MOBSF

ANDROID STATIC ANALYSIS REPORT

Imprivata ID (2024.1.0.134)

File Name:	com.imprivata.imprivataid_134.apk
Package Name:	com.imprivata.imprivataid
Scan Date:	Aug. 30, 2025, 10:10 p.m.
App Security Score:	53/100 (MEDIUM RISK)
Grade:	
Trackers Detection:	1/432

FINDINGS SEVERITY

HIGH	MEDIUM	INFO	SECURE	HOTSPOT
1	23	2	2	1

FILE INFORMATION

File Name: com.imprivata.imprivataid_134.apk
Size: 72.72MB
MD5: 7793739fd47ff394c34afbe342c36ae4
SHA1: 2ecefc5783d9be2967f1317f5186866df984ad81
SHA256: 52fffd2880de2d9a5c39052f7fbe3149712861392a8d964baf2fe9b623f0747b

APP INFORMATION

App Name: Imprivata ID
Package Name: com.imprivata.imprivataid
Main Activity: com.imprivata.imprivataid.ui.activities.SplashActivity
Target SDK: 35
Min SDK: 23
Max SDK:
Android Version Name: 2024.1.0.134
Android Version Code: 134

APP COMPONENTS

Activities: 10
Services: 11
Receivers: 6
Providers: 2
Exported Activities: 8
Exported Services: 2
Exported Receivers: 4
Exported Providers: 0

CERTIFICATE INFORMATION

Binary is signed
v1 signature: True
v2 signature: True
v3 signature: False
v4 signature: False
X.509 Subject: C=US, ST=MA, L=Lexington, O=Imprivata, OU=OneSign Engineering, CN=Jeff Kleppinger
Signature Algorithm: rsassa_pkcs1v15
Valid From: 2016-03-14 17:25:53+00:00
Valid To: 2043-07-31 17:25:53+00:00
Issuer: C=US, ST=MA, L=Lexington, O=Imprivata, OU=OneSign Engineering, CN=Jeff Kleppinger
Serial Number: 0x439bcfae
Hash Algorithm: sha256
md5: 43fc2310c2ebb43ebc58778aa7b8783b
sha1: 9e748c8af6af733c353a868007448ae52e188e2c
sha256: cc9f2c9b987236909bf6447cb094cf5b3c0ecf8de752e7f94e7d4698e112859a
sha512: 41233f92256744f4601d3615a9c40a691aa13bb5b91f76468dd8a5b68984292a4c26dde23adf3da6d60b3d6ae5b7631913bb2271d47a0abe4e0e2f06f2d312da
PublicKey Algorithm: rsa
Bit Size: 2048
Fingerprint: 18e98932808063109d8b50d84c29e647ef37f679ceca574132b9bf8da3512967
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.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.VIBRATE	normal	control vibrator	Allows the application to control the vibrator.
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.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.POST_NOTIFICATIONS	dangerous	allows an app to post notifications.	Allows an app to post notifications
android.permission.BLUETOOTH_CONNECT	dangerous	necessary for connecting to paired Bluetooth devices.	Required to be able 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.
android.permission.BLUETOOTH	normal	create Bluetooth connections	Allows applications to connect to paired bluetooth devices.
android.permission.BLUETOOTH_ADMIN	normal	bluetooth administration	Allows applications to discover and pair bluetooth devices.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.FOREGROUND_SERVICE	normal	enables regular apps to use Service.startForeground.	Allows a regular application to use Service.startForeground.
android.permission.FOREGROUND_SERVICE_CONNECTED_DEVICE	normal	enables foreground services with connected device use.	Allows a regular application to use Service.startForeground with the type "connectedDevice".
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.ACTIVITY_RECOGNITION	dangerous	allow application to recognize physical activity	Allows an application to recognize physical activity.
com.google.android.gms.permission.ACTIVITY_RECOGNITION	dangerous	allow application to recognize physical activity	Allows an application to recognize physical activity.
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.
com.google.android.c2dm.permission.RECEIVE	normal	recieve push notifications	Allows an application to receive push notifications from cloud.
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	normal	permission defined by google	A custom permission defined by Google.
com.imprivata.imprivataid.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference

APKID ANALYSIS

FILE	DETAILS
classes.dex	FINDINGS: Anti-VM Code — DETAILS: Build.FINGERPRINT check Build.MANUFACTURER check Build.DEVICE check Build.TAGS check FINDINGS: Compiler — DETAILS: r8
classes2.dex	FINDINGS: Compiler — DETAILS: unknown (please file detection issue!)
classes3.dex	FINDINGS: Anti-VM Code — DETAILS: Build.MANUFACTURER check FINDINGS: Compiler — DETAILS: r8 without marker (suspicious)
classes4.dex	FINDINGS: Anti-VM Code — DETAILS: Build.MANUFACTURER check FINDINGS: Compiler — DETAILS: r8 without marker (suspicious)

BROWSABLE ACTIVITIES

ACTIVITY	INTENT
com.imprivata.epcs_mobile.ui.EpcsActivity	Schemes: https://, Hosts: confirmidauth.dev.common.imprivata.com, confirmidauth.cloud.imprivata.com, Path Prefixes: /iid,

NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

CERTIFICATE ANALYSIS

HIGH: **0** | WARNING: **1** | INFO: **1**

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate
Application vulnerable to Janus Vulnerability	warning	Application is signed with v1 signature scheme, making it vulnerable to Janus vulnerability on Android 5.0-8.0, if signed only with v1 signature scheme. Applications running on Android 5.0-7.0 signed with v1, and v2/v3 scheme is also vulnerable.

MANIFEST ANALYSIS

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

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable unpatched Android version Android 6.0-6.0.1, [minSdk=23]	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	Activity (com.imprivata.imprivataid.ui.activities.ftux.PreIntroActivity) 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.
3	Broadcast Receiver (com.imprivata.imprivataid.bl.receivers.UpdateReceiver) 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.
4	Broadcast Receiver (com.imprivata.imprivataid.bl.receivers.BootReceiver) 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.
5	Service (com.imprivata.imprivataid.common.cts.RemoveNotificationsService) 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.
6	Service (com.imprivata.imprivataid.bl.IidForegroundService) 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.
7	Activity (com.imprivata.imprivataid.ui.activities.MultipleTokenActivity) 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.
8	Activity (com.imprivata.imprivataid.ui.activities.ftux.IntroActivity) 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
9	Activity (com.imprivata.imprivataid.ui.activities.GettingYourTokenActivity) 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.
10	Activity (com.imprivata.imprivataid.ui.activities.SingleTokenActivity) 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.
11	Activity (com.imprivata.imprivataid.ui.activities.SettingsActivity) 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.
12	Activity (com.imprivata.epcs_mobile.ui.EpcsActivity) 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.
13	Activity (com.imprivata.facial_biometric.ui.LivenessActivity) 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.
14	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.

NO	ISSUE	SEVERITY	DESCRIPTION
15	Broadcast Receiver (androidx.profileinstaller.ProfileInstallReceiver) 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.

</> CODE ANALYSIS

HIGH: **0** | WARNING: **6** | INFO: **1** | SECURE: **1** | SUPPRESSED: **0**

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/aware/face_liveness/api/FaceLiveness.java com/aware/face_liveness/component/Utility.java com/aware/face_liveness/model/FaceCaptureModel.java com/aware/security/SecurityInterface.java com/fasterxml/jackson/core/util/VersionUtil.java com/fasterxml/jackson/databind/deser/BasicDeserializerFactory.java com/imprivata/applexJsEngine/ApplexSamlAuthenticator.java com/imprivata/applexJsEngine/WebViewClient.java com/imprivata/appstorage/AppStorage.java com/imprivata/appstorage/DatabaseHelper.java com/imprivata/appstorage/dao/CertificateDAO.java com/imprivata/appstorage/dao/EpcsBundleDAO.java com/imprivata/appstorage/dao/TokensDAO.java com/imprivata/appstorage/migration/DatabaseMigration.java com/imprivata/appstorage/migration/securitymigr

NO	ISSUE	SEVERITY	STANDARDS	FILES
				ation/DatabaseSecurityMigration.java com/imprivata/appstorage/models/BaseToken.java com/imprivata/cloud/controller/CloudTokenController.java com/imprivata/cloud/controller/FaceLivenessController.java com/imprivata/cloud/controller/S3BucketController$saveJSToFile$2.java com/imprivata/cloud/controller/S3BucketController.java com/imprivata/cloud/interceptor/AppLoggingInterceptor.java com/imprivata/epcs_mobile/controller/EpcsBundleController.java com/imprivata/epcs_mobile/ui/AuthPresenter$auth$1.java com/imprivata/epcs_mobile/ui/AuthPresenter.java com/imprivata/epcs_mobile/ui/EpcsActivity.java com/imprivata/facial_biometric/ui/LivenessActivity.java com/imprivata/facial_biometric/ui/LivenessFeedbackView.java com/imprivata/facial_biometric/ui/LivenessFragment.java com/imprivata/facial_biometric/ui/LivenessPresenter$getBioOperationStatus$1.java com/imprivata/facial_biometric/ui/LivenessPresenter$getBioOperationStatus$2.java com/imprivata/facial_biometric/ui/LivenessPresenter$waitBioOperationFinish$handleContinue$1.java com/imprivata/facial_biometric/ui/LivenessPresenter.java com/imprivata/imprivataid/TheApp.java com/imprivata/imprivataid/bl/BusinessLayerFacade.java com/imprivata/imprivataid/bl/BusinessLayerManager.java com/imprivata/imprivataid/bl/ConnectivityManager.java com/imprivata/imprivataid/bl/IidForegroundService.java com/imprivata/imprivataid/bl/NotificationActionSe

NO	ISSUE	SEVERITY	STANDARDS	FILES
1	[The App logs information. Sensitive information should never be logged.]	info	CWE: CWE-532: Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	com/imprivata/imprivataid/bl/NotificationActionService.java com/imprivata/imprivataid/bl/ble/Chunker.java com/imprivata/imprivataid/bl/ble/Dechunker.java com/imprivata/imprivataid/bl/ble/IidBleAdvertiser.java com/imprivata/imprivataid/bl/ble/IidBleCommunication.java com/imprivata/imprivataid/bl/ble/IidBleManager.java com/imprivata/imprivataid/bl/core/TokenManager.java com/imprivata/imprivataid/bl/core/messages/BinaryUtils.java com/imprivata/imprivataid/bl/core/messages/DeviceDataManager.java com/imprivata/imprivataid/bl/core/messages/deserializers/MessageParser.java com/imprivata/imprivataid/bl/features/BaseBleFeature.java com/imprivata/imprivataid/bl/features/BaseFeature.java com/imprivata/imprivataid/bl/features/FeaturesManager.java com/imprivata/imprivataid/bl/features/NotificationsFeature.java com/imprivata/imprivataid/bl/notifications/FaceBioNotify.java com/imprivata/imprivataid/bl/notifications/IidCloudMessagesManager.java com/imprivata/imprivataid/bl/notifications/MfaFatigueNotify.java com/imprivata/imprivataid/bl/notifications/Notify.java com/imprivata/imprivataid/bl/notifications/notificationData/NotificationDataFactory.java com/imprivata/imprivataid/bl/receivers/BluetoothReceiver.java com/imprivata/imprivataid/bl/receivers/BootReceiver.java com/imprivata/imprivataid/bl/receivers/UpdateReceiver.java com/imprivata/imprivataid/cl/RequestFactory.java com/imprivata/imprivataid/cl/asynctasks/Approve

NO	ISSUE	SEVERITY	STANDARDS	FILES
				DenyAsyncTask.java com/imprivata/imprivataid/cl/asynctasks/BaseAsyncTask.java com/imprivata/imprivataid/cl/asynctasks/BaseTokenAsyncTask.java com/imprivata/imprivataid/cl/asynctasks/CancelPushAsyncTask.java com/imprivata/imprivataid/cl/asynctasks/DataPushResponseAsyncTask.java com/imprivata/imprivataid/cl/asynctasks/GetDevicesAsyncTask.java com/imprivata/imprivataid/cl/asynctasks/HealthCheckAsyncTask.java com/imprivata/imprivataid/cl/asynctasks/LogAsyncTask.java com/imprivata/imprivataid/cl/asynctasks/QueryPendingPushAsyncTask.java com/imprivata/imprivataid/cl/asynctasks/TokenProvisionAsyncTask.java com/imprivata/imprivataid/cl/asynctasks/TokenUpdateAsyncTask.java com/imprivata/imprivataid/cl/asynctasks/ValidateIMSYTokenAsyncTask.java com/imprivata/imprivataid/cl/requestdata/MfaApproveDenyRequestData.java com/imprivata/imprivataid/cl/requests/Request.java com/imprivata/imprivataid/cl/responses/HttpResponseCode.java com/imprivata/imprivataid/common/configuration/RemoteConfig.java com/imprivata/imprivataid/common/cts/IidFcmListenerService.java com/imprivata/imprivataid/common/security/CryptoManager.java com/imprivata/imprivataid/common/security/ssl/implementation/CryptoApiOpenSSLImpl.java com/imprivata/imprivataid/common/security/ssl/implementation/CryptoApiOpenSSLWrapper.java com/imprivata/imprivataid/sensors/domain/StepCounterController.java com/imprivata/imprivataid/ui/activities/BaseActivity.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/imprivata/imprivataid/ui/activities/BaseTokenActivity.java com/imprivata/imprivataid/ui/activities/GettingYourTokenActivity.java com/imprivata/imprivataid/ui/activities/MultipleTokenActivity.java com/imprivata/imprivataid/ui/activities/SettingsActivity.java com/imprivata/imprivataid/ui/activities/SplashActivity.java com/imprivata/imprivataid/ui/activities/ftux/IntroActivity.java com/imprivata/imprivataid/ui/activities/ftux/PreIntroActivity.java com/imprivata/imprivataid/ui/fragment/ImprTokenFragment.java com/imprivata/imprivataid/ui/fragment/ImsyTokenFragment.java com/imprivata/imprivataid/utils/CrashHandler.java com/imprivata/logger/Log.java com/imprivata/logger/LogFileManager.java com/j256/ormlite/android/AndroidLog.java com/j256/ormlite/android/apptools/OrmLiteConfigUtil.java com/j256/ormlite/logger/LocalLog.java com/raizlabs/jonathan_cole/imprivatatestbed/manager/ActivityDetectorManager.java com/raizlabs/jonathan_cole/imprivatatestbed/manager/TTSManager.java com/raizlabs/jonathan_cole/imprivatatestbed/ui/ActivityRecognitionAdapter.java com/symc/mvip/Credential.java com/symc/mvip/CredentialAuthSigning.java com/symc/mvip/CredentialSigning.java com/symc/mvip/net/c.java com/symc/mvip/net/d.java com/symc/mvip/vault/Vault.java com/symc/mvip/vault/c.java junit/runner/BaseTestRunner.java junit/runner/Version.java junit/textui/TestRunner.java zz/zz/yy/yy/e.java zz/zz/yy/yy/f.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				zz/zz/yy/yy/g.java zz/zz/yy/yy/i.java zz/zz/yy/zz/c.java zz/zz/yy/zz/m.java zz/zz/zz/yy/a.java zz/zz/zz/yy/d.java zz/zz/zz/yy/e.java zz/zz/zz/yy/f.java zz/zz/zz/yy/g.java
2	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/imprivata/appstorage/models/IMSYToken.java com/imprivata/imprivataid/bl/notifications/Notify.java com/imprivata/imprivataid/bl/notifications/notificationData/SymantecNotificationData.java com/imprivata/imprivataid/common/security/CryptoManager.java com/raizlabs/jonathan_cole/imprivatatestbed/manager/BroadcastManager.java io/jsonwebtoken/JwsHeader.java org/jsoup/helper/W3CDom.java org/jsoup/nodes/Comment.java org/jsoup/nodes/DocumentType.java
3	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/imprivata/applexJsEngine/JsEngine.java
4	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	com/imprivata/imprivataid/BuildConfig.java
5	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/imprivata/common/ramStorage/RamStorage.java com/symc/mvip/net/GetServerTimePDU.java com/symc/mvip/net/b.java org/jsoup/helper/DataUtil.java org/junit/runner/manipulation/Ordering.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
6	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/imprivata/appstorage/migration/DatabaseMigration.java com/j256/ormlite/android/AndroidCompiledStatement.java com/j256/ormlite/android/AndroidDatabaseConnection.java com/j256/ormlite/android/compat/ApiCompatibility.java com/j256/ormlite/android/compat/BasicApiCompatibility.java com/j256/ormlite/android/compat/JellyBeanApiCompatibility.java
7	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	org/junit/rules/TemporaryFolder.java
8	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-4	com/imprivata/cloud/ApiController.java com/symc/mvip/ProvisionerSigning.java com/symc/mvip/net/a.java

SHARED LIBRARY BINARY ANALYSIS

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
1	arm64-v8a/libaw_preface_jni.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__strlen_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
2	arm64-v8a/libc++_shared.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
3	arm64-v8a/libaw_video.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__strlen_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
4	arm64-v8a/libaw_video_jni.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__strlen_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
5	arm64-v8a/libknomi.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__memmove_chk', '__strchr_chk', '__memset_chk', '__memcpy_chk', '__vsnprintf_chk', '__strcat_chk', '__read_chk', '__strlen_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
6	arm64-v8a/libopensslwrapper.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
7	arm64-v8a/libssl.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	False high This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. Not applicable for Dart/Flutter libraries unless Dart FFI is used.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
8	arm64-v8a/libcrypto.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	False high This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. Not applicable for Dart/Flutter libraries unless Dart FFI is used.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__FD_SET_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
9	arm64-v8a/libaw_preface.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__strlen_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
10	armeabi-v7a/libaw_preface_jni.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
11	armeabi-v7a/libc++_shared.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
12	armeabi-v7a/libaw_video.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
13	armeabi-v7a/libaw_video_jni.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
14	armeabi-v7a/libknomi.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__strlen_chk', '__strchr_chk', '__memcpy_chk', '__strcat_chk', '__memset_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
15	armeabi-v7a/libopensslwrapper.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
16	armeabi-v7a/libssl.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	False high This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. Not applicable for Dart/Flutter libraries unless Dart FFI is used.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
17	armeabi-v7a/libcrypto.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	False high This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. Not applicable for Dart/Flutter libraries unless Dart FFI is used.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__FD_SET_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
18	armeabi-v7a/libaw_preface.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
19	arm64-v8a/libaw_preface_jni.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__strlen_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
20	arm64-v8a/libc++_shared.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
21	arm64-v8a/libaw_video.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__strlen_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
22	arm64-v8a/libaw_video_jni.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__strlen_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
23	arm64-v8a/libknomi.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__memmove_chk', '__strchr_chk', '__memset_chk', '__memcpy_chk', '__vsnprintf_chk', '__strcat_chk', '__read_chk', '__strlen_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
24	arm64-v8a/libopensslwrapper.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
25	arm64-v8a/libssl.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	False high This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. Not applicable for Dart/Flutter libraries unless Dart FFI is used.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
26	arm64-v8a/libcrypto.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	False high This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. Not applicable for Dart/Flutter libraries unless Dart FFI is used.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__FD_SET_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
27	arm64-v8a/libaw_preface.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__strlen_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
28	armeabi-v7a/libaw_preface_jni.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
29	armeabi-v7a/libc++_shared.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
30	armeabi-v7a/libaw_video.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
31	armeabi-v7a/libaw_video_jni.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
32	armeabi-v7a/libknomi.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__strlen_chk', '__strchr_chk', '__memcpy_chk', '__strcat_chk', '__memset_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
33	armeabi-v7a/libopensslwrapper.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
34	armeabi-v7a/libssl.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	False high This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. Not applicable for Dart/Flutter libraries unless Dart FFI is used.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
35	armeabi-v7a/libcrypto.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	False high This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. Not applicable for Dart/Flutter libraries unless Dart FFI is used.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	True info The binary has the following fortified functions: ['__FD_SET_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
36	armeabi-v7a/libaw_preface.so	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	Dynamic Shared Object (DSO) info The shared object is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	Full RELRO info This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire GOT (.got and .got.plt both) is marked as read-only.	None info The binary does not have run-time search path or RPATH set.	None info The binary does not have RUNPATH set.	False warning The binary does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions. This check is not applicable for Dart/Flutter libraries.	True info Symbols are stripped.

NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

BEHAVIOUR ANALYSIS

RULE ID	BEHAVIOUR	LABEL	FILES
00014	Read file into a stream and put it into a JSON object	file	com/symc/mvip/vault/Vault.java
00013	Read file and put it into a stream	file	com/fasterxml/jackson/core/JsonFactory.java com/fasterxml/jackson/databind/ObjectReader.java com/imprivata/imprivataid/common/security/CryptoManager.java com/j256/ormlite/android/apptools/OrmLiteSqliteOpenHelper.java com/symc/mvip/vault/Vault.java junit/runner/BaseTestRunner.java okio/Okio__JvmOkioKt.java org/jsoup/helper/DataUtil.java org/junit/experimental/max/MaxHistory.java zz/zz/zz/yy/g.java
00022	Open a file from given absolute path of the file	file	com/aware/face_liveness/model/FaceCaptureModel.java com/fasterxml/jackson/databind/ser/std/FileSerializer.java com/imprivata/cloud/controller/S3BucketController.java com/imprivata/epcs_mobile/controller/EpcsBundleController.java com/j256/ormlite/android/apptools/OrmLiteConfigUtil.java org/jsoup/Jsoup.java
00112	Get the date of the calendar event	collection calendar	com/imprivata/imprivataid/bl/ble/IidBleCommunication.java
00089	Connect to a URL and receive input stream from the server	command network	com/imprivata/imprivataid/cl/requests/Request.java
00109	Connect to a URL and get the response code	network command	com/imprivata/imprivataid/cl/requests/Request.java
00033	Query the IMEI number	collection	com/symc/mvip/vault/c.java

RULE ID	BEHAVIOUR	LABEL	FILES
00183	Get current camera parameters and change the setting.	camera	zz/zz/zz/yy/a.java
00063	Implicit intent(view a web page, make a phone call, etc.)	control	com/imprivata/epcs_mobile/ui/EpcsActivity.java com/imprivata/imprivataid/ui/activities/BaseActivity.java com/imprivata/imprivataid/ui/activities/SettingsActivity.java
00051	Implicit intent(view a web page, make a phone call, etc.) via setData	control	com/imprivata/imprivataid/ui/activities/BaseActivity.java com/imprivata/imprivataid/ui/activities/SettingsActivity.java
00204	Get the default ringtone	collection	com/imprivata/imprivataid/bl/notifications/Notify.java

FIREBASE DATABASES ANALYSIS

TITLE	SEVERITY	DESCRIPTION
App talks to a Firebase database	info	The app talks to Firebase database at https://imprivata-id.firebaseio.com
Firebase Remote Config disabled	secure	Firebase Remote Config is disabled for https://firebaseremoteconfig.googleapis.com/v1/projects/654347211457/namespaces/firebase:fetch?key=AIzaSyDAO__0ElZ44a_L5xi78cGEYxB4WLxb8uE. This is indicated by the response: {'state': 'NO_TEMPLATE'}

ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	7/25	android.permission.ACCESS_NETWORK_STATE, android.permission.INTERNET, android.permission.VIBRATE, android.permission.SYSTEM_ALERT_WINDOW, android.permission.RECEIVE_BOOT_COMPLETED, android.permission.WAKE_LOCK, android.permission.CAMERA
Other Common Permissions	7/44	android.permission.BLUETOOTH, android.permission.BLUETOOTH_ADMIN, android.permission.FOREGROUND_SERVICE, android.permission.ACTIVITY_RECOGNITION, com.google.android.gms.permission.ACTIVITY_RECOGNITION, com.google.android.c2dm.permission.RECEIVE, 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

DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION

DOMAIN	STATUS	GEOLOCATION
devapi.cts.imprivata.com	ok	**IP:** 34.226.130.248 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
imprivata-id.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
s3.amazonaws.com	ok	**IP:** 52.217.112.152 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
ctlful.imprivata.com	ok	**IP:** 38.111.62.39 **Country:** United States of America **Region:** Massachusetts **City:** Boston **Latitude:** 42.358429 **Longitude:** -71.059769 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
www.openssl.org	ok	**IP:** 34.49.79.89 **Country:** United States of America **Region:** Texas **City:** Houston **Latitude:** 29.941401 **Longitude:** -95.344498 **View:** Google Map
www.imprivata.com	ok	**IP:** 151.101.194.216 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
storage.googleapis.com	ok	**IP:** 142.250.68.27 **Country:** United States of America **Region:** California **City:** Mountain View **Latitude:** 37.405991 **Longitude:** -122.078514 **View:** Google Map

EMAILS

EMAIL	FILE
user@test.com	com/imprivata/applexJsEngine/MockedJsEngine.java

TRACKERS

TRACKER	CATEGORIES	URL
Google Firebase Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/49

HARDCODED SECRETS

POSSIBLE SECRETS
"approve_auth" : "APPROVE"
"firebase_database_url" : "https://imprivata-id.firebaseio.com"
"google_crash_reporting_api_key" : "AIzaSyDAO__0ElZ44a_L5xi78cGEYxB4WLxb8uE"
"google_api_key" : "AIzaSyDAO__0ElZ44a_L5xi78cGEYxB4WLxb8uE"
"deny_auth" : "DENY"
"mfa_auth_yes" : "Yes"
"mfa_auth_no" : "No"
"close_auth" : "Close"

POSSIBLE SECRETS
FFFFFFFFFFFFFFFFC90FDAA22168C234C4C6628B80DC1CD129024E088A67CC74020BBEA63B139B22514A08798E3404DDEF9519B3CD3A431B302B0A6DF25F14374FE1356D6D51C245E485B576625E7EC6F44C42E9A637ED6B0BFF5CB6F406B7EDEE386BFB5A899FA5AE9F24117C4B1FE649286651ECE45B3DC2007CB8A163BF0598DA48361C55D39A69163FA8FD24CF5F83655D23DCA3AD961C62F356208552BB9ED529077096966D670C354E4ABC9804F1746C08CA18217C32905E462E36CE3BE39E772C180E86039B2783A2EC07A28FB5C55DF06F4C52C9DE2BCBF6955817183995497CEA956AE515D2261898FA051015728E5A8AAAC42DAD33170D04507A33A85521ABDF1CBA64ECFB850458DBEF0A8AEA71575D060C7DB3970F85A6E1E4C7ABF5AE8CDB0933D71E8C94E04A25619DCEE3D2261AD2EE6BF12FFA06D98A0864D87602733EC86A64521F2B18177B200CBBE117577A615D6C770988C0BAD946E208E24FA074E5AB3143DB5BFCE0FD108E4B82D120A93AD2CAFFFFFFFFFFFFFFFF
DB7C2ABF62E35E668076BEAD2088
FFFFFFFFFFFFFFFFC90FDAA22168C234C4C6628B80DC1CD129024E088A67CC74020BBEA63B139B22514A08798E3404DDEF9519B3CD3A431B302B0A6DF25F14374FE1356D6D51C245E485B576625E7EC6F44C42E9A637ED6B0BFF5CB6F406B7EDEE386BFB5A899FA5AE9F24117C4B1FE649286651ECE45B3DC2007CB8A163BF0598DA48361C55D39A69163FA8FD24CF5F83655D23DCA3AD961C62F356208552BB9ED529077096966D670C354E4ABC9804F1746C08CA18217C32905E462E36CE3BE39E772C180E86039B2783A2EC07A28FB5C55DF06F4C52C9DE2BCBF6955817183995497CEA956AE515D2261898FA051015728E5A8AAAC42DAD33170D04507A33A85521ABDF1CBA64ECFB850458DBEF0A8AEA71575D060C7DB3970F85A6E1E4C7ABF5AE8CDB0933D71E8C94E04A25619DCEE3D2261AD2EE6BF12FFA06D98A0864D87602733EC86A64521F2B18177B200CBBE117577A615D6C770988C0BAD946E208E24FA074E5AB3143DB5BFCE0FD108E4B82D120A92108011A723C12A787E6D788719A10BDBA5B2699C327186AF4E23C1A946834B6150BDA2583E9CA2AD44CE8DBBBC2DB04DE8EF92E8EFC141FBECAA6287C59474E6BC05D99B2964FA090C3A2233BA186515BE7ED1F612970CEE2D7AFB81BDD762170481CD0069127D5B05AA993B4EA988D8FDDC186FFB7DC90A6C08F4DF435C93402849236C3FAB4D27C7026C1D4DCB2602646DEC9751E763DBA37BDF8FF9406AD9E530EE5DB382F413001AEB06A53ED9027D831179727B0865A8918DA3EDBEBCF9B14ED44CE6CBACED4BB1BDB7F1447E6CC254B332051512BD7AF426FB8F401378CD2BF5983CA01C64B92ECF032EA15D1721D03F482D7CE6E74FEF6D55E702F46980C82B5A84031900B1C9E59E7C97FBEC7E8F323A97A7E36CC88BE0F1D45B7FF585AC54BD407B22B4154AACC8F6D7EBF48E1D814CC5ED20F8037E0A79715EEF29BE32806A1D58BB7C5DA76F550AA3D8A1FBFF0EB19CCB1A313D55CDA56C9EC2EF29632387FE8D76E3C0468043E8F663F4860EE12BF2D5B0B7474D6E694F91E6DCC4024FFFFFFFFFFFFFFFF
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POSSIBLE SECRETS
0620048D28BCBD03B6249C99182B7C8CD19700C362C46A01
2580F63CCFE44138870713B1A92369E33E2135D266DBB372386C400B
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2866537B676752636A68F56554E12640276B649EF7526267
298188939177312407334712732403147699272405508123836956891464952616045659902 47

POSSIBLE SECRETS
00E4E6DB2995065C407D9D39B8D0967B96704BA8E9C90B
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00FC1217D4320A90452C760A58EDCD30C8DD069B3C34453837A34ED50CB54917E1C2112D84D164F444F8F74786046A
10686D41FF744D4449FCCF6D8EEA03102E6812C93A9D60B978B702CF156D814EF

POSSIBLE SECRETS
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POSSIBLE SECRETS
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POSSIBLE SECRETS
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POSSIBLE SECRETS
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POSSIBLE SECRETS
c39c6c3b3a36d7701b9c71a1f5804ae5d0003f4
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PLAYSTORE INFORMATION

Title: Imprivata ID

Score: 3.13 **Installs:** 100,000+ **Price:** 0 **Android Version Support:** **Category:** Medical **Play Store URL:** com.imprivata.imprivataid

Developer Details: Imprivata, Inc, Imprivata,+Inc, None, http://www.imprivata.com/imprivata-confirm-id, mobileapp@imprivata.com,

Release Date: May 27, 2016 **Privacy Policy:** Privacy link

Description:

Imprivata ID is a secure authentication application that helps improve clinical workflows for medical professionals for electronic prescribing of controlled substances (EPCS), remote network access, and others. For EPCS, Imprivata ID enables Hands Free Authentication, a breakthrough solution that delivers exceptional speed, security, and convenience for providers while meeting DEA two-factor authentication requirements for EPCS. Instead of typing a manual token code, Hands Free Authentication wirelessly retrieves and verifies a one-time password from the Imprivata ID application on the user's mobile device, even if it is locked and/or in the user's pocket, which delivers unparalleled speed and convenience with minimal impact to clinical workflows. For remote network access, Imprivata ID enables fast, convenient push notifications. Users receive a notification on their mobile phone asking them to verify their identity. The user simply swipes the notification from the lock screen of their device and taps "Approve," and the second factor of authentication is complete. Imprivata ID uses Foreground Service for communication between the app and a Bluetooth dongle connected to a Windows PC, as Imprivata ID acts as a key for user authentications in Windows applications when the Android device is in close proximity to the PC. Please note: To use Imprivata ID, the healthcare provider organization needs to purchase a license for Imprivata Confirm ID (as well as a license for Hands Free Authentication if using that feature). Visit https://www.imprivata.com/imprivata-confirm-id for more information.

SCAN LOGS

Timestamp	Event	Error
2025-08-30 22:10:27	Generating Hashes	OK

2025-08-30 22:10:27	Extracting APK	OK
2025-08-30 22:10:27	Unzipping	OK
2025-08-30 22:10:27	Parsing APK with androguard	OK
2025-08-30 22:10:27	Extracting APK features using aapt/aapt2	OK
2025-08-30 22:10:28	Getting Hardcoded Certificates/Keystores	OK
2025-08-30 22:10:30	Parsing AndroidManifest.xml	OK
2025-08-30 22:10:30	Extracting Manifest Data	OK
2025-08-30 22:10:30	Manifest Analysis Started	OK
2025-08-30 22:10:31	Performing Static Analysis on: Imprivata ID (com.imprivata.imprivataid)	OK
2025-08-30 22:10:31	Fetching Details from Play Store: com.imprivata.imprivataid	OK
2025-08-30 22:10:32	Checking for Malware Permissions	OK

2025-08-30 22:10:32	Fetching icon path	OK
2025-08-30 22:10:32	Library Binary Analysis Started	OK
2025-08-30 22:10:32	Analyzing lib/arm64-v8a/libaw_preface_jni.so	OK
2025-08-30 22:10:32	Analyzing lib/arm64-v8a/libc++_shared.so	OK
2025-08-30 22:10:32	Analyzing lib/arm64-v8a/libaw_video.so	OK
2025-08-30 22:10:32	Analyzing lib/arm64-v8a/libaw_video_jni.so	OK
2025-08-30 22:10:32	Analyzing lib/arm64-v8a/libknomi.so	OK
2025-08-30 22:10:32	Analyzing lib/arm64-v8a/libopensslwrapper.so	OK
2025-08-30 22:10:32	Analyzing lib/arm64-v8a/libssl.so	OK
2025-08-30 22:10:32	Analyzing lib/arm64-v8a/libcrypto.so	OK
2025-08-30 22:10:32	Analyzing lib/arm64-v8a/libaw_preface.so	OK

2025-08-30 22:10:32	Analyzing lib/armeabi-v7a/libaw_preface_jni.so	OK
2025-08-30 22:10:32	Analyzing lib/armeabi-v7a/libc++_shared.so	OK
2025-08-30 22:10:32	Analyzing lib/armeabi-v7a/libaw_video.so	OK
2025-08-30 22:10:32	Analyzing lib/armeabi-v7a/libaw_video_jni.so	OK
2025-08-30 22:10:32	Analyzing lib/armeabi-v7a/libknomi.so	OK
2025-08-30 22:10:32	Analyzing lib/armeabi-v7a/libopensslwrapper.so	OK
2025-08-30 22:10:32	Analyzing lib/armeabi-v7a/libssl.so	OK
2025-08-30 22:10:32	Analyzing lib/armeabi-v7a/libcrypto.so	OK
2025-08-30 22:10:32	Analyzing lib/armeabi-v7a/libaw_preface.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/arm64-v8a/libaw_preface_jni.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/arm64-v8a/libc++_shared.so	OK

2025-08-30 22:10:32	Analyzing apktool_out/lib/arm64-v8a/libaw_video.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/arm64-v8a/libaw_video_jni.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/arm64-v8a/libknomi.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/arm64-v8a/libopensslwrapper.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/arm64-v8a/libssl.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/arm64-v8a/libcrypto.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/arm64-v8a/libaw_preface.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/armeabi-v7a/libaw_preface_jni.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/armeabi-v7a/libc++_shared.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/armeabi-v7a/libaw_video.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/armeabi-v7a/libaw_video_jni.so	OK

2025-08-30 22:10:32	Analyzing apktool_out/lib/armeabi-v7a/libknomi.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/armeabi-v7a/libopensslwrapper.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/armeabi-v7a/libssl.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/armeabi-v7a/libcrypto.so	OK
2025-08-30 22:10:32	Analyzing apktool_out/lib/armeabi-v7a/libaw_preface.so	OK
2025-08-30 22:10:33	Reading Code Signing Certificate	OK
2025-08-30 22:10:33	Running APKiD 2.1.5	OK
2025-08-30 22:10:40	Detecting Trackers	OK
2025-08-30 22:10:43	Decompiling APK to Java with JADX	OK
2025-08-30 22:11:03	Converting DEX to Smali	OK
2025-08-30 22:11:03	Code Analysis Started on - java_source	OK

2025-08-30 22:11:05	Android SBOM Analysis Completed	OK
2025-08-30 22:11:14	Android SAST Completed	OK
2025-08-30 22:11:14	Android API Analysis Started	OK
2025-08-30 22:11:21	Android API Analysis Completed	OK
2025-08-30 22:11:21	Android Permission Mapping Started	OK
2025-08-30 22:11:27	Android Permission Mapping Completed	OK
2025-08-30 22:11:28	Android Behaviour Analysis Started	OK
2025-08-30 22:11:35	Android Behaviour Analysis Completed	OK
2025-08-30 22:11:35	Extracting Emails and URLs from Source Code	OK
2025-08-30 22:11:37	Email and URL Extraction Completed	OK
2025-08-30 22:11:37	Extracting String data from APK	OK

2025-08-30 22:11:37	Extracting String data from SO	OK
2025-08-30 22:11:38	Extracting String data from Code	OK
2025-08-30 22:11:38	Extracting String values and entropies from Code	OK
2025-08-30 22:11:41	Performing Malware check on extracted domains	OK
2025-08-30 22:11:42	Saving to Database	OK

Report Generated by - MobSF v4.4.0

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.