

ANDROID STATIC ANALYSIS REPORT



• Samaritan (6.0.13)

Package Name:	org.givesafe.app
Scan Date:	Nov. 23, 2024, 3:41 p.m.
App Security Score:	50/100 (MEDIUM RISK)
Grade:	
Trackers Detection:	5/432



派 HIGH	▲ MEDIUM	i INFO	✓ SECURE	Q HOTSPOT
4	79	3	3	1

FILE INFORMATION

File Name: Samaritan_6.0.13_APKPure.apk

Size: 45.51MB

MD5: fdae25568fbc7abe9919c291580bb228

SHA1: 4651c4c2ff1ae6c17bf5aecaebc37a64c542c461

SHA256: c043c8187bc43de2c156460cd247635d255e48be80ff1ce0657f35780afc9dfa

i APP INFORMATION

App Name: Samaritan

Package Name: org.givesafe.app

Main Activity: org.givesafe.app.Activities.SplashScreen.SplashActivity

Target SDK: 34 Min SDK: 21 Max SDK:

Android Version Name: 6.0.13
Android Version Code: 386

APP COMPONENTS

Activities: 71 Services: 16 Receivers: 14 Providers: 7

Exported Activities: 61
Exported Services: 6
Exported Receivers: 4

Exported Providers: O

***** CERTIFICATE INFORMATION

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

X.509 Subject: C=US, ST=Washington, L=Seattle, O=Givesafe, OU=Mobile Development, CN=Rene Garcia

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2016-01-12 05:10:01+00:00 Valid To: 2041-01-05 05:10:01+00:00

Issuer: C=US, ST=Washington, L=Seattle, O=Givesafe, OU=Mobile Development, CN=Rene Garcia

Serial Number: 0x71e79a1 Hash Algorithm: sha256

md5: a11fbd603ec92d217de7b21d0c9ff350

sha1: eca89458f8b6b658d60e4e6d2f364b0fa9f13032

sha256: 88ba2db3bda79609352021ef6b731ea5b7f174e9890f2c11b804cc46a252ef60

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: 4c4b779cbbee9f70dae6dda996d243f5c13092e14e8cd74aefae921d664ce386

Found 1 unique certificates

EXAMPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
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.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.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.ACCESS_WIFI_STATE	normal	view Wi-Fi status	Allows an application to view the information about the status of Wi-Fi.
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.RECEIVE_BOOT_COMPLETED	normal	automatically start at boot	Allows an application to start itself as soon as the system has finished booting. This can make it take longer to start the phone and allow the application to slow down the overall phone by always running.
android.permission.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.
android.permission.READ_EXTERNAL_STORAGE	dangerous	read external storage contents	Allows an application to read from external storage.
com.google.android.gms.permission.ACTIVITY_RECOGNITION	dangerous	allow application to recognize physical activity	Allows an application to recognize physical activity.
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.FOREGROUND_SERVICE	normal	enables regular apps to use Service.startForeground.	Allows a regular application to use Service.startForeground.
com.google.android.c2dm.permission.RECEIVE	normal	recieve push notifications	Allows an application to receive push notifications from cloud.
org.givesafe.app.permission.C2D_MESSAGE	unknown	Unknown permission	Unknown permission from android reference

PERMISSION	STATUS	INFO	DESCRIPTION
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE		permission defined by google	A custom permission defined by Google.
android.permission.CAMERA		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.

ক্ল APKID ANALYSIS

FILE	DETAILS	
	FINDINGS	DETAILS
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.TAGS check network operator name check possible VM check
	Compiler	r8

FILE	DETAILS		
	FINDINGS	DETAILS	
classes2.dex	Anti-VM Code	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 subscriber ID check emulator file check possible VM check	
	Anti Debug Code	Debug.isDebuggerConnected() check	
	Compiler	r8 without marker (suspicious)	
classes3.dex	FINDINGS	DETAILS	
	Compiler	r8 without marker (suspicious)	

■ BROWSABLE ACTIVITIES

ACTIVITY	INTENT
org.givesafe.app.Activities.SplashScreen.SplashActivity	Schemes: @string/dpl_schema://, Hosts: @string/dpl_profile_host, @string/dpl_message_host, @string/dpl_give_host, @string/dpl_touchpoint_host, @string/dpl_search_host, @string/dpl_donationhistory_host, @string/dpl_peoplemet_host, @string/dpl_intake_host, @string/dpl_monthlygivingpromotion, @string/dpl_support, @string/dpl_redemption, @string/dpl_settings_host,

ACTIVITY	INTENT
com.facebook.CustomTabActivity	Schemes: @string/fb_login_protocol_scheme://, fbconnect://, Hosts: cct.org.givesafe.app,
org.givesafe.app.Activities.CommunityActivity.CommunityActivity	Schemes: samaritan://, Hosts: engagement,
org.givesafe.app.Activities.SettingsView.SettingsActivity	Schemes: custom-url-scheme-settings-activity://,
org.givesafe.app.Activities.MultiplyYourImpact.ShareActivity	Schemes: @string/dpl_schema://, Hosts: @string/dpl_share_host,
org.givesafe.app.Activities.CheckoutActivity.CheckoutActivity	Schemes: custom-url-scheme-checkout-activity://,
com.braintreepayments.api.BraintreeDeepLinkActivity	Schemes: org.givesafe.app.braintree.deeplinkhandler://,

△ NETWORK SECURITY

		NO	SCOPE	SEVERITY	DESCRIPTION
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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.

Q MANIFEST ANALYSIS

HIGH: 1 | WARNING: 71 | INFO: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable upatched Android version Android 5.0-5.0.2, [minSdk=21]	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 (org.givesafe.app.Activities.ImmediateNeedsSeeMoreActivity) 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 (org.givesafe.app.Activities.HomelessSeeMoreActivity) 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 (org.givesafe.app.Activities.JoinATeamSeeMoreActivity) 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 (org.givesafe.app.Activities.MemberProfile.MemberProfileActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
6	Activity (org.givesafe.app.Activities.MemberProfile.Sdoh_Profile_Selection_Activity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
7	Activity (org.givesafe.app.Activities.MemberProfile.SDOHProfileActivity) 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 (org.givesafe.app.Activities.MemberRegistration.MemberReviewActivity) 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 (org.givesafe.app.Activities.MemberRegistration.MemberRegistrationOnboardingActivity) 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 (org.givesafe.app.Activities.MemberRegistration.PrivateProfileActivity) 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 (org.givesafe.app.Activities.MemberProfile.AddNeedProfileView) 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 (org.givesafe.app.Activities.MemberRegistration.Sdoh_Member_Registration_Activity) 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 (org.givesafe.app.Activities.MemberRegistration.PublicProfileActivity) 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	Activity (org.givesafe.app.Activities.MemberRegistration.TermsAndPrivacyPolicyActivity) 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.
15	Activity (org.givesafe.app.Activities.MemberRegistration.MemberRegistrationActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
16	Activity (org.givesafe.app.Activities.MemberRegistration.AddNeedStepActivity) 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.
17	Activity (org.givesafe.app.Activities.MemberRegistration.AddActionStepActivity) 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
18	Activity (org.givesafe.app.Activities.OnBoardingProfile.OnBoardingProfileActivity) 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.
19	Activity (org.givesafe.app.Activities.DocumentsActivity.DocumentsActivity) 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.
20	Activity (org.givesafe.app.Activities.LifeUpdatesActivity.LifeUpdatesActivity) 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.
21	Activity (org.givesafe.app.Activities.ReceiptActivity.RedemptionReceipt.RedemptionReceiptActivity) 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.
22	Activity (org.givesafe.app.Activities.OnboardingView.CitySelection.CitySelectionActivity) 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.
23	Activity (org.givesafe.app.Activities.LifecareVisitForm.LifeCareVisitActivity) 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.
24	Activity (org.givesafe.app.Activities.AnouncementActivity.AnouncementActivity) 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.
25	Activity (com.facebook.FacebookActivity) 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.
26	Activity (com.facebook.CustomTabActivity) 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
27	Activity (org.givesafe.app.Activities.NavOverlayMenu.NavOverlayActivity) 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.
28	Activity (org.givesafe.app.Activities.ReceiptActivity.ReceiptActivity) 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.
29	Activity (org.givesafe.app.Activities.OnboardingView.OnboardingActivity) 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.
30	Activity (org.givesafe.app.Activities.PermissionsActivity.PermissionsActivity) 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.
31	Activity (org.givesafe.app.Activities.PermissionsActivity.PermissionsInfoOverlayActivity) 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.
32	Activity (org.givesafe.app.Activities.CommunityActivity.CommunityActivity) 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.
33	Activity (org.givesafe.app.Activities.CitygoerHistoryActivity.CitygoerHistoryActivity) 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.
34	Activity (org.givesafe.app.Activities.ReceiptActivity.ReceiptSplashActivity) 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.
35	Activity (org.givesafe.app.Activities.ProfileActivity.Citygoer.ProfileActivity) 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
36	Activity (org.givesafe.app.Activities.IntakeActivity.IntakeActivity) 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.
37	Activity (org.givesafe.app.Activities.SDOHSurveyActivity.SDOHSurveyActivity) 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.
38	Activity (org.givesafe.app.Activities.SearchActivity.SearchActivity) 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.
39	Activity (org.givesafe.app.Activities.CommonUl.CameraActivity.CameraActivity) 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.
40	Activity (org.givesafe.app.Activities.ProfileActivity.Partner.RedemptionProfileActivity) 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.
41	Activity (org.givesafe.app.Activities.ProfileHistory.ProfileHistoryActivity) 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.
42	Activity (org.givesafe.app.Activities.RedemptionViews.RedemptionActivity) 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.
43	Activity (org.givesafe.app.Activities.MessageView.MessageActivity) 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.
44	Activity (org.givesafe.app.Activities.SettingsView.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.

NO	ISSUE	SEVERITY	DESCRIPTION
45	Activity (org.givesafe.app.Activities.MultiplyYourImpact.ShareActivity) 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.
46	Activity (org.givesafe.app.Activities.HelpMenu.HelpMenuActivity) 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.
47	Activity (org.givesafe.app.Activities.MessageView.PartnerMessage.PartnerMessageActivity) 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.
48	Activity (org.givesafe.app.Activities.ReplacementBeaconActivity.ReplacementBeaconActivity) 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.
49	Activity (org.givesafe.app.Activities.CheckoutActivity.CheckoutActivity) 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.
50	Activity (org.givesafe.app.Activities.GivingHistoryActivity.GivingHistoryActivity) 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.
51	Activity (org.givesafe.app.Activities.EngagementHistoryActivity.EngagementHistoryActivity) 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.
52	Activity (org.givesafe.app.Activities.NewsfeedV2.NewsfeedV2Activity) 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.
53	Activity (org.givesafe.app.Activities.JoinTeamOverlayActivity.JoinTeamOverlayActivity) 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
54	Activity (org.givesafe.app.Activities.ChatThreads.ChatThreadSelection.ChatThreadSelectionActivity) 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.
55	Activity (org.givesafe.app.Activities.ChatThreads.ChatThreadActivity.ChatThreadActivity) 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.
56	Activity (org.givesafe.app.Activities.TeamChatActivity.TeamChatActivity) 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.
57	Activity (org.givesafe.app.Activities.TeamChatActivity.TeamChatCommentsActivity.TeamChatCommentsActivity) 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.
58	Activity (org.givesafe.app.Activities.RedemptionHistoryActivity.RedemptionHistoryActivity) 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.
59	Broadcast Receiver (org.givesafe.app.BroadcastReceivers.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.
60	Broadcast Receiver (org.givesafe.app.BroadcastReceivers.BeaconSightingReceiver) 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.
61	Service (org.givesafe.app.AndroidServices.GSBeaconService) 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.
62	Service (org.givesafe.app.AndroidServices.ProximityEventService) is not Protected. [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.

NO	ISSUE	SEVERITY	DESCRIPTION
63	Activity (org.givesafe.app.Activities.MemberRegistration.TopHorizontalNtbActivity) 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.
64	Activity (org.givesafe.app.Activities.MemberRegistration.MemberRegistrationBaseActivity) 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.
65	Activity (org.givesafe.Activities.History.Fragments.HistoryListItemFragment) 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.
66	Activity (com.braintreepayments.api.BraintreeDeepLinkActivity) 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.
67	Service (com.google.firebase.messaging.FirebaseMessagingService) 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.
68	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
69	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.
70	Service (com.google.firebase.iid.FirebaseInstanceIdService) 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.
71	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.
72	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.

</> CODE ANALYSIS

HIGH: 2 | WARNING: 6 | INFO: 2 | SECURE: 2 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	STANDARDS	FILES
				bolts/MeasurementEvent.java butterknife/ButterKnife.java com/braintreepayments/api/BrowserSwitchPersistentStore.java com/braintreepayments/api/MagnesInternalClient.java com/bumptech/glide/Glide.java com/bumptech/glide/gifdecoder/GifHeaderParser.java com/bumptech/glide/gifdecoder/StandardGifDecoder.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/ThumbFetcher.java com/bumptech/glide/load/engine/Decodelpath.java com/bumptech/glide/load/engine/DecodePath.java com/bumptech/glide/load/engine/Engine.java com/bumptech/glide/load/engine/SourceGenerator.java com/bumptech/glide/load/engine/SourceGenerator.java com/bumptech/glide/load/engine/bitmap_recycle/LruBitmapPool.java com/bumptech/glide/load/engine/bitmap_recycle/LruBitmapPool.java com/bumptech/glide/load/engine/cache/DiskLruCacheWrapper.java com/bumptech/glide/load/engine/cache/DiskLruCacheWrapper.java com/bumptech/glide/load/engine/executor/GlideExecutor.java com/bumptech/glide/load/engine/executor/RuntimeCompat.java com/bumptech/glide/load/engine/prefill/BitmapPreFillRunner.java com/bumptech/glide/load/engine/prefill/BitmapPreFillRunner.java com/bumptech/glide/load/model/ByteBufferFileLoader.java com/bumptech/glide/load/model/ByteBufferFileLoader.java com/bumptech/glide/load/model/RyteaufferFileLoader.java com/bumptech/glide/load/model/StreamEncoder.java com/bumptech/glide/load/model/StreamEncoder.java com/bumptech/glide/load/resource/bitmap/DefaultImageHeaderParser.java com/bumptech/glide/load/resource/bitmap/Downsampler.java com/bumptech/glide/load/resource/bitmap/Downsampler.java com/bumptech/glide/load/resource/bitmap/DrawableToBitmapConverter.ja va com/bumptech/glide/load/resource/bitmap/DrawableToBitmapConverter.ja va com/bumptech/glide/load/resource/bitmap/TransformationUtils.java com/bumptech/glide/lo

NO	ISSUE	SEVERITY	STANDARDS	com/bumptech/glide/load/resource/gif/ByteBufferGifDecoder.java
NO	ISSUE	SEVERITY	STANDARDS	com/bumptech/glide/manager/DefaultConnectivityMonitor.java com/bumptech/glide/manager/DefaultConnectivityMonitor.java com/bumptech/glide/manager/RequestManagerFragment.java com/bumptech/glide/manager/RequestManagerFragment.java com/bumptech/glide/manager/RequestManagerFragment.java com/bumptech/glide/manager/RequestTracker.java com/bumptech/glide/manager/SupportRequestManagerFragment.java com/bumptech/glide/manager/SupportRequestManagerFragment.java com/bumptech/glide/request/SingleRequest.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/signature/ApplicationVersionSignature.java com/bumptech/glide/util/ContentLengthInputStream.java com/bumptech/glide/util/pool/FactoryPools.java com/bumptech/glide/util/pool/FactoryPools.java com/ethanhua/skeleton/ViewReplacer.java com/github/dhaval2404/imagepicker/ImagePickerActivity.java com/github/dhaval2404/imagepicker/provider/CropProvider.java com/github/dhaval2404/imagepicker/provider/CropProvider.java com/github/dhaval2404/imagepicker/provider/CropProvider.java com/github/dhaval2404/imagepicker/provider/LopProvider.java com/github/dhaval2404/imagepicker/provider/LopProvider.java com/jaygoo/widget/Utils.java com/jaygoo/widget/Utils.java com/leinardi/android/speeddial/FabWithLabelView.java com/yalantis/ucrop/task/BitmapCoadTask.java com/yalantis/ucrop/task/BitmapLoadUtils.java com/yalantis/ucrop/task/BitmapLoadUtils.java com/yalantis/ucrop/task/BitmapLoadUtils.java com/yalantis/ucrop/task/BitmapLoadUtils.java com/yalantis/ucrop/task/BitmapLoadUtils.java com/yalantis/ucrop/task/BitmapLoadUtils.java com/yalantis/ucrop/task/BitmapLoadUtils.java com/yalantis/ucrop/task/BitmapLoadUtils.java com/yalantis/ucrop/task/BitmapLoadUtils.java com/yalantis/ucrop/task/Bothelabar.java io/card/payment/CardScanner.java io/card/payment/CardScanner.java io/card/payment/CardScanner.java io/card/payment/Overl
				io/card/payment/i18n/I18nManager.java io/fotoapparat/log/LogcatLogger.java lib/android/paypal/com/magnessdk/log/a.java lib/android/paypal/com/magnessdk/network/b.java org/givesafe/Activities/History/Fragments/HistoryFragment.java org/givesafe/Activities/History/HistoryActivity.java

NO	ISSUE	SEVERITY	STANDARDS	org/givesafe/Activities/TouchpointDisplay/TouchpointDetailActivity.java FlyGN esafe/api/APIService.java org/givesafe/api/DownloadFileService.java
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	org/givesafe/app/Activities/BaseActivity.java org/givesafe/app/Activities/CheckoutActivity/CheckoutFragment.java org/givesafe/app/Activities/CheckoutActivity/CheckoutFragment.java org/givesafe/app/Activities/CheckoutActivity/CheckoutRepository.java org/givesafe/app/Activities/CheckoutActivity/CheckoutViewModel.java org/givesafe/app/Activities/CitygoerHistoryActivity/CitygoerHistoryActiv va org/givesafe/app/Activities/CommonUl/CameraActivity/CameraActivity. org/givesafe/app/Activities/CommonUl/SDOHStatusView.java org/givesafe/app/Activities/CommonUl/StickyScrollView.java org/givesafe/app/Activities/CommonUl/StickyScrollView.java org/givesafe/app/Activities/CommonUl/StickyScrollView.java org/givesafe/app/Activities/CommunityActivity/CommunityActivity.java org/givesafe/app/Activities/DocumentsActivity/DocumentsActivity.java org/givesafe/app/Activities/DocumentsActivity/DocumentsActivity.java org/givesafe/app/Activities/IntakeActivity/IntakeActivity.java org/givesafe/app/Activities/IntakeActivity/IntakeViewModel.java org/givesafe/app/Activities/IntakeActivity/StepFragments/BeaconSelect agment.java org/givesafe/app/Activities/IntakeActivity/StepFragments/PublicInforma Fragment.java org/givesafe/app/Activities/IntakeActivity/StepFragments/SDOHQuestio /SDOHQuestionListViewHolder.java org/givesafe/app/Activities/LifecareVisitForm/Components/SDOHSlider org/givesafe/app/Activities/LifecareVisitForm/Components/SDOHSlider org/givesafe/app/Activities/LifecareVisitForm/LCVFormFragments/Goall GoalListViewHolder.java org/givesafe/app/Activities/LifecareVisitForm/LCVFormFragments/Coall ment.java org/givesafe/app/Activities/LifecareVisitForm/LCVFormFragments/LastN hReviewFragment.java org/givesafe/app/Activities/LifecareVisitForm/LCVFormFragments/Dole estionIndicatorList/SDOHQuestion/IndicatorViewHolder.java org/givesafe/app/Activities/LifecareVisitForm/LCVFormFragments/Dole estionList/SDOHQuestionViewHolder.java org/givesafe/app/Activities/LifecareVisitForm/LCVFormFragments/SDOI estionList/SDOHQuestionViewHolder.java org/givesa

NO	ISSUE	SEVERITY	STANDARDS	org/givesafe/app/Activities/LifecareVisitForm/LCVIntroFragment.java
				org/givesafe/app/Activities/LifecareVisitSummary/CheckinList/CheckinListViewHolder.java org/givesafe/app/Activities/MemberProfile/adapters/GoalsProfileRecyclerAd apter.java org/givesafe/app/Activities/MessageView/PartnerMessage/PartnerMessageP resenter.java org/givesafe/app/Activities/MultiplyYourImpact/ShareActivity.java org/givesafe/app/Activities/NewsfeedV2/DynamicHeightRecyclerView.java org/givesafe/app/Activities/NewsfeedV2/ImmediateNeedsAdapter.java org/givesafe/app/Activities/NewsfeedV2/ImmediateNeedsAdapter.java org/givesafe/app/Activities/NewsfeedV2/NewsfeedV2Activity.java org/givesafe/app/Activities/NewsfeedV2/NewsfeedV2ViewModel.java org/givesafe/app/Activities/NewsfeedV2/SmallestTeamsAdapter.java org/givesafe/app/Activities/OnboardingView/Authentication/AuthFormFrag ment.java org/givesafe/app/Activities/OnboardingView/Authentication/PasswordFrag ment.java org/givesafe/app/Activities/OnboardingView/Authentication/PasswordFrag ment.java org/givesafe/app/Activities/OnboardingView/OnboardingActivity.java org/givesafe/app/Activities/OnboardingView/OnboardingViewModel.java org/givesafe/app/Activities/ProfileActivity/PermissionsActivity.java org/givesafe/app/Activities/ProfileActivity/Citygoer/ProfileLatestNewsFragm ent.java org/givesafe/app/Activities/ProfileActivity/Citygoer/ProfileViewModel.java org/givesafe/app/Activities/ProfileActivity/Citygoer/RecurringBottomSheetDi alogFragment.java org/givesafe/app/Activities/ProfileActivity/Partner/Achievables/NewGoalVie wHolder.java org/givesafe/app/Activities/ProfileActivity/Partner/Achievables/NewGoalVie wHolder.java org/givesafe/app/Activities/ProfileActivity/Partner/Achievables/NewGoalVie wHolder.java org/givesafe/app/Activities/ProfileActivity/Partner/Achievables/NewGoalVie wHolder.java org/givesafe/app/Activities/ProfileActivity/Partner/RedemptionProfileViewM odel.java org/givesafe/app/Activities/ReceiptActivity/Partner/RedemptionChecko utFragment.java org/givesafe/app/Activities/RedemptionViews/RedemptionActivity.java org/givesafe/app/Activities/Redemptio

	1	'		OHAnswersSummaryViewHolder.java
NO	ISSUE	SEVERITY	STANDARDS	Fig/gSesafe/app/Activities/SDOHSurveyActivity/SDOHSurveyActivity.java
	I	· [org/givesafe/app/Activities/SDOHSurveyActivity/SDOHSurveyController.java
	<u> </u>	'		org/givesafe/app/Activities/SDOHSurveyActivity/SDOHSurveyViewModel.jav
ļ	I	'		a
ļ	I	1		org/givesafe/app/Activities/SearchActivity/Components/SearchBar.java
ļ	I	1		org/givesafe/app/Activities/SearchActivity/SearchActivity.java
ļ	I	1		org/givesafe/app/Activities/SearchActivity/SearchPresenter.java
ļ	I	1		org/givesafe/app/Activities/SearchActivity/SearchResultAdapter.java
ļ	I	1		org/givesafe/app/Activities/SearchActivity/SearchResultViewHolder.java
ļ	I	1		org/givesafe/app/Activities/SplashScreen/DeepLinksController.java
ļ	I	1		org/givesafe/app/Activities/SplashScreen/SplashActivity.java
ļ	I	1		org/givesafe/app/AndroidServices/FirebaseldService.java
ļ	I	1		org/givesafe/app/AndroidServices/FirebaseNotificationService.java
ļ	I	'		org/givesafe/app/AndroidServices/GSBeaconService.java
ļ	I	1		org/givesafe/app/AndroidServices/ProximityEventService.java
ļ	I	'		org/givesafe/app/BroadcastReceivers/AwareFenceReceiver.java
ļ	I	1		org/givesafe/app/BroadcastReceivers/BeaconSightingReceiver.java
ļ	I	1		org/givesafe/app/BroadcastReceivers/HardwareChangeReceiver.java
ļ	I	1		org/givesafe/app/MainApplication.java
ļ	I	1		org/givesafe/app/Models/GSProximityEvent.java
ļ	I	1		org/givesafe/app/Utils/AnalyticsTrackerHelper.java
ļ	I	1		org/givesafe/app/Utils/AppNotificationManager.java
ļ	I	1		org/givesafe/app/Utils/BeaconManager.java
ļ	I	'		org/givesafe/app/Utils/BraintreeHelper.java
J	I	'		org/givesafe/app/Utils/CitygoerRemoteNotificationHandler.java
ļ	I	1		org/givesafe/app/Utils/CrashlyticsHelper.java
ļ	I	1		org/givesafe/app/Utils/ExtensionsKt.java
ļ	I	1		org/givesafe/app/Utils/FacebookSignInHelper.java
ļ	I	1		org/givesafe/app/Utils/FormatUtils.java
ļ	I	'		org/givesafe/app/Utils/FormatOtils.java org/givesafe/app/Utils/GpsUtils.java
J	I	'		org/givesafe/app/Utils/HardwareManager.java
J	I	'		org/givesafe/app/Utils/HardwareManager.java org/givesafe/app/Utils/Integrations/Gimbal/GimbalIntegration.java
ļ	I	'		org/givesale/app/otils/integrations/Gimbal/Gimbalintegration.java org/joda/time/tz/DateTimeZoneBuilder.java
l	I	1		org/joda/time/tz/DateTimeZoneBuilder.java org/joda/time/tz/ZoneInfoCompiler.java
	l	<u> </u>		org/joua/time/tz/zoneimocompiler.java
_	 	'		bolts/MeasurementEvent.java
l	I	'		com/braintreepayments/api/AnalyticsClient.java
ļ	I	'		com/braintreepayments/api/AuthenticationInsight.java
ļ	I	'		com/braintreepayments/api/BaseCard.java
l	I	1		com/braintreepayments/api/BaseCard.java com/braintreepayments/api/BinData.java
l	I	1		com/braintreepayments/api/BinData.java com/braintreepayments/api/BraintreeApiConfiguration.java
l	I	1		com/braintreepayments/api/BraintreeApiConfiguration.java com/braintreepayments/api/BraintreeError.java
l	I	'		com/braintreepayments/api/BraintreeError.java com/braintreepayments/api/BraintreeHttpClient.java
l	I	1		com/braintreepayments/api/BraintreeHttpClient.java com/braintreepayments/api/BraintreeSharedPreferences.java
I	1	'		com/praintreepayments/api/braintreeshareurrererences.java

NO	ISSUE	SEVERITY	STANDARDS	com/braintreepayments/api/BrowserSwitchPersistentStore.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/braintreepayments/api/CardConfiguration.java com/braintreepayments/api/ClientToken.java com/braintreepayments/api/ClientToken.java com/braintreepayments/api/Configuration.java com/braintreepayments/api/DotaCollector.java com/braintreepayments/api/DotaCollector.java com/braintreepayments/api/ErrorWithResponse.java com/braintreepayments/api/GooglePayConfiguration.java com/braintreepayments/api/PayPalAccount.java com/braintreepayments/api/PayPalAccount.java com/braintreepayments/api/PayPalAccountNonce.java com/braintreepayments/api/PayPalConfiguration.java com/braintreepayments/api/PayPalCreditFinancing.java com/braintreepayments/api/PayPalCreditFinancing.java com/braintreepayments/api/PayPalDataCollector.java com/braintreepayments/api/PayPalDataCollector.java com/braintreepayments/api/PayPalPaymentResource.java com/braintreepayments/api/PayPalPaymentResource.java com/braintreepayments/api/PayPalRequest.java com/braintreepayments/api/PayPalRequest.java com/braintreepayments/api/PayPalRequest.java com/braintreepayments/api/PostalAddressParser.java com/braintreepayments/api/SamsungPayConfiguration.java com/braintreepayments/api/ThreeDSecureInfo.java com/braintreepa

NO	ISSUE	SEVERITY	STANDARDS	FILES
3	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	org/givesafe/app/Activities/MultiplyYourImpact/ShareActivity.java
4	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-	com/braintreepayments/api/TLSSocketFactory.java lib/android/paypal/com/magnessdk/network/base/f.java org/givesafe/api/APIService.java org/givesafe/api/DownloadFileService.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	nl/dionsegijn/konfetti/Confetti.java nl/dionsegijn/konfetti/ParticleSystem.java nl/dionsegijn/konfetti/emitters/RenderSystem.java nl/dionsegijn/konfetti/models/LocationModule.java nl/dionsegijn/konfetti/modules/VelocityModule.java org/givesafe/api/Models/TouchpointQuestionResponse.java org/givesafe/app/Activities/ProfileActivity/Citygoer/ProfileUpdatesFragment. java
6	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/github/dhaval2404/imagepicker/util/FileUriUtils.java com/yalantis/ucrop/util/FileUtils.java io/fotoapparat/log/LoggersKt.java lib/android/paypal/com/magnessdk/filesystem/a.java lib/android/paypal/com/magnessdk/h.java lib/android/paypal/com/magnessdk/i.java
7	This App may request root (Super User) privileges.	warning	CWE: CWE-250: Execution with Unnecessary Privileges OWASP MASVS: MSTG- RESILIENCE-1	lib/android/paypal/com/magnessdk/c.java
8	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	org/givesafe/app/Utils/UserSessionData.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
9	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
10	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/braintreepayments/api/PersistentStore.java
11	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	lib/android/paypal/com/magnessdk/filesystem/b.java
12	This App may have root detection capabilities.	secure	OWASP MASVS: MSTG- RESILIENCE-1	lib/android/paypal/com/magnessdk/filesystem/b.java lib/android/paypal/com/magnessdk/h.java

> SHARED LIBRARY BINARY ANALYSIS

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
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NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
1	armeabi-v7a/libopencv_imgproc.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
2	armeabi-v7a/libcardioDecider.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	armeabi-v7a/libcardioRecognizer.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
4	armeabi-v7a/libopencv_core.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
5	armeabi- v7a/libcardioRecognizer_tegra2.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
6	x86/libopencv_imgproc.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	x86/libcardioDecider.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
8	x86/libcardioRecognizer.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
9	x86/libopencv_core.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
10	x86/libcardioRecognizer_tegra2.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	arm64-v8a/libopencv_imgproc.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
12	arm64-v8a/libcardioDecider.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	arm64-v8a/libcardioRecognizer.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	arm64-v8a/libopencv_core.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
15	arm64- v8a/libcardioRecognizer_tegra2.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	x86_64/libopencv_imgproc.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	x86_64/libcardioDecider.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
18	x86_64/libcardioRecognizer.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	x86_64/libopencv_core.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
20	x86_64/libcardioRecognizer_tegra2.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	armeabi-v7a/libopencv_imgproc.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
22	armeabi-v7a/libcardioDecider.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
23	armeabi-v7a/libcardioRecognizer.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
24	armeabi-v7a/libopencv_core.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
25	armeabi- v7a/libcardioRecognizer_tegra2.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
26	x86/libopencv_imgproc.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
27	x86/libcardioDecider.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
28	x86/libcardioRecognizer.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	x86/libopencv_core.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	x86/libcardioRecognizer_tegra2.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	arm64-v8a/libopencv_imgproc.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
32	arm64-v8a/libcardioDecider.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
33	arm64-v8a/libcardioRecognizer.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	arm64-v8a/libopencv_core.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	arm64- v8a/libcardioRecognizer_tegra2.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
36	x86_64/libopencv_imgproc.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
37	x86_64/libcardioDecider.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
38	x86_64/libcardioRecognizer.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
39	x86_64/libopencv_core.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
40	x86_64/libcardioRecognizer_tegra2.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

N	10	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

BEHAVIOUR ANALYSIS

RULE ID	BEHAVIOUR	LABEL	FILES
00022	Open a file from given absolute path of the file	file	com/github/dhaval2404/imagepicker/lmagePicker.java com/github/dhaval2404/imagepicker/provider/CompressionProvider.java com/github/dhaval2404/imagepicker/util/FileUtil.java com/github/dhaval2404/imagepicker/util/ImageUtil.java lib/android/paypal/com/magnessdk/g.java org/givesafe/api/DownloadFileService.java org/givesafe/app/Activities/DocumentsActivity/DocumentsActivity.java
00063	Implicit intent(view a web page, make a phone call, etc.)	control	bolts/AppLinkNavigation.java bolts/AppLinks.java bolts/MeasurementEvent.java com/braintreepayments/api/BraintreeClient.java com/braintreepayments/api/BrowserSwitchInspector.java com/braintreepayments/api/ManifestValidator.java com/braintreepayments/api/ManifestValidator.java com/braintreepayments/api/PayPalClient.java org/givesafe/app/Activities/AnouncementActivity/AnouncementActivity.java org/givesafe/app/Activities/AppNavigator.java org/givesafe/app/Activities/CommunityActivity/LocalBeaconHoldersLayout/LocalBeaconHolders Adapter.java org/givesafe/app/Activities/NewsfeedV2/NewsfeedV2Activity.java org/givesafe/app/Utils/AppNotificationManager.java

RULE ID	BEHAVIOUR	LABEL	FILES
00091	Retrieve data from broadcast	collection	com/github/dhaval2404/imagepicker/provider/CameraProvider.java com/github/dhaval2404/imagepicker/provider/CompressionProvider.java com/github/dhaval2404/imagepicker/provider/CropProvider.java io/card/payment/DataEntryActivity.java org/givesafe/app/Activities/AnouncementActivity/AnoucementPresenter.java org/givesafe/app/Activities/ChatThreads/ChatThreadActivity/ChatThreadActivity.java org/givesafe/app/Activities/MemberProfile/MemberProfileActivity.java org/givesafe/app/Activities/MemberProfile/SDOHProfileActivity.java org/givesafe/app/Activities/MemberProfile/Sdoh_Profile_Selection_Activity.java org/givesafe/app/Activities/MessageView/CitygoerMessagePresenter.java org/givesafe/app/Activities/MessageView/PartnerMessage/PartnerMessagePresenter.java org/givesafe/app/Activities/NewsfeedV2/NewsfeedV2Activity.java org/givesafe/app/Activities/OnBoardingProfile/OnBoardingProfileActivity.java org/givesafe/app/Activities/ProfileActivity/Citygoer/ProfileOrganizationAndTeamFragment.java org/givesafe/app/Activities/ProfileActivity/Citygoer/ProfileOrganizationAndTeamFragment.java org/givesafe/app/Activities/ProfileActivity/Citygoer/ProfileOrganizationAndTeamFragment.java org/givesafe/app/Activities/ProfileActivity/Partner/RedemptionProfileActivity.java org/givesafe/app/Activities/ProfileHistory/ProfileHistoryPresenter.java org/givesafe/app/Activities/ProfileHistory/ProfileHistoryPresenter.java
00036	Get resource file from res/raw directory	reflection	bolts/AppLinkNavigation.java bolts/MeasurementEvent.java com/braintreepayments/api/ManifestValidator.java lib/android/paypal/com/magnessdk/h.java org/givesafe/app/Utils/AppNotificationManager.java
00013	Read file and put it into a stream	file	com/bumptech/glide/disklrucache/DiskLruCache.java com/bumptech/glide/load/model/FileLoader.java com/github/dhaval2404/imagepicker/util/FileUtil.java com/yalantis/ucrop/util/FileUtils.java lib/android/paypal/com/magnessdk/filesystem/a.java okio/Okio_JvmOkioKt.java org/givesafe/app/Activities/DocumentsActivity/DocumentsActivity.java org/joda/time/tz/ZoneInfoCompiler.java org/joda/time/tz/ZoneInfoProvider.java
00125	Check if the given file path exist	file	com/github/dhaval2404/imagepicker/provider/CameraProvider.java com/github/dhaval2404/imagepicker/provider/CropProvider.java

RULE ID	BEHAVIOUR	LABEL	FILES
00051	Implicit intent(view a web page, make a phone call, etc.) via setData	control	bolts/AppLinkNavigation.java com/braintreepayments/api/BrowserSwitchInspector.java com/braintreepayments/api/ManifestValidator.java org/givesafe/app/Activities/AppNavigator.java org/givesafe/app/Utils/AppNotificationManager.java
00131	Get location of the current GSM and put it into JSON	collection location	lib/android/paypal/com/magnessdk/i.java
00042	Query WiFi BSSID and scan results	collection wifi	lib/android/paypal/com/magnessdk/i.java
00130	Get the current WIFI information	wifi collection	lib/android/paypal/com/magnessdk/h.java lib/android/paypal/com/magnessdk/i.java
00137	Get last known location of the device	location collection	lib/android/paypal/com/magnessdk/i.java org/givesafe/app/AndroidServices/ProximityEventService.java
00033	Query the IMEI number	collection	lib/android/paypal/com/magnessdk/i.java
00004	Get filename and put it to JSON object	file collection	lib/android/paypal/com/magnessdk/h.java lib/android/paypal/com/magnessdk/i.java
00139	Get the current WiFi id	collection wifi	lib/android/paypal/com/magnessdk/i.java
00115	Get last known location of the device	collection location	lib/android/paypal/com/magnessdk/i.java org/givesafe/app/AndroidServices/ProximityEventService.java
00066	Query the ICCID number	collection	lib/android/paypal/com/magnessdk/i.java
00135	Get the current WiFi id and put it into JSON.	wifi collection	lib/android/paypal/com/magnessdk/i.java
00067	Query the IMSI number	collection	lib/android/paypal/com/magnessdk/i.java
00076	Get the current WiFi information and put it into JSON	collection wifi	lib/android/paypal/com/magnessdk/h.java lib/android/paypal/com/magnessdk/i.java

RULE ID	BEHAVIOUR	LABEL	FILES
00099	Get location of the current GSM and put it into JSON	collection location	lib/android/paypal/com/magnessdk/i.java
00083	Query the IMEI number	collection telephony	lib/android/paypal/com/magnessdk/i.java
00113	Get location and put it into JSON	collection location	lib/android/paypal/com/magnessdk/i.java
00016	Get location info of the device and put it to JSON object	location collection	lib/android/paypal/com/magnessdk/i.java
00005	Get absolute path of file and put it to JSON object	file	lib/android/paypal/com/magnessdk/g.java
00192	Get messages in the SMS inbox	sms	com/github/dhaval2404/imagepicker/util/FileUriUtils.java com/yalantis/ucrop/util/FileUtils.java org/givesafe/app/Activities/NewsfeedV2/NewsfeedV2Activity.java
00075	Get location of the device	collection location	org/givesafe/app/AndroidServices/ProximityEventService.java
00183	Get current camera parameters and change the setting.	camera	io/card/payment/CardScanner.java io/fotoapparat/hardware/CameraDevice.java
00089	Connect to a URL and receive input stream from the server	command network	bolts/WebViewAppLinkResolver.java com/bumptech/glide/load/data/HttpUrlFetcher.java org/givesafe/app/Utils/FileDownloader.java
00030	Connect to the remote server through the given URL	network	bolts/WebViewAppLinkResolver.java com/bumptech/glide/load/data/HttpUrlFetcher.java org/givesafe/app/Utils/FileDownloader.java
00109	Connect to a URL and get the response code	network command	bolts/WebViewAppLinkResolver.java com/braintreepayments/api/SynchronousHttpClient.java com/bumptech/glide/load/data/HttpUrlFetcher.java
00123	Save the response to JSON after connecting to the remote server	network command	bolts/WebViewAppLinkResolver.java

RULE ID	BEHAVIOUR	LABEL	FILES
00094	Connect to a URL and read data from it	command network	bolts/WebViewAppLinkResolver.java
00108	Read the input stream from given URL	network command	bolts/WebViewAppLinkResolver.java com/braintreepayments/api/BaseHttpResponseParser.java
00096	Connect to a URL and set request method	command network	com/braintreepayments/api/SynchronousHttpClient.java
00054	Install other APKs from file	reflection	com/github/dhaval2404/imagepicker/util/IntentUtils.java
00126	Read sensitive data(SMS, CALLLOG, etc)	collection sms calllog calendar	com/github/dhaval2404/imagepicker/util/FileUriUtils.java
00011	Query data from URI (SMS, CALLLOGS)	sms calllog collection	com/github/dhaval2404/imagepicker/util/FileUriUtils.java
00077	Read sensitive data(SMS, CALLLOG, etc)	collection sms calllog calendar	com/bumptech/glide/load/data/mediastore/ThumbFetcher.java com/github/dhaval2404/imagepicker/util/FileUriUtils.java
00072	Write HTTP input stream into a file	command network file	org/givesafe/app/Utils/FileDownloader.java
00062	Query WiFi information and WiFi Mac Address	wifi collection	lib/android/paypal/com/magnessdk/h.java
00009	Put data in cursor to JSON object	file	lib/android/paypal/com/magnessdk/h.java
00116	Get the current WiFi MAC address and put it into JSON	wifi collection	lib/android/paypal/com/magnessdk/h.java
00082	Get the current WiFi MAC address	collection wifi	lib/android/paypal/com/magnessdk/h.java



TITLE	SEVERITY	DESCRIPTION
App talks to a Firebase database	info	The app talks to Firebase database at https://givesafe-3b842.firebaseio.com
Firebase Remote Config disabled	secure	Firebase Remote Config is disabled for https://firebaseremoteconfig.googleapis.com/v1/projects/541319639342/namespaces/firebase:fetch? key=AlzaSyCLR-nrzyZbieHlkuBs-QaCNUgTE4JFtoE. This is indicated by the response: The response code is 403

:: :: ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	9/25	android.permission.INTERNET, android.permission.VIBRATE, android.permission.ACCESS_FINE_LOCATION, android.permission.ACCESS_WIFI_STATE, android.permission.WAKE_LOCK, android.permission.ACCESS_NETWORK_STATE, android.permission.RECEIVE_BOOT_COMPLETED, android.permission.READ_EXTERNAL_STORAGE, android.permission.CAMERA
Other Common Permissions	7/44	android.permission.BLUETOOTH, android.permission.BLUETOOTH_ADMIN, com.google.android.gms.permission.ACTIVITY_RECOGNITION, com.google.android.gms.permission.AD_ID, android.permission.FOREGROUND_SERVICE, 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
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Q DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
www.staging.samaritan.city	ok	IP: 35.82.245.179 Country: United States of America Region: Oregon City: Portland Latitude: 45.523449 Longitude: -122.676208 View: Google Map
api-m.paypal.com	ok	IP: 151.101.247.1 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
samaritan.city	ok	IP: 198.49.23.145 Country: United States of America Region: New York City: New York City Latitude: 40.734699 Longitude: -74.005898 View: Google Map
api.braintreegateway.com	ok	IP: 3.122.176.248 Country: Germany Region: Hessen City: Frankfurt am Main Latitude: 50.115520 Longitude: 8.684170 View: Google Map

DOMAIN	STATUS	GEOLOCATION
c.sandbox.paypal.com	ok	IP: 151.101.247.1 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
www.paypalobjects.com	ok	IP: 192.229.221.25 Country: United States of America Region: Virginia City: Ashburn Latitude: 39.034081 Longitude: -77.488503 View: Google Map
github.com	ok	IP: 140.82.121.3 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
play.google.com	ok	IP: 216.58.211.238 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

DOMAIN	STATUS	GEOLOCATION
api.sandbox.braintreegateway.com	ok	IP: 3.120.119.75 Country: Germany Region: Hessen City: Frankfurt am Main Latitude: 50.115520 Longitude: 8.684170 View: Google Map
b.stats.paypal.com	ok	IP: 34.147.177.40 Country: United States of America Region: Texas City: Houston Latitude: 29.941401 Longitude: -95.344498 View: Google Map
encrypted-tbn0.gstatic.com	ok	IP: 216.58.211.238 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
c.paypal.com	ok	IP: 151.101.245.21 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map

DOMAIN	STATUS	GEOLOCATION
givesafe-3b842.firebaseio.com	ok	IP: 35.201.97.85 Country: United States of America Region: Missouri City: Kansas City Latitude: 39.099731 Longitude: -94.578568 View: Google Map
braintreepayments.com	ok	IP: 52.40.93.87 Country: United States of America Region: Oregon City: Portland Latitude: 45.523449 Longitude: -122.676208 View: Google Map
medium.com	ok	IP: 162.159.153.4 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
www.samaritan.city	ok	IP: 52.11.216.139 Country: United States of America Region: Oregon City: Portland Latitude: 45.523449 Longitude: -122.676208 View: Google Map

DOMAIN	STATUS	GEOLOCATION
developer.paypal.com	ok	IP: 151.101.245.21 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
10.0.2.2	ok	IP: 10.0.2.2 Country: - Region: - City: - Latitude: 0.000000 Longitude: 0.000000 View: Google Map

EMAILS

EMAIL	FILE
support@samaritan.city	org/givesafe/api/NetworkRequestError.java
support@samaritan.city	org/givesafe/api/SamaritanError.java
support@samaritan.city	org/givesafe/app/Activities/AppNavigator.java
name@example.com	org/givesafe/app/Activities/IntakeActivity/IntakeViewModel.java
yourname@example.com support@samaritan.city	org/givesafe/app/Activities/OnboardingView/OnboardingViewModel.java
support@samaritan.city	org/givesafe/app/Activities/LifecareVisitForm/LCVFormRepository.java
support@samaritan.city	org/givesafe/app/Activities/CitygoerHistoryActivity/CitygoerHistoryActivity.java

EMAIL

hey@samaritan.city	org/givesafe/app/Activities/OnboardingView/CitySelection/CitySelectionFragment.java
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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 Share		https://reports.exodus-privacy.eu.org/trackers/70
Google CrashLytics	Crash reporting	https://reports.exodus-privacy.eu.org/trackers/27
Google Firebase Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/49

₽ HARDCODED SECRETS

POSSIBLE SECRETS

 $"google_api_key": "AlzaSyCLR-nrzyZbieHlkuBs-QaCNUgTE4JFtoE"$

 $"google_crash_reporting_api_key": "AlzaSyCLR-nrzyZbieHlkuBs-QaCNUgTE4JFtoE"$

 $"com_facebook_device_auth_instructions": "\\ \verb|^0| < b > facebook.com/device < /b & gt \\ \verb|^0| \\ \verb|^0$

POSSIBLE SECRETS
"firebase_database_url" : "https://givesafe-3b842.firebaseio.com"
"image_picker_provider_authority_suffix" : ".imagepicker.provider"
"com_facebook_device_auth_instructions" : " facebook.com/device 000000000000000000000000000000000000
x34mMawEUcCG8l95riWCOK+kAJYejVmdt44l6tzcyUc=
56c8ea595c439f4f70d21d9755ea39fc
065b039e1e06945e854870d014261016
7e6b516a-b8c1-4da6-bb20-9838167077d2
470fa2b4ae81cd56ecbcda9735803434cec591fa
3AANd9GcQuheccjvlQvkTUfuGcVzl9x1JvTwDY3xSE6NGKYtUOtpfe
df6b721c8b4d3b6eb44c861d4415007e5a35fc95
258EAFA5-E914-47DA-95CA-C5AB0DC85B11
676763be-8328-4a38-90c2-06e6afaa84ac
9b8f518b086098de3d77736f9458a3d2f6f95a37
49f946663a8deb7054212b8adda248c6
2438bce1ddb7bd026d5ff89f598b3b5e5bb824b3
c103703e120ae8cc73c9248622f3cd1e
dvvRPtAC3ZyZPSeAZahzhWjU7GNpTX4V
fqJfdzGDvfwbedsKSUGty3VZ9taXxMVw

POSSIBLE SECRETS

a4b7452e2ed8f5f191058ca7bbfd26b0d3214bfc

8a3c4b262d721acd49a4bf97d5213199c86fa2b9

cc2751449a350f668590264ed76692694a80308a

5e8f16062ea3cd2c4a0d547876baa6f38cabf625



Title: Samaritan

Score: 4.233333 Installs: 10,000+ Price: 0 Android Version Support: Category: Lifestyle Play Store URL: org.givesafe.app

Developer Details: GiveSafe Apps, 9059039496062643872, None, http://www.samaritan.city/, inquiries@samaritan.city,

Release Date: Jan 22, 2016 Privacy Policy: Privacy link

Description:

Samaritan exists to reveal the stories with those we pass everyday—the single mom on the bus, the grandfather on the street, or the homeless teen outside the supermarket—and help us respond well in these moments. When you cross paths with a Samaritan Beacon Holder, a notification will appear on your phone. Tapping on the notification provides an opportunity to read about the person's story or contribute \$1 or more towards a needed good or service (such as food, fuel or clothing). The app currently supports Beacon Holders in Seattle, WA only.

∷ SCAN LOGS

Timestamp	Event	Error
2024-11-23 15:42:00	Generating Hashes	OK

2024-11-23 15:42:00	Extracting APK	ОК
2024-11-23 15:42:00	Unzipping	ОК
2024-11-23 15:42:01	Getting Hardcoded Certificates/Keystores	ОК
2024-11-23 15:42:01	Parsing APK with androguard	ОК
2024-11-23 15:42:07	Parsing AndroidManifest.xml	ОК
2024-11-23 15:42:07	Extracting Manifest Data	OK
2024-11-23 15:42:07	Manifest Analysis Started	OK
2024-11-23 15:42:08	Performing Static Analysis on: Samaritan (org.givesafe.app)	OK
2024-11-23 15:42:08	Fetching Details from Play Store: org.givesafe.app	OK
2024-11-23 15:42:08	Checking for Malware Permissions	OK
2024-11-23 15:42:08	Fetching icon path	ОК
2024-11-23 15:42:08	Library Binary Analysis Started	ОК

2024-11-23 15:42:08	Analyzing apktool_out/lib/armeabi-v7a/libopencv_imgproc.so	ОК
2024-11-23 15:42:08	Analyzing apktool_out/lib/armeabi-v7a/libcardioDecider.so	ОК
2024-11-23 15:42:08	Analyzing apktool_out/lib/armeabi-v7a/libcardioRecognizer.so	ОК
2024-11-23 15:42:08	Analyzing apktool_out/lib/armeabi-v7a/libopencv_core.so	ОК
2024-11-23 15:42:08	Analyzing apktool_out/lib/armeabi-v7a/libcardioRecognizer_tegra2.so	ОК
2024-11-23 15:42:08	Analyzing apktool_out/lib/x86/libopencv_imgproc.so	OK
2024-11-23 15:42:09	Analyzing apktool_out/lib/x86/libcardioDecider.so	OK
2024-11-23 15:42:09	Analyzing apktool_out/lib/x86/libcardioRecognizer.so	OK
2024-11-23 15:42:09	Analyzing apktool_out/lib/x86/libopencv_core.so	OK
2024-11-23 15:42:09	Analyzing apktool_out/lib/x86/libcardioRecognizer_tegra2.so	OK
2024-11-23 15:42:09	Analyzing apktool_out/lib/arm64-v8a/libopencv_imgproc.so	ОК
2024-11-23 15:42:09	Analyzing apktool_out/lib/arm64-v8a/libcardioDecider.so	ОК

2024-11-23 15:42:09	Analyzing apktool_out/lib/arm64-v8a/libcardioRecognizer.so	ОК
2024-11-23 15:42:09	Analyzing apktool_out/lib/arm64-v8a/libopencv_core.so	ОК
2024-11-23 15:42:09	Analyzing apktool_out/lib/arm64-v8a/libcardioRecognizer_tegra2.so	OK
2024-11-23 15:42:09	Analyzing apktool_out/lib/x86_64/libopencv_imgproc.so	OK
2024-11-23 15:42:09	Analyzing apktool_out/lib/x86_64/libcardioDecider.so	OK
2024-11-23 15:42:09	Analyzing apktool_out/lib/x86_64/libcardioRecognizer.so	OK
2024-11-23 15:42:09	Analyzing apktool_out/lib/x86_64/libopencv_core.so	ОК
2024-11-23 15:42:09	Analyzing apktool_out/lib/x86_64/libcardioRecognizer_tegra2.so	OK
2024-11-23 15:42:09	Analyzing lib/armeabi-v7a/libopencv_imgproc.so	ОК
2024-11-23 15:42:09	Analyzing lib/armeabi-v7a/libcardioDecider.so	OK
2024-11-23 15:42:09	Analyzing lib/armeabi-v7a/libcardioRecognizer.so	ОК
2024-11-23 15:42:09	Analyzing lib/armeabi-v7a/libopencv_core.so	ОК

2024-11-23 15:42:09	Analyzing lib/armeabi-v7a/libcardioRecognizer_tegra2.so	ОК
2024-11-23 15:42:09	Analyzing lib/x86/libopencv_imgproc.so	ОК
2024-11-23 15:42:09	Analyzing lib/x86/libcardioDecider.so	ОК
2024-11-23 15:42:09	Analyzing lib/x86/libcardioRecognizer.so	ОК
2024-11-23 15:42:09	Analyzing lib/x86/libopencv_core.so	ОК
2024-11-23 15:42:09	Analyzing lib/x86/libcardioRecognizer_tegra2.so	ОК
2024-11-23 15:42:09	Analyzing lib/arm64-v8a/libopencv_imgproc.so	ОК
2024-11-23 15:42:09	Analyzing lib/arm64-v8a/libcardioDecider.so	ОК
2024-11-23 15:42:09	Analyzing lib/arm64-v8a/libcardioRecognizer.so	ОК
2024-11-23 15:42:09	Analyzing lib/arm64-v8a/libopencv_core.so	ОК
2024-11-23 15:42:09	Analyzing lib/arm64-v8a/libcardioRecognizer_tegra2.so	ОК
2024-11-23 15:42:09	Analyzing lib/x86_64/libopencv_imgproc.so	ОК

2024-11-23 15:42:10	Analyzing lib/x86_64/libcardioDecider.so	ОК
2024-11-23 15:42:10	Analyzing lib/x86_64/libcardioRecognizer.so	ОК
2024-11-23 15:42:10	Analyzing lib/x86_64/libopencv_core.so	ОК
2024-11-23 15:42:10	Analyzing lib/x86_64/libcardioRecognizer_tegra2.so	OK
2024-11-23 15:42:10	Reading Code Signing Certificate	OK
2024-11-23 15:42:12	Running APKiD 2.1.5	ОК
2024-11-23 15:42:20	Detecting Trackers	ОК
2024-11-23 15:42:25	Decompiling APK to Java with JADX	ОК
2024-11-23 15:43:33	Converting DEX to Smali	ОК
2024-11-23 15:43:33	Code Analysis Started on - java_source	ОК
2024-11-23 15:43:53	Android SAST Completed	ОК
2024-11-23 15:43:53	Android API Analysis Started	ОК

2024-11-23 15:43:58	Android API Analysis Completed	ОК
2024-11-23 15:43:58	Android Permission Mapping Started	ОК
2024-11-23 15:44:10	Android Permission Mapping Completed	ОК
2024-11-23 15:44:11	Android Behaviour Analysis Started	ОК
2024-11-23 15:44:16	Android Behaviour Analysis Completed	ОК
2024-11-23 15:44:16	Extracting Emails and URLs from Source Code	ОК
2024-11-23 15:44:22	Email and URL Extraction Completed	ОК
2024-11-23 15:44:22	Extracting String data from APK	ОК
2024-11-23 15:44:22	Extracting String data from SO	ОК
2024-11-23 15:44:23	Extracting String data from Code	ОК
2024-11-23 15:44:23	Extracting String values and entropies from Code	ОК
2024-11-23 15:44:28	Performing Malware check on extracted domains	ОК

2024-11-23 15:44:30	Saving to Database	ОК	
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Mobile Security Framework (MobSF) is an automated, all-in-one mobile application (Android/iOS/Windows) pen-testing, malware analysis and security assessment framework capable of performing static and dynamic analysis.

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