MOBSF

ANDROID STATIC ANALYSIS REPORT

myABL (5.0.5)

File Name:	ABL.apk
Package Name:	com.ofss.digx.mobile.android.allied
Scan Date:	Oct. 19, 2024, 12:49 p.m.
App Security Score:	46/100 (MEDIUM RISK)
Grade:	B
Trackers Detection:	7/432

FINDINGS SEVERITY

HIGH	MEDIUM	INFO	SECURE	HOTSPOT
7	29	2	3	2

FILE INFORMATION

File Name: ABL.apk
Size: 285.3MB
MD5: 5d46a488e2bd4cb1cb1aaf4436d58b79
SHA1: edd72e61e9b9b10a7c6727eea610fa725c314f6e
SHA256: bb4927061b19dedde85504f5e31d01a988a3cd00af11f000674fff5875dc14c0

APP INFORMATION

App Name: myABL
Package Name: com.ofss.digx.mobile.android.allied
Main Activity: com.ofss.digx.mobile.android.allied.SplashActivity
Target SDK: 34
Min SDK: 24
Max SDK:
Android Version Name: 5.0.5
Android Version Code: 30056

APP COMPONENTS

Activities: 46
Services: 19
Receivers: 16
Providers: 10
Exported Activities: 9
Exported Services: 4
Exported Receivers: 6
Exported Providers: 0

CERTIFICATE INFORMATION

Binary is signed
v1 signature: False
v2 signature: True
v3 signature: True
v4 signature: False
X.509 Subject: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android
Signature Algorithm: rsassa_pkcs1v15
Valid From: 2017-11-17 07:20:16+00:00
Valid To: 2047-11-17 07:20:16+00:00
Issuer: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android
Serial Number: 0x695348de3bd2dfae52250c5a8046348664a79420
Hash Algorithm: sha256
md5: 7fcb3474100b451871d248771db02d1e
sha1: ed21a4496269f1a40ab5bac753667497cc76310f
sha256: 81c224aa514f48f478d0700221d0c7e7a4a4190e89021dc564f3a098dea8b097
sha512: 1dd98c94b3496f17256a455819ea4954bb2db64b8937c3172676cea808b122170298dbf732a3c301fd5428f4cd16160474c369075c86373ab1755b0077293745
PublicKey Algorithm: rsa
Bit Size: 4096
Fingerprint: 0da1367ec80a7d1af963c073a85a54142b97d0f353fa826a9a48fe8a7da93ee6
Found 1 unique certificates

APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.READ_EXTERNAL_STORAGE	dangerous	read external storage contents	Allows an application to read from external storage.
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.READ_MEDIA_IMAGES	dangerous	allows reading image files from external storage.	Allows an application to read image files from external storage.
android.permission.READ_MEDIA_VIDEO	dangerous	allows reading video files from external storage.	Allows an application to read video files from external storage.
android.permission.READ_MEDIA_AUDIO	dangerous	allows reading audio files from external storage.	Allows an application to read audio files from external storage.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.
android.permission.POST_NOTIFICATIONS	dangerous	allows an app to post notifications.	Allows an app to post notifications

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.READ_PHONE_STATE	dangerous	read phone state and identity	Allows the application to access the phone features of the device. An application with this permission can determine the phone number and serial number of this phone, whether a call is active, the number that call is connected to and so on.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.READ_PHONE_NUMBERS	dangerous	allows reading of the device's phone number(s).	Allows read access to the device's phone number(s). This is a subset of the capabilities granted by READ_PHONE_STATE but is exposed to instant applications.
android.permission.VIBRATE	normal	control vibrator	Allows the application to control the vibrator.
android.permission.FLASHLIGHT	normal	control flashlight	Allows the application to control the flashlight.
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.samsung.android.providers.context.permission.WRITE_USE_APP_FEATURE_SURVEY	unknown	Unknown permission	Unknown permission from android reference

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.READ_CONTACTS	dangerous	read contact data	Allows an application to read all of the contact (address) data stored on your phone. Malicious applications can use this to send your data to other people.
android.permission.NFC	normal	control Near-Field Communication	Allows an application to communicate with Near-Field Communication (NFC) tags, cards and readers.
android.permission.USE_BIOMETRIC	normal	allows use of device-supported biometric modalities.	Allows an app to use device supported biometric modalities.
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.
com.google.android.c2dm.permission.RECEIVE	normal	recieve push notifications	Allows an application to receive push notifications from cloud.
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.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.ACCESS_FINE_LOCATION	dangerous	fine (GPS) location	Access fine location sources, such as the Global Positioning System on the phone, where available. Malicious applications can use this to determine where you are and may consume additional battery power.
android.permission.ACCESS_COARSE_LOCATION	dangerous	coarse (network-based) location	Access coarse location sources, such as the mobile network database, to determine an approximate phone location, where available. Malicious applications can use this to determine approximately where you are.
android.permission.RECORD_AUDIO	dangerous	record audio	Allows application to access the audio record path.
android.permission.RECEIVE_BOOT_COMPLETED	normal	automatically start at boot	Allows an application to start itself as soon as the system has finished booting. This can make it take longer to start the phone and allow the application to slow down the overall phone by always running.
android.permission.FOREGROUND_SERVICE	normal	enables regular apps to use Service.startForeground.	Allows a regular application to use Service.startForeground.
com.ofss.digx.mobile.android.allied.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference

PERMISSION	STATUS	INFO	DESCRIPTION
com.google.android.gms.permission.AD_ID	normal	application shows advertisements	This app uses a Google advertising ID and can possibly serve advertisements.
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.

APKID ANALYSIS

FILE	DETAILS

<table>
<tr><th>FILE</th><th>DETAILS</th></tr>
<tr><td>/home/mobsf/.MobSF/uploads/5d46a488e2bd4cb1cb1aaf4436d58b79/5d46a488e2bd4cb1cb1aaf4436d58b79.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</td></tr>
<tr><td>Compiler</td><td>r8</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.MODEL check
Build.MANUFACTURER check
Build.PRODUCT check
possible Build.SERIAL check
Build.TAGS check</td></tr>
<tr><td>Obfuscator</td><td>unreadable field names
unreadable method names</td></tr>
<tr><td>Compiler</td><td>r8 without marker (suspicious)</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.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 VM check</td></tr>
<tr><td>Compiler</td><td>r8 without marker (suspicious)</td></tr>
</table>
</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
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>r8 without marker (suspicious)</td></tr>
</table>
</td></tr>
</table>

FILE	DETAILS
classes5.dex	<table><tr><th>FINDINGS</th><th>DETAILS</th></tr><tr><td>Obfuscator</td><td>unreadable field names unreadable method names</td></tr><tr><td>Compiler</td><td>r8 without marker (suspicious)</td></tr></table>

NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

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: 19 | 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	Activity (com.unikrew.faceoff.ABLPlugin.Liveness.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.
3	Activity (info.paysyslabs.hce.sdk.activity.TapPayActivity) 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.
4	Activity (info.paysyslabs.hce.sdk.activity.SdkActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
5	Activity (info.paysyslabs.hce.sdk.activity.CdcvmVerificationActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
6	Service (info.paysyslabs.hce.sdk.hce.ApduService) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.BIND_NFC_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
7	Activity (com.unikrew.faceoff.ABLPlugin.DocumentVerification.DocumentVerificationActivity) 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.unikrew.faceoff.ABLPlugin.CNIC_Availability) 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.
9	Activity (com.unikrew.faceoff.ABLPlugin.ui.fingerprint.FingerPrintActivity) 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.unikrew.faceoff.ABLPlugin.ui.otp.OtpVerificationActivity) 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.unikrew.faceoff.ABLPlugin.ui.ViewFingerprintActivity) 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	Broadcast Receiver (com.ofss.digx.mobile.android.allied.MySMSBroadcastReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.gms.auth.api.phone.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
13	Broadcast Receiver (com.dengage.sdk.push.NotificationReceiver) 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.
14	Service (com.thalesgroup.gemalto.d1.d1pay.D1HCEService) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.BIND_NFC_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.
15	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.
16	Broadcast Receiver (com.learnium.RNDeviceInfo.RNDeviceReceiver) 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.

NO	ISSUE	SEVERITY	DESCRIPTION
17	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.
18	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.
19	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
20	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: **5** | WARNING: **9** | INFO: **2** | SECURE: **3** | SUPPRESSED: **0**

NO	ISSUE	SEVERITY	STANDARDS	FILES
				CustomPlugin/App.java CustomPlugin/fcm/MyFirebaseMessagingCustom.java CustomPlugin/ui/card/CardFragment.java bolts/MeasurementEvent.java com/agomezmoron/saveImageGallery/SaveImageGallery.java com/agontuk/RNFusedLocation/FusedLocationProvider.java com/agontuk/RNFusedLocation/LocationManagerProvider.java com/agontuk/RNFusedLocation/RNFusedLocationModule.java com/airbnb/android/react/maps/AirMapGradientPolyline.java com/airbnb/android/react/maps/AirMapHeatmap.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/airbnb/android/react/maps/FileUtil.java com/airbnb/lottie/LottieAnimationView.java com/airbnb/lottie/PerformanceTracker.java com/airbnb/lottie/utils/LogcatLogger.java com/bez4pieci/cookies/Cookies.java com/bumptech/glide/Glide.java com/bumptech/glide/disklrucache/DiskLruCache.java com/bumptech/glide/gifdecoder/GifHeaderParser.java com/bumptech/glide/gifdecoder/StandardGifDecoder.java com/bumptech/glide/load/data/AssetPathFetcher.java com/bumptech/glide/load/data/HttpUrlFetcher.java com/bumptech/glide/load/data/LocalUriFetcher.java com/bumptech/glide/load/data/mediastore/ThumbFetcher.java com/bumptech/glide/load/data/mediastore/ThumbnailStreamOpener.java com/bumptech/glide/load/engine/DecodeJob.java com/bumptech/glide/load/engine/DecodePath.java com/bumptech/glide/load/engine/Engine.java com/bumptech/glide/load/engine/GlideException.java com/bumptech/glide/load/engine/SourceGenerator.java com/bumptech/glide/load/engine/bitmap_recycle/LruArrayPool.java com/bumptech/glide/load/engine/bitmap_recycle/LruBitmapPool.java com/bumptech/glide/load/engine/cache/DiskLruCacheWrapper.java com/bumptech/glide/load/engine/cache/MemorySizeCalculator.java com/bumptech/glide/load/engine/executor/GlideExecutor.java com/bumptech/glide/load/engine/executor/Run

NO	ISSUE	SEVERITY	STANDARDS	FILES
				timeCompat.java com/bumptech/glide/load/engine/prefill/BitmapPreFillRunner.java com/bumptech/glide/load/model/ByteBufferEncoder.java com/bumptech/glide/load/model/ByteBufferFileLoader.java com/bumptech/glide/load/model/FileLoader.java com/bumptech/glide/load/model/ResourceLoader.java com/bumptech/glide/load/model/StreamEncoder.java com/bumptech/glide/load/resource/ImageDecoderResourceDecoder.java com/bumptech/glide/load/resource/bitmap/BitmapEncoder.java com/bumptech/glide/load/resource/bitmap/BitmapImageDecoderResourceDecoder.java com/bumptech/glide/load/resource/bitmap/DefaultImageHeaderParser.java com/bumptech/glide/load/resource/bitmap/Downsampler.java com/bumptech/glide/load/resource/bitmap/DrawableToBitmapConverter.java com/bumptech/glide/load/resource/bitmap/HardwareConfigState.java com/bumptech/glide/load/resource/bitmap/TransformationUtils.java com/bumptech/glide/load/resource/bitmap/VideoDecoder.java com/bumptech/glide/load/resource/gif/ByteBufferGifDecoder.java com/bumptech/glide/load/resource/gif/GifDrawableEncoder.java com/bumptech/glide/load/resource/gif/StreamGifDecoder.java com/bumptech/glide/manager/DefaultConnectivityMonitor.java com/bumptech/glide/manager/DefaultConnectivityMonitorFactory.java com/bumptech/glide/manager/RequestManagerFragment.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				Fragment.java com/bumptech/glide/manager/RequestManagerRetriever.java com/bumptech/glide/manager/RequestTracker.java com/bumptech/glide/manager/SupportRequestManagerFragment.java com/bumptech/glide/module/ManifestParser.java com/bumptech/glide/request/SingleRequest.java com/bumptech/glide/request/target/CustomViewTarget.java com/bumptech/glide/request/target/ViewTarget.java com/bumptech/glide/signature/ApplicationVersionSignature.java com/bumptech/glide/util/ContentLengthInputStream.java com/bumptech/glide/util/pool/FactoryPools.java com/dengage/sdk/util/DengageLogger.java com/drew/imaging/ImageMetadataReader.java com/drew/lang/CompoundException.java com/drew/tools/ExtractJpegSegmentTool.java com/drew/tools/ProcessAllImagesInFolderUtility.java com/drew/tools/ProcessUrlUtility.java com/github/dhaval2404/imagepicker/ImagePickerActivity.java com/github/dhaval2404/imagepicker/provider/CropProvider.java com/github/dhaval2404/imagepicker/util/ExifDataCopier.java com/horcrux/svg/Brush.java com/horcrux/svg/ClipPathView.java com/horcrux/svg/ImageView.java com/horcrux/svg/LinearGradientView.java com/horcrux/svg/MaskView.java com/horcrux/svg/PatternView.java com/horcrux/svg/RadialGradientView.java com/horcrux/svg/UseView.java com/horcrux/svg/VirtualView.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/horcrux/svg/VirtualView.java com/hutchind/cordova/plugins/launcher/Launcher.java com/j256/ormlite/android/AndroidLog.java com/j256/ormlite/android/apptools/OrmLiteConfigUtil.java com/j256/ormlite/logger/LocalLog.java com/learnium/RNDeviceInfo/RNDeviceModule.java com/learnium/RNDeviceInfo/RNInstallReferrerClient.java com/learnium/RNDeviceInfo/resolver/DeviceIdResolver.java com/lwansbrough/RCTCamera/MutableImage.java com/lwansbrough/RCTCamera/RCTCamera.java com/lwansbrough/RCTCamera/RCTCameraModule.java com/lwansbrough/RCTCamera/RCTCameraViewFinder.java com/ofss/digx/mobile/android/allied/AppSignatureHelper.java com/ofss/digx/mobile/android/allied/MainActivity.java com/ofss/digx/mobile/android/allied/OTPAutoFetchPlugin.java com/ofss/digx/mobile/android/allied/ScanCaptureActivity.java com/ofss/digx/mobile/android/infra/HttpWorker.java com/ofss/digx/mobile/android/plugins/BarcodeScanner.java com/ofss/digx/mobile/android/plugins/DeviceCompliance.java com/ofss/digx/mobile/android/plugins/FetchPlugin.java com/ofss/digx/mobile/android/plugins/fcm/FCMPlugin.java com/ofss/digx/mobile/android/plugins/fcm/FCMPluginActivity.java com/ofss/digx/mobile/android/plugins/fcm/MyFirebaseInstanceIDService.java com/ofss/digx/mobile/android/plugins/fcm/My

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/ofss/digx/mobile/android/plugins/firebase/messaging/FirebaseMessagingService.java com/ofss/digx/mobile/android/plugins/fingerprintauth/FingerprintAuth.java com/ofss/digx/mobile/android/plugins/fingerprintauth/FingerprintAuthenticationDialogFragment.java com/ofss/digx/mobile/android/util/Helper.java com/phonegap/plugins/barcodescanner/BarcodeScanner.java com/reactnativecommunity/asyncstorage/AsyncLocalStorageUtil.java com/reactnativecommunity/asyncstorage/AsyncStorageExpoMigration.java com/reactnativecommunity/asyncstorage/AsyncStorageModule.java com/reactnativecommunity/asyncstorage/ReactDatabaseSupplier.java com/reactnativecommunity/geolocation/GeolocationModule.java com/reactnativecommunity/webview/RNCWebViewManager.java com/reactnativemathematics/MathematicsModule.java com/scan/CaptureActivityHandler.java com/scan/DecodeHandler.java com/scan/camera/AutoFocusCallback.java com/scan/camera/CameraConfigurationManager.java com/scan/camera/CameraManager.java com/scan/camera/PreviewCallback.java com/sun/jna/Native.java com/swmansion/gesturehandler/react/RNGestureHandlerModule.java com/swmansion/gesturehandler/react/RNGestureHandlerRootHelper.java com/swmansion/gesturehandler/react/RNGestureHandlerRootView.java com/swmansion/reanimated/nodes/DebugNode.java com/swmansion/rnscreens/ScreenStackHeaderConfigViewManager.java com/techlogix/cordova/plugin/MasterPassParse

NO	ISSUE	SEVERITY	STANDARDS	FILES
				Plugin.java com/techlogix/cordova/plugin/RequestAssembler.java com/th3rdwave/safeareacontext/SafeAreaView.java com/thalesgroup/d1/templates/core/ui/base/BaseViewModel.java com/thalesgroup/d1/templates/core/utils/CoreUtils.java com/thalesgroup/d1/templates/pay/D1Pay.java com/thalesgroup/d1/templates/pay/ui/payment/PaymentActivity.java com/thalesgroup/d1/templates/pay/ui/payment/authentication/PaymentAuthenticationFragment.java com/thalesgroup/d1/templates/pay/ui/payment/error/PaymentErrorFragment.java com/thalesgroup/d1/templates/pay/ui/payment/ready/PaymentReadyFragment.java com/thalesgroup/d1/templates/pay/ui/payment/started/PaymentStartedFragment.java com/thalesgroup/d1/templates/pay/ui/payment/success/PaymentSuccessFragment.java com/thalesgroup/d1/templates/virtualcard/ui/virtualcarddetail/VirtualCardDetailFragment.java com/unikrew/faceoff/ABLPlugin/CustomPlugin.java com/unikrew/faceoff/ABLPlugin/DocumentVerification/DocumentVerificationActivity.java com/unikrew/faceoff/ABLPlugin/Liveness/LivenessActivity.java com/unikrew/faceoff/ABLPlugin/ui/fingerprint/FingerPrintActivity.java com/unikrew/faceoff/ABLPlugin/ui/otp/OtpVerificationActivity.java com/unikrew/faceoff/ABLPlugin/ui/otp/OtpVerificationViewModel.java com/unikrew/faceoff/fingerprint/SecureStorage/b.java com/unikrew/faceoff/liveness/FaceoffLivenessActivity.java com/unikrew/faceoff/liveness/SecureStorage/b.j

NO	ISSUE	SEVERITY	STANDARDS	FILES
				ava com/unikrew/faceoff/liveness/common/a.java com/unikrew/faceoff/liveness/common/c.java com/unikrew/faceoff/liveness/common/d.java com/unikrew/faceoff/liveness/f/a.java com/unikrew/faceoff/liveness/g/a.java com/unikrew/faceoff/liveness/h/a.java com/upi/hcesdk/apdu/CUP_ReadRecord.java com/upi/hcesdk/d/d.java com/upi/hcesdk/mpp/MppService.java com/upi/hcesdk/mpp/tasks/CardProvisionTask.java com/veridiumid/sdk/VeridiumSDK.java com/veridiumid/sdk/VeridiumSDKImpl.java com/veridiumid/sdk/activities/BiometricsAggregateActivity.java com/veridiumid/sdk/analytics/Analytics.java com/veridiumid/sdk/analytics/AnalyticsLibraryDataDumpInternalUse.java com/veridiumid/sdk/crypto/TransactionSigningHelper.java com/veridiumid/sdk/defaultdata/DataStorage.java com/veridiumid/sdk/defaultdata/securepreferences/LegacySecurePreferences.java com/veridiumid/sdk/defaults/biometricsettingsdefaultui/BiometricSettingsFragment.java com/veridiumid/sdk/fourf/ExportConfig.java com/veridiumid/sdk/fourf/FourFLoader.java com/veridiumid/sdk/fourf/PlatformLoggerConnector.java com/veridiumid/sdk/fourf/VeridiumSDKFourFInitializer.java com/veridiumid/sdk/fourf/camera/Camera1PreviewView.java com/veridiumid/sdk/fourf/camera/FourFCamera1.java com/veridiumid/sdk/fourf/camera/FourFCamera2.java com/veridiumid/sdk/fourf/camera/ImageTaggingQueue.java com/veridiumid/sdk/fourf/ui/FourFUIFragment.j

NO	ISSUE	SEVERITY	STANDARDS	FILES
				ava com/veridiumid/sdk/fourf/ui/InstructionalDialog.java com/veridiumid/sdk/internal/licensing/LicensingRepository.java com/veridiumid/sdk/licensing/LicensingManager.java com/veridiumid/sdk/log/Timber.java com/veridiumid/sdk/model/ManifestVeridiumSDKModel.java com/veridiumid/sdk/model/biometrics/engine/impl/DecentralizedBiometricsEngineImpl.java com/veridiumid/sdk/model/biometrics/engine/impl/ModularBiometricProcessor.java com/veridiumid/sdk/model/biometrics/engine/processing/handling/impl/AdaptiveEnrollmentHandler.java com/veridiumid/sdk/model/biometrics/engine/processing/handling/impl/AuthenticationHandler.java com/veridiumid/sdk/model/biometrics/packaging/IBiometricFormats.java com/veridiumid/sdk/model/biometrics/persistence/impl/BytesTemplatesStorage.java com/veridiumid/sdk/model/biometrics/results/BiometricResultsParser.java com/veridiumid/sdk/model/help/AssetsHelper.java com/veridiumid/sdk/model/help/Devices.java com/veridiumid/sdk/security/AesCbcWithIntegrity.java com/veridiumid/sdk/support/AbstractBiometricsActivity.java com/veridiumid/sdk/support/BiometricBaseActivity.java com/veridiumid/sdk/support/help/CustomCountDownTimer.java com/veridiumid/sdk/support/ui/AspectRatioSafeFrameLayout.java com/wenkesj/voice/VoiceModule.java com/yalantis/ucrop/UCropActivity.java com/yalantis/ucrop/task/BitmapCropTask.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/yalantis/ucrop/task/BitmapLoadTask.java com/yalantis/ucrop/util/BitmapLoadUtils.java com/yalantis/ucrop/util/EglUtils.java com/yalantis/ucrop/util/FileUtils.java com/yalantis/ucrop/util/ImageHeaderParser.java com/yalantis/ucrop/view/TransformImageView.java com/zoontek/rnpermissions/RNPermissionsModule.java fr/arnaudguyon/xmltojsonlib/XmlToJson.java info/paysyslabs/hce/plugin/PaysysLabsHcePlugin.java info/paysyslabs/hce/sdk/activity/BaseActivity.java info/paysyslabs/hce/sdk/activity/CdcvmVerificationActivity.java info/paysyslabs/hce/sdk/activity/SdkActivity.java info/paysyslabs/hce/sdk/activity/TapPayActivity.java info/paysyslabs/hce/sdk/hce/ApduService.java info/paysyslabs/hce/sdk/hce/HceAppClass.java info/paysyslabs/hce/sdk/helper/SecureKeyData.java info/paysyslabs/hce/sdk/helper/cryptore/Cryptore.java info/paysyslabs/hce/sdk/retrofit/ApiServiceProvider.java info/paysyslabs/hce/sdk/utils/LogUtil.java me/apla/cordova/AppPreferences.java nl/lightbase/PanoramaView.java org/joda/time/tz/DateTimeZoneBuilder.java org/joda/time/tz/ZoneInfoCompiler.java org/reactnative/facedetector/tasks/FileFaceDetectionAsyncTask.java org/tensorflow/lite/NativeInterpreterWrapper.java util/q/a/d/i.java util/y/i/b.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
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	bolts/MeasurementEvent.java com/bumptech/glide/load/Option.java com/bumptech/glide/load/engine/DataCacheKey.java com/bumptech/glide/load/engine/EngineResource.java com/bumptech/glide/load/engine/ResourceCacheKey.java com/bumptech/glide/manager/RequestManagerRetriever.java com/dengage/sdk/domain/configuration/usecase/GetSdkParameters.java com/dengage/sdk/domain/configuration/usecase/GetVisitorInfo.java com/dengage/sdk/domain/event/model/Event.java com/dengage/sdk/domain/event/model/OpenEvent.java com/dengage/sdk/domain/event/model/TransactionalOpenEvent.java com/dengage/sdk/domain/event/usecase/SendEvent.java com/dengage/sdk/domain/event/usecase/SendOpenEvent.java com/dengage/sdk/domain/event/usecase/SendTransactionalOpenEvent.java com/dengage/sdk/domain/push/model/CustomParam.java com/dengage/sdk/domain/subscription/model/Subscription.java com/dengage/sdk/domain/tag/model/TagsRequest.java com/gemalto/mfs/mwsdk/payment/PaymentServiceListener.java com/ofss/digx/mobile/android/plugins/FetchPlugin.java com/phonegap/plugins/barcodescanner/Intents.java com/samsung/android/sdk/samsungpay/v2/card/AddCardInfo.java com/samsung/android/sdk/samsungpay/v2/card/Card.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/thalesgroup/d1/templates/pay/ui/payment/PaymentActivity.java com/unikrew/faceoff/ABLPlugin/model/BioMetricVerificationResponseData.java com/unikrew/faceoff/ABLPlugin/model/DataDTO.java com/unikrew/faceoff/fingerprint/FingerprintScannerActivity.java com/upi/hcesdk/api/ChekcLUKResult.java com/veridiumid/sdk/defaultdata/securepreferences/SecurePreferences.java com/veridiumid/sdk/internal/licensing/domain/model/License.java com/veridiumid/sdk/internal/licensing/domain/model/SdkLicense.java org/reactnative/facedetector/tasks/FileFaceDetectionAsyncTask.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
3	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-4	com/dengage/sdk/data/remote/api/EventApiProvider$retrofit$2.java com/dengage/sdk/data/remote/api/GetRealTimeInAppProvider$retrofit$2.java com/dengage/sdk/data/remote/api/InAppApiProvider$retrofit$2.java com/dengage/sdk/data/remote/api/PushApiProvider$retrofit$2.java com/ofss/digx/mobile/android/plugins/DeviceCompliance.java com/unikrew/faceoff/ABLPlugin/utils/RetrofitSingleton.java com/veridiumid/sdk/internal/licensing/ws/LicensingServiceApi.java info/paysyslabs/hce/sdk/retrofit/RetrofitBase.java info/paysyslabs/hce/sdk/retrofit/RetrofitBaseUat.java util/h/xy/bb/ra.java util/h/xy/ca/a.java util/h/xy/cp/b.java util/h/xy/db/a.java util/q/a/r/k.java util/w/j/zzf.java util/y/f/e.java util/y/v/c.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/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 com/reactnativecommunity/asyncstorage/AsyncLocalStorageUtil.java com/reactnativecommunity/asyncstorage/ReactDatabaseSupplier.java util/h/xy/cn/ma.java util/h/xy/ct/a.java util/h/xy/ct/ma.java util/y/t/d.java
5	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	bolts/WebViewAppLinkResolver.java com/dengage/sdk/ui/inappmessage/InAppMessageActivity.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
6	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	CustomPlugin/fcm/MyFirebaseMessagingCustom.java com/dengage/sdk/util/DengageUtils.java com/ofss/digx/mobile/android/plugins/fcm/MyFirebaseMessagingService.java util/h/xy/dd/a.java util/h/xy/dg/ra.java util/h/xy/di/a.java util/h/xy/dj/a.java util/h/xy/dl/ra.java util/h/xy/dm/ma.java util/h/xy/dn/a.java util/h/xy/dp/b.java util/h/xy/dq/b.java util/h/xy/dr/a.java util/h/xy/ds/ma.java util/h/xy/dt/a.java util/h/xy/du/ra.java util/h/xy/dw/rc.java util/h/xy/dy/re.java util/h/xy/p002do/a.java util/y/aa/a.java util/y/ac/h.java util/y/z/b.java
7	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/dengage/sdk/ui/test/adapter/DengageInfoAdapter.java com/reactnativecommunity/clipboard/ClipboardModule.java nl/xservices/plugins/SocialSharing.java util/q/a/q/a.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
8	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/agontuk/RNFusedLocation/FusedLocationProvider.java com/dengage/sdk/push/NRTrampoline.java com/dengage/sdk/push/NotificationReceiver.java util/h/xy/bk/a.java util/h/xy/ca/a.java util/h/xy/ca/b.java util/h/xy/ca/ma.java util/h/xy/cy/a.java util/h/xy/g/a.java util/h/xy/j/ma.java util/h/xy/t/a.java
9	Weak Encryption algorithm used	high	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/upi/hcesdk/c/b.java com/upi/hcesdk/c/c.java com/upi/hcesdk/mpp/MppService.java
10	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/upi/hcesdk/apdu/CUP_ReadRecord.java com/upi/hcesdk/c/c.java com/veridiumid/sdk/model/help/EncryptionUtils.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
11	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/agomezmoron/saveImageGallery/SaveImageGallery.java com/github/dhaval2404/imagepicker/util/FileUriUtils.java com/learnium/RNDeviceInfo/RNDeviceModule.java com/lwansbrough/RCTCamera/RCTCameraModule.java com/reactnativecommunity/webview/RNCWebViewModule.java com/unikrew/faceoff/ABLPlugin/ui/ViewFingerprintActivity.java com/unikrew/faceoff/fingerprint/FingerprintScannerActivity.java com/veridiumid/sdk/fourf/camera/FourFCamera2.java com/yalantis/ucrop/util/FileUtils.java nl/xservices/plugins/SocialSharing.java
12	App creates temp file. Sensitive information should never be written into a temp file.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	com/airbnb/android/react/maps/AirMapModule.java com/airbnb/android/react/maps/FileUtil.java com/lwansbrough/RCTCamera/RCTCameraModule.java com/reactnativecommunity/webview/RNCWebViewModule.java com/sun/jna/Native.java
13	This App may request root (Super User) privileges.	warning	CWE: CWE-250: Execution with Unnecessary Privileges OWASP MASVS: MSTG-RESILIENCE-1	com/veridiumid/sdk/model/help/AndroidHelper.java
14	This App may have root detection capabilities.	secure	OWASP MASVS: MSTG-RESILIENCE-1	com/ofss/digx/mobile/android/util/Helper.java com/veridiumid/sdk/model/help/AndroidHelper.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
15	This App uses SafetyNet API.	secure	OWASP MASVS: MSTG-RESILIENCE-7	com/ofss/digx/mobile/android/plugins/DeviceCompliance.java util/w/g/zzi.java
16	The file or SharedPreference is World Readable. Any App can read from the file	high	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	util/h/xy/cu/a.java
17	The file or SharedPreference is World Writable. Any App can write to the file	high	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	com/ofss/digx/mobile/android/plugins/fingerprintauth/FingerprintAuth.java com/unikrew/faceoff/fingerprint/SecureStorage/c.java com/unikrew/faceoff/liveness/SecureStorage/c.java info/paysyslabs/hce/sdk/utils/PrefManager.java
18	The App uses the encryption mode CBC with PKCS5/PKCS7 padding. This configuration is vulnerable to padding oracle attacks.	high	CWE: CWE-649: Reliance on Obfuscation or Encryption of Security-Relevant Inputs without Integrity Checking OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-3	com/ofss/digx/mobile/android/plugins/fingerprintauth/FingerprintAuth.java
19	Calling Cipher.getInstance("AES") will return AES ECB mode by default. ECB mode is known to be weak as it results in the same ciphertext for identical blocks of plaintext.	high	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-2	com/unikrew/faceoff/ABLPlugin/ui/otp/OtpVerificationActivity.java

NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	15/24	android.permission.INTERNET, android.permission.READ_EXTERNAL_STORAGE, android.permission.WRITE_EXTERNAL_STORAGE, android.permission.READ_PHONE_STATE, android.permission.ACCESS_NETWORK_STATE, android.permission.VIBRATE, android.permission.CAMERA, android.permission.READ_CONTACTS, android.permission.ACCESS_WIFI_STATE, android.permission.WAKE_LOCK, android.permission.SYSTEM_ALERT_WINDOW, android.permission.ACCESS_FINE_LOCATION, android.permission.ACCESS_COARSE_LOCATION, android.permission.RECORD_AUDIO, android.permission.RECEIVE_BOOT_COMPLETED
Other Common Permissions	5/45	android.permission.FLASHLIGHT, com.google.android.c2dm.permission.RECEIVE, android.permission.FOREGROUND_SERVICE, com.google.android.gms.permission.AD_ID, 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
unikrew-faceoff-licensing.azurewebsites.net	ok	**IP:** 65.52.250.96 **Country:** United Arab Emirates **Region:** Dubayy **City:** Dubai **Latitude:** 25.258169 **Longitude:** 55.304722 **View:** Google Map
www.rudaw.net	ok	**IP:** 45.60.49.92 **Country:** United States of America **Region:** California **City:** Redwood City **Latitude:** 37.532440 **Longitude:** -122.248833 **View:** Google Map
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
www.aiim.org	ok	**IP:** 199.60.103.31 **Country:** United States of America **Region:** Massachusetts **City:** Cambridge **Latitude:** 42.370129 **Longitude:** -71.086304 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
iptc.org	ok	**IP:** 3.64.29.21 **Country:** Germany **Region:** Hessen **City:** Frankfurt am Main **Latitude:** 50.115520 **Longitude:** 8.684170 **View:** Google Map
play-lh.googleusercontent.com	ok	**IP:** 172.217.19.246 **Country:** United States of America **Region:** California **City:** Mountain View **Latitude:** 37.405991 **Longitude:** -122.078514 **View:** Google Map
www.myabl.com	ok	**IP:** 103.247.66.147 **Country:** Pakistan **Region:** Punjab **City:** Lahore **Latitude:** 31.549721 **Longitude:** 74.343613 **View:** Google Map
myabl-alliedbank.firebaseio.com	ok	**IP:** 34.120.206.254 **Country:** United States of America **Region:** Missouri **City:** Kansas City **Latitude:** 39.099731 **Longitude:** -94.578568 **View:** Google Map
javax.xml.xmlconstants	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
prod.abltpsp.paysyslabs.com	ok	**IP:** 104.22.54.87 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
unikrewutilsbackend.azurewebsites.net	ok	**IP:** 104.45.1.117 **Country:** Netherlands **Region:** Noord-Holland **City:** Amsterdam **Latitude:** 52.374031 **Longitude:** 4.889690 **View:** Google Map
drewnoakes.com	ok	**IP:** 34.229.76.186 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
cdn.dengage.com	ok	**IP:** 13.107.246.63 **Country:** Netherlands **Region:** Noord-Holland **City:** Amsterdam **Latitude:** 52.374031 **Longitude:** 4.889690 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
facial-spoof-detection2.services-backend.com	ok	**IP:** 104.26.14.87 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
docs.swmansion.com	ok	**IP:** 104.21.27.136 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
cipa.jp	ok	**IP:** 118.82.81.189 **Country:** Japan **Region:** Tokyo **City:** Tokyo **Latitude:** 35.689507 **Longitude:** 139.691696 **View:** Google Map
ccn.waag.org	ok	**IP:** 94.130.78.148 **Country:** Germany **Region:** Bayern **City:** Gunzenhausen **Latitude:** 48.323330 **Longitude:** 11.601220 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
unikrew-faceoff-telemetry.azurewebsites.net	ok	**IP:** 65.52.250.96 **Country:** United Arab Emirates **Region:** Dubayy **City:** Dubai **Latitude:** 25.258169 **Longitude:** 55.304722 **View:** Google Map
xerces.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
faceoffmobilebackend.azurewebsites.net	ok	**IP:** 13.77.82.141 **Country:** United States of America **Region:** Virginia **City:** Boydton **Latitude:** 36.667641 **Longitude:** -78.387497 **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
github.com	ok	**IP:** 20.207.73.82 **Country:** United States of America **Region:** Washington **City:** Redmond **Latitude:** 47.682899 **Longitude:** -122.120903 **View:** Google Map
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
play.google.com	ok	**IP:** 142.250.181.142 **Country:** United States of America **Region:** California **City:** Mountain View **Latitude:** 37.405991 **Longitude:** -122.078514 **View:** Google Map
tr-inapp.lib.dengage.com	ok	**IP:** 13.107.246.63 **Country:** Netherlands **Region:** Noord-Holland **City:** Amsterdam **Latitude:** 52.374031 **Longitude:** 4.889690 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
rda.abl.com	ok	**IP:** 104.18.224.201 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
example.com	ok	**IP:** 93.184.215.14 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
www.blutv.com	ok	**IP:** 35.157.15.122 **Country:** Germany **Region:** Hessen **City:** Frankfurt am Main **Latitude:** 50.115520 **Longitude:** 8.684170 **View:** Google Map
event.dengage.com	ok	**IP:** 195.42.242.225 **Country:** Turkey **Region:** Istanbul **City:** Istanbul **Latitude:** 41.013840 **Longitude:** 28.949659 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
faceoffauthentication.azurewebsites.net	ok	**IP:** 13.77.82.141 **Country:** United States of America **Region:** Virginia **City:** Boydton **Latitude:** 36.667641 **Longitude:** -78.387497 **View:** Google Map
meezan-faceoff-backend.covalent.pk	ok	No Geolocation information available.
ns.useplus.org	ok	**IP:** 54.83.4.77 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
thumbs.dreamstime.com	ok	**IP:** 151.101.1.91 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
push.dengage.com	ok	**IP:** 195.42.241.224 **Country:** Turkey **Region:** Istanbul **City:** Istanbul **Latitude:** 41.013840 **Longitude:** 28.949659 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
www.npes.org	ok	**IP:** 104.21.43.185 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
api.whatsapp.com	ok	**IP:** 157.240.227.60 **Country:** Netherlands **Region:** Noord-Holland **City:** Amsterdam **Latitude:** 52.374031 **Longitude:** 4.889690 **View:** Google Map
licensing.prod.veridium-dev.com	ok	**IP:** 35.158.19.174 **Country:** Germany **Region:** Hessen **City:** Frankfurt am Main **Latitude:** 50.115520 **Longitude:** 8.684170 **View:** Google Map
ns.adobe.com	ok	No Geolocation information available.
raw.githubusercontent.com	ok	**IP:** 185.199.110.133 **Country:** United States of America **Region:** Pennsylvania **City:** California **Latitude:** 40.065632 **Longitude:** -79.891708 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
xml.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
purl.org	ok	**IP:** 207.241.239.241 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.781734 **Longitude:** -122.459435 **View:** Google Map
meezan-faceoff-ids.covalent.pk	ok	No Geolocation information available.

FIREBASE DATABASES

FIREBASE URL	DETAILS
https://myabl-alliedbank.firebaseio.com	info App talks to a Firebase Database.

EMAILS

EMAIL	FILE
someone@domain.com	nl/xservices/plugins/SocialSharing.java
this@inappmessageactivity.applicatio	com/dengage/sdk/ui/inappmessage/InAppMessageActivity.java

TRACKERS

TRACKER	CATEGORIES	URL
Facebook Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/66
Facebook Login	Identification	https://reports.exodus-privacy.eu.org/trackers/67
Facebook Places		https://reports.exodus-privacy.eu.org/trackers/69
Facebook Share		https://reports.exodus-privacy.eu.org/trackers/70
Google Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/48
Google Firebase Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/49
Google Tag Manager	Analytics	https://reports.exodus-privacy.eu.org/trackers/105

HARDCODED SECRETS

POSSIBLE SECRETS
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PLAYSTORE INFORMATION

Title: myABL

Score: 4.6923075 **Installs:** 1,000,000+ **Price:** 0 **Android Version Support:** **Category:** Finance **Play Store URL:** com.ofss.digx.mobile.android.allied

Developer Details: Allied Bank Limited, Allied+Bank+Limited, None, http://www.abl.com, complaint@abl.com,

Release Date: Nov 17, 2017 **Privacy Policy:** Privacy link

Description:

myABL brings you the best in mobile banking, giving you a secure and easy way of banking on the go. Let us help you stay on top of your finances. Major features include: 1. Biometric login with Touch ID (Login with Face ID is also available for iPhone users) 2. In-app Biometric Verification 3. Personal Finance Management 4. Manage Personal Information (Add/update address and Preferred address marking) 5. Debit Card Management (Activation, PIN generation and Change, Temporary Block and Unblock, Allow International Use, Allow eCommerce Use) 6. Bus, Movie & Event Tickets 7. Voice Assisted Banking for Funds Transfer, Accounts & ABL Credit Card Balance Inquiry using Siri (for iPhone users) 8. Funds Transfers 9. Utility Bill Payments 10. Credit Card Payments 11. Pay AnyOne 12. Mobile Top ups 13. Govt. Payments 14. Student Fee Payments 15. Internet/Broadband Bill Payments 16. Internet Shopping 17. Investment Payments 18. Mastercard QR Scan & Pay 19. Golootlo QR Scan for discounts 20. Franchise Payments 21. Donations 22. PayDay Loan (Advance Salary) 23. Manage ABL AMC Mutual Fund Investments 24. Daily transaction limit view and adjustment 25. Marking of Transfer/Payment as Favorite 26. Payee/ Biller management. 27. Mini & Full Account Statement 28. Subscription of E-Statement on different frequencies 29. Cheque Book request & Cheque Status Inquiry 30. Account Link/Delink and default account setup 31. View transaction history 32. Manage Linked Devices 33. OTP Medium Change 34. CNIC Expiry Update 35. RAAST Transfer 36. RAAST ID Management 37. Merchant Lending 38. Account Maintenance Certificate 39. Withholding Tax Certificate 40. Positive Pay 41. Stock Market Investment Consent 42. Stop Cheque Payment 43. Alerts & Notifications 44. Allied Live Chat 45. Discount Offers 46. Locate Us 47. Virtual Debit Card 48. Merchant Payments through RAAST QR 49. Temporary Limit Enhancement for ATMs 50. Activation of Dormant Account 51. myABL Coins Loyalty Program 52. In-app Complaint and Refund Request To benefit from myABL Digital Banking, you need to have an active account with us. If you are new to ABL, open an account at any Allied Bank branch. For more information: • 24/7 Helpline: 111-225-225 • Email: complaint@abl.com or cm@abl.com • Desktop view: https://www.myabl.com • Corporate Website: www.abl.com

SCAN LOGS

Timestamp	Event	Error
2024-10-19 12:49:50	Generating Hashes	OK

2024-10-19 12:49:51	Extracting APK	OK
2024-10-19 12:49:51	Unzipping	OK
2024-10-19 12:49:52	Getting Hardcoded Certificates/Keystores	OK
2024-10-19 12:50:00	Parsing AndroidManifest.xml	OK
2024-10-19 12:50:00	Parsing APK with androguard	OK
2024-10-19 12:50:00	Extracting Manifest Data	OK
2024-10-19 12:50:00	Performing Static Analysis on: myABL (com.ofss.digx.mobile.android.allied)	OK
2024-10-19 12:50:00	Fetching Details from Play Store: com.ofss.digx.mobile.android.allied	OK
2024-10-19 12:50:04	Manifest Analysis Started	OK
2024-10-19 12:50:04	Checking for Malware Permissions	OK
2024-10-19 12:50:04	Fetching icon path	OK

2024-10-19 12:50:04	Library Binary Analysis Started	OK
2024-10-19 12:50:04	Reading Code Signing Certificate	OK
2024-10-19 12:50:06	Running APKiD 2.1.5	OK
2024-10-19 12:50:15	Detecting Trackers	OK
2024-10-19 12:50:19	Decompiling APK to Java with jadx	OK
2024-10-19 12:51:52	Converting DEX to Smali	OK
2024-10-19 12:51:52	Code Analysis Started on - java_source	OK
2024-10-19 12:55:39	Android SAST Completed	OK
2024-10-19 12:55:39	Android API Analysis Started	OK
2024-10-19 12:59:17	Android Permission Mapping Started	OK
2024-10-19 13:01:15	Android Permission Mapping Completed	OK

2024-10-19 13:01:19	Finished Code Analysis, Email and URL Extraction	OK
2024-10-19 13:01:19	Extracting String data from APK	OK
2024-10-19 13:01:19	Extracting String data from Code	OK
2024-10-19 13:01:19	Extracting String values and entropies from Code	OK
2024-10-19 13:01:24	Performing Malware check on extracted domains	OK
2024-10-19 13:01:33	Saving to Database	OK

Report Generated by - MobSF v4.0.7

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.