java siftscience/android/Uploader.java
00062	Query WiFi information and WiFi Mac Address	wifi collection	com/learnium/RNDeviceInfo/RNDeviceModule.java
00038	Query the phone number	collection	com/learnium/RNDeviceInfo/RNDeviceModule.java
00130	Get the current WIFI information	wifi collection	com/learnium/RNDeviceInfo/RNDeviceModule.java
00134	Get the current WiFi IP address	wifi collection	com/learnium/RNDeviceInfo/RNDeviceModule.java
00082	Get the current WiFi MAC address	collection wifi	com/learnium/RNDeviceInfo/RNDeviceModule.java
00011	Query data from URI (SMS, CALLLOGS)	sms calllog collection	com/ReactNativeBlobUtil/Utils/PathResolver.java me/leolin/shortcutbadger/impl/SamsungHomeBadger.java
00191	Get messages in the SMS inbox	sms	com/ReactNativeBlobUtil/ReactNativeBlobUtilReq.java com/ReactNativeBlobUtil/Utils/PathResolver.java io/branch/coroutines/InstallReferrersKt.java me/leolin/shortcutbadger/impl/SamsungHomeBadger.java
00187	Query a URI and check the result	collection sms calllog calendar	me/leolin/shortcutbadger/impl/SamsungHomeBadger.java
00103	Check the active network type	network	com/entersekt/sdk/internal/getCallingUid.java

RULE ID	BEHAVIOUR	LABEL	FILES
00175	Get notification manager and cancel notifications	notification	com/dieam/reactnativepushnotification/modules/RNPushNotificationHelper.java
00019	Find a method from given class name, usually for reflection	reflection	com/entersekt/sdk/internal/getRendererPriorityWaivedWhenNotVisible.java com/entersekt/sdk/internal/setMultiChoiceModeListener.java
00068	Executes the specified string Linux command	control	com/entersekt/sdk/internal/setOnCreateContextMenuListener.java
00069	Run shell script programmably	control	com/entersekt/sdk/internal/setOnCreateContextMenuListener.java
00065	Get the country code of the SIM card provider	collection	siftscience/android/DevicePropertiesCollector.java
00123	Save the response to JSON after connecting to the remote server	network command	com/i2cinc/mcpsdk/a.java
00092	Send broadcast	command	io/branch/rnbranch/RNBranchModule.java

FIREBASE DATABASES ANALYSIS

TITLE	SEVERITY	DESCRIPTION
App talks to a Firebase database	info	The app talks to Firebase database at https://payoneer-a2928.firebaseio.com

TITLE	SEVERITY	DESCRIPTION
Firebase Remote Config disabled	secure	Firebase Remote Config is disabled for https://firebaseremoteconfig.googleapis.com/v1/projects/956868168111/namespaces/firebase:fetch?key=AIzaSyBuGgoGGpM07j1cbKQj9FbXOfZdKNTqexc. This is indicated by the response: {'state': 'NO_TEMPLATE'}

ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	9/25	android.permission.ACCESS_NETWORK_STATE, android.permission.RECEIVE_BOOT_COMPLETED, android.permission.VIBRATE, android.permission.INTERNET, android.permission.CAMERA, android.permission.READ_EXTERNAL_STORAGE, android.permission.WRITE_EXTERNAL_STORAGE, android.permission.ACCESS_WIFI_STATE, android.permission.WAKE_LOCK
Other Common Permissions	5/44	com.google.android.c2dm.permission.RECEIVE, com.google.android.gms.permission.AD_ID, com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE, android.permission.FOREGROUND_SERVICE, android.permission.ACCESS_NOTIFICATION_POLICY

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
api2.branch.io	IP: 52.84.45.5 Country: Hong Kong Region: Hong Kong City: Hong Kong
ktor.io	IP: 52.84.45.128 Country: Hong Kong Region: Hong Kong City: Hong Kong

DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
payoneer-a2928.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
xml.org	ok	**IP:** 104.239.240.11 **Country:** United States of America **Region:** Texas **City:** Windcrest **Latitude:** 29.499678 **Longitude:** -98.399246 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
twitter.com	ok	**IP:** 104.244.42.1 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.773968 **Longitude:** -122.410446 **View:** Google Map
api.branch.io	ok	**IP:** 3.164.85.2 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.627499 **Longitude:** -122.346199 **View:** Google Map
s-s.s	ok	No Geolocation information available.
docs.swmansion.com	ok	**IP:** 172.67.142.188 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
com.thoughtworks.xstream	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
shopify.github.io	ok	**IP:** 185.199.108.153 **Country:** United States of America **Region:** Pennsylvania **City:** California **Latitude:** 40.065632 **Longitude:** -79.891708 **View:** Google Map
s.qualtrics.com	ok	**IP:** 23.205.93.95 **Country:** Netherlands **Region:** Noord-Holland **City:** Amsterdam **Latitude:** 52.374031 **Longitude:** 4.889690 **View:** Google Map
play.google.com	ok	**IP:** 172.217.169.142 **Country:** United States of America **Region:** California **City:** Mountain View **Latitude:** 37.405991 **Longitude:** -122.078514 **View:** Google Map
notifee.app	ok	**IP:** 3.124.100.143 **Country:** Germany **Region:** Hessen **City:** Frankfurt am Main **Latitude:** 50.115520 **Longitude:** 8.684170 **View:** Google Map
perimeterx.net	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
apache.org	ok	**IP:** 151.101.2.132 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
cdn.branch.io	ok	**IP:** 18.161.111.58 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.627499 **Longitude:** -122.346199 **View:** Google Map
plus.google.com	ok	**IP:** 142.250.184.142 **Country:** United States of America **Region:** California **City:** Mountain View **Latitude:** 37.405991 **Longitude:** -122.078514 **View:** Google Map
www.facebook.com	ok	**IP:** 157.240.9.35 **Country:** Bulgaria **Region:** Sofia (stolitsa) **City:** Sofia **Latitude:** 42.697510 **Longitude:** 23.324150 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
bnc.lt	ok	**IP:** 18.161.97.95 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.627499 **Longitude:** -122.346199 **View:** Google Map
docs.perimeterx.com	ok	**IP:** 35.241.52.23 **Country:** United States of America **Region:** Missouri **City:** Kansas City **Latitude:** 39.099731 **Longitude:** -94.578568 **View:** Google Map
www.slf4j.org	ok	**IP:** 195.15.222.169 **Country:** Switzerland **Region:** Basel-Stadt **City:** Basel **Latitude:** 47.558399 **Longitude:** 7.573270 **View:** Google Map
branch.app.link	ok	**IP:** 18.161.111.126 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.627499 **Longitude:** -122.346199 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
api3-eu.branch.io	ok	**IP:** 18.161.111.85 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.627499 **Longitude:** -122.346199 **View:** Google Map
xmlpull.org	ok	**IP:** 185.199.110.153 **Country:** United States of America **Region:** Pennsylvania **City:** California **Latitude:** 40.065632 **Longitude:** -79.891708 **View:** Google Map
api2.branch.io	ok	**IP:** 52.84.45.5 **Country:** Hong Kong **Region:** Hong Kong **City:** Hong Kong **Latitude:** 22.285521 **Longitude:** 114.157692 **View:** Google Map
help.branch.io	ok	**IP:** 104.16.241.118 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
survey.qualtrics.com	ok	**IP:** 23.205.93.95 **Country:** Netherlands **Region:** Noord-Holland **City:** Amsterdam **Latitude:** 52.374031 **Longitude:** 4.889690 **View:** Google Map
pinterest.com	ok	**IP:** 151.101.64.84 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
perimeterx.jfrog.io	ok	**IP:** 18.214.229.238 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
ktor.io	ok	**IP:** 52.84.45.128 **Country:** Hong Kong **Region:** Hong Kong **City:** Hong Kong **Latitude:** 22.285521 **Longitude:** 114.157692 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
www.w3.org	ok	**IP:** 104.18.22.19 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
api3.siftscience.com	ok	**IP:** 35.244.208.123 **Country:** United States of America **Region:** Missouri **City:** Kansas City **Latitude:** 39.099731 **Longitude:** -94.578568 **View:** Google Map
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

EMAILS

EMAIL	FILE
this@copy.slice	io/ktor/util/NIOKt.java

EMAIL	FILE
null@null.xml	com/thoughtworks/xstream/persistence/FilePersistenceStrategy.java

TRACKERS

TRACKER	CATEGORIES	URL
Amplitude	Profiling, Analytics	https://reports.exodus-privacy.eu.org/trackers/125
Branch	Analytics	https://reports.exodus-privacy.eu.org/trackers/167
Facebook Flipper	Analytics	https://reports.exodus-privacy.eu.org/trackers/392
Google CrashLytics	Crash reporting	https://reports.exodus-privacy.eu.org/trackers/27
Google Firebase Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/49
Qualtrics		https://reports.exodus-privacy.eu.org/trackers/306
fullstory	Analytics	https://reports.exodus-privacy.eu.org/trackers/415

HARDCODED SECRETS

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POSSIBLE SECRETS
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PLAYSTORE INFORMATION

Title: Payoneer

Score: 4.419802 **Installs:** 5,000,000+ **Price:** 0 **Android Version Support:** **Category:** Finance **Play Store URL:** com.payoneer.android

Developer Details: Payoneer Inc., Payoneer+Inc., None, http://www.payoneer.com, MobileApp@payoneer.com,

Release Date: Oct 24, 2013 **Privacy Policy:** Privacy link

Description:

Payoneer is the leading cross-border payments platform for businesses. Our main mission? Streamline global commerce to empower businesses to go beyond. Millions of professionals use our platform every day to simplify their business payments. What can you do with Payoneer? Get paid by marketplaces, platforms, and clients Receive payments from clients and marketplaces located all over the world. Get paid in popular global currencies like USD, EUR, GBP, JPY, CAD, AUD, and more, via Payoneer receiving accounts. Withdraw funds directly to your local bank account in over 150 countries and currencies or from an ATM using the Payoneer card. Pay freelancers, service providers, suppliers, and contractors Make international business payments to over 200 countries and skip the delays and costly hidden fees of wire transfers. Payoneer is the preferred payment method of millions of freelancers and businesses around the world. Track your business payments every step of the way Follow up on your previous incoming and outgoing payments and view your dashboard of balances in multiple currencies. Easily manage currencies with competitive conversion rates so you control the currencies you are holding and can pay your suppliers in their preferred currency. Enjoy features designed with sellers in mind Pay your VAT in multiple countries and receive working capital offers for your Amazon and Walmart stores. Instantly receive funds in your account to grow your business in any way you can imagine, then settle gradually without constricting your cash flow. Do business confidently with Payoneer by your side Our multilingual customer care team is available 24/7 in over 20 languages via phone, email, Live Chat, and social media. We'll always do our best to make sure that your experience is a smooth one and whether you are making or receiving payments, we're only a few clicks away to help when needed. Why download the Payoneer app? The Payoneer mobile app was designed to complement your web-based account, and it puts a snapshot of your business payments right in your pocket, so you can manage your global payments on the go. Not using Payoneer yet? Join millions of professionals worldwide who are already using Payoneer to get paid quickly and securely! Visit our website to learn more or download the app now and sign up. Did we mention our app is available in over 20 languages? If you made it this far, we think you are ready to take your business beyond. Let's do it together.

SCAN LOGS

Timestamp	Event	Error
2024-11-14 20:32:26	Generating Hashes	OK

2024-11-14 20:32:26	Extracting APK	OK
2024-11-14 20:32:26	Unzipping	OK
2024-11-14 20:32:26	Getting Hardcoded Certificates/Keystores	OK
2024-11-14 20:32:26	Parsing APK with androguard	OK
2024-11-14 20:32:28	Parsing AndroidManifest.xml	OK
2024-11-14 20:32:28	Extracting Manifest Data	OK
2024-11-14 20:32:28	Performing Static Analysis on: Payoneer (com.payoneer.android)	OK
2024-11-14 20:32:28	Fetching Details from Play Store: com.payoneer.android	OK
2024-11-14 20:32:31	Manifest Analysis Started	OK
2024-11-14 20:32:33	Reading Network Security config from network_security_config_production.xml	OK
2024-11-14 20:32:33	Parsing Network Security config	OK

2024-11-14 20:32:33	Checking for Malware Permissions	OK
2024-11-14 20:32:33	Fetching icon path	OK
2024-11-14 20:32:33	Library Binary Analysis Started	OK
2024-11-14 20:32:33	Reading Code Signing Certificate	OK
2024-11-14 20:32:33	Running APKiD 2.1.5	OK
2024-11-14 20:32:39	Detecting Trackers	OK
2024-11-14 20:32:42	Decompiling APK to Java with JADX	OK
2024-11-14 20:33:23	Converting DEX to Smali	OK
2024-11-14 20:33:23	Code Analysis Started on - java_source	OK
2024-11-14 20:33:47	Android SAST Completed	OK
2024-11-14 20:33:47	Android API Analysis Started	OK

2024-11-14 20:33:53	Android API Analysis Completed	OK
2024-11-14 20:33:53	Android Permission Mapping Started	OK
2024-11-14 20:34:11	Android Permission Mapping Completed	OK
2024-11-14 20:34:13	Email and URL Extraction Completed	OK
2024-11-14 20:34:13	Android Behaviour Analysis Started	OK
2024-11-14 20:34:23	Android Behaviour Analysis Completed	OK
2024-11-14 20:34:23	Extracting String data from APK	OK
2024-11-14 20:34:23	Extracting String data from Code	OK
2024-11-14 20:34:23	Extracting String values and entropies from Code	OK
2024-11-14 20:34:29	Performing Malware check on extracted domains	OK
2024-11-14 20:34:42	Saving to Database	OK

Report Generated by - MobSF v4.1.9

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.