

ANDROID STATIC ANALYSIS REPORT



MMGuardian (4.0.14)

| File Name: | base.apk |
|---------------------|--------------------------|
| Package Name: | com.mmguardian.childapp |
| Scan Date: | Aug. 11, 2024, 3:26 p.m. |
| App Security Score: | 45/100 (MEDIUM RISK) |
| Grade: | |
| Trackers Detection: | 7/432 |
| | |

FINDINGS SEVERITY

| ≟ HIGH | ▲ MEDIUM | i INFO | ✓ SECURE | ℚ HOTSPOT |
|---------------|----------|--------|----------|------------------|
| 4 | 23 | 1 | 1 | 1 |

FILE INFORMATION

File Name: base.apk **Size:** 40.69MB

MD5: bdcbb8ca26dbcb8ca12122c689898f26

SHA1: 884cb13f3735d4bc7f8168a46e63bddc9dfb3a02

SHA256: 0c90bd528f364cc43b8ca42d2a725f39522be7e03ba227aa5b2a41e556de0657

i APP INFORMATION

App Name: MMGuardian

Package Name: com.mmguardian.childapp

Main Activity: com.mmguardian.activity.initial_setup.AdminEntryPointActivity

Target SDK: 33 Min SDK: 26 Max SDK:

Android Version Name: 4.0.14

EE APP COMPONENTS

Activities: 77 Services: 31 Receivers: 22 Providers: 5

Exported Activities: 11
Exported Services: 1
Exported Receivers: 2
Exported Providers: 0

***** CERTIFICATE INFORMATION

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

X.509 Subject: CN=zheng zhou

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2011-12-06 05:41:08+00:00 Valid To: 2061-11-23 05:41:08+00:00

Issuer: CN=zheng zhou Serial Number: 0x4eddaaf4 Hash Algorithm: sha1

md5: 27985904ed434e599262e8ab3e9e5333

sha1: 842933609e604063b55c04bbb47763ac7c0fc327

sha256: e638722c10d395c787298b0d803889c711bf6b00d106bf42cbedc6ae23a199d0

sha512: 7d663fd9d9fafdf7a398e301fa8b0acb6c23c02857d495d3cc2eff6b0641f6bea884ce1bde971c982b81f047fdd39cf7cceb59830dc04fc332f71864ed11a0da

PublicKey Algorithm: rsa

Bit Size: 1024

Fingerprint: c1eecf82f6df09078778d7263af34d2c0eba62acdf194305b2ffea730e1d3c40

Found 1 unique certificates

E APPLICATION PERMISSIONS

| PERMISSION | STATUS | INFO | DESCRIPTION |
|--|-----------|---|--|
| android.permission.ANSWER_PHONE_CALLS | dangerous | permits an app to answer incoming phone calls. | Allows the app to answer an incoming phone call. |
| android.permission.READ_PHONE_NUMBERS | dangerous | allows reading of the device's phone number(s). | Allows read access to the device's phone number(s). This is a subset of the capabilities granted by READ_PHONE_STATE but is exposed to instant applications. |
| android.permission.MODIFY_AUDIO_SETTINGS | normal | change your audio settings | Allows application to modify global audio settings, such as volume and routing. |
| android.permission.READ_CONTACTS | dangerous | read contact data | Allows an application to read all of the contact (address) data stored on your phone. Malicious applications can use this to send your data to other people. |
| android.permission.WRITE_CONTACTS | dangerous | write contact data | Allows an application to modify the contact (address) data stored on your phone. Malicious applications can use this to erase or modify your contact data. |

| PERMISSION | STATUS | INFO | DESCRIPTION |
|--------------------------------------|-----------|-------------------------------|--|
| android.permission.CALL_PHONE | dangerous | directly call phone numbers | Allows the application to call phone numbers without your intervention. Malicious applications may cause unexpected calls on your phone bill. Note that this does not allow the application to call emergency numbers. |
| android.hardware.telephony | unknown | Unknown permission | Unknown permission from android reference |
| android.permission.READ_PHONE_STATE | dangerous | read phone state and identity | Allows the application to access the phone features of the device. An application with this permission can determine the phone number and serial number of this phone, whether a call is active, the number that call is connected to and so on. |
| android.permission.ACCESS_WIFI_STATE | normal | view Wi-Fi status | Allows an application to view the information about the status of Wi-Fi. |
| android.permission.CHANGE_WIFI_STATE | normal | change Wi-Fi status | Allows an application to connect to and disconnect from Wi-Fi access points and to make changes to configured Wi-Fi networks. |

| PERMISSION | STATUS | INFO | DESCRIPTION |
|--|-----------|------------------------------------|---|
| android.permission.ACCESS_FINE_LOCATION | dangerous | fine (GPS) location | Access fine location sources, such as the Global Positioning System on the phone, where available. Malicious applications can use this to determine where you are and may consume additional battery power. |
| android.permission.ACCESS_NETWORK_STATE | normal | view network status | Allows an application to view the status of all networks. |
| android.permission.CHANGE_NETWORK_STATE | normal | change network connectivity | Allows applications to change network connectivity state. |
| android.permission.ACCESS_COARSE_LOCATION | dangerous | coarse (network-based) location | Access coarse location sources, such as the mobile network database, to determine an approximate phone location, where available. Malicious applications can use this to determine approximately where you are. |
| android.permission.ACCESS_BACKGROUND_LOCATION | dangerous | access location in background | Allows an app to access location in the background. |
| com.android.launcher.permission.lNSTALL_SHORTCUT | unknown | Unknown permission | Unknown permission from android reference |
| com.android.launcher.permission.UNINSTALL_SHORTCUT | unknown | Unknown permission | Unknown permission from android reference |

| PERMISSION | STATUS | INFO | DESCRIPTION |
|---|-----------|--|---|
| android.permission.READ_PROFILE | dangerous | read the user's personal profile data | Allows an application to read the user's personal profile data. |
| android.permission.VIBRATE | normal | control vibrator | Allows the application to control the vibrator. |
| android.permission.CAMERA | dangerous | take pictures and videos | Allows application to take pictures and videos with the camera. This allows the application to collect images that the camera is seeing at any time. |
| android.permission.READ_EXTERNAL_STORAGE | dangerous | read external storage contents | Allows an application to read from external storage. |
| android.permission.DOWNLOAD_WITHOUT_NOTIFICATION | unknown | Unknown permission | Unknown permission from android reference |
| android.permission.EXPAND_STATUS_BAR | normal | expand/collapse status bar | Allows application to expand or collapse the status bar. |
| android.permission.REQUEST_DELETE_PACKAGES | normal | enables an app to request package deletions. | Allows an application to request deleting packages. |
| 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. |
| com.android.browser.permission.READ_HISTORY_BOOKMARKS | unknown | Unknown permission | Unknown permission from android reference |

| PERMISSION | STATUS | INFO | DESCRIPTION |
|--|-----------|---|---|
| com.android.browser.permission.WRITE_HISTORY_BOOKMARKS | unknown | Unknown permission | Unknown permission from android reference |
| android.permission.WRITE_EXTERNAL_STORAGE | dangerous | read/modify/delete external storage contents | Allows an application to write to external storage. |
| android.permission.INTERNET | normal | full Internet access | Allows an application to create network sockets. |
| android.permission.WAKE_LOCK | normal | prevent phone from sleeping | Allows an application to prevent the phone from going to sleep. |
| android.permission.GET_TASKS | dangerous | retrieve running applications | Allows application to retrieve information about currently and recently running tasks. May allow malicious applications to discover private information about other applications. |
| com.android.vending.BILLING | normal | application has in-app purchases | Allows an application to make inapp purchases from Google Play. |
| android.permission.SYSTEM_ALERT_WINDOW | dangerous | display system-level alerts | Allows an application to show system-alert windows. Malicious applications can take over the entire screen of the phone. |
| android.permission.FOREGROUND_SERVICE | normal | enables regular apps to use Service.startForeground. | Allows a regular application to use Service.startForeground. |

| PERMISSION | STATUS | INFO | DESCRIPTION |
|---|-----------|--|--|
| android.permission.BIND_NOTIFICATION_LISTENER_SERVICE | signature | required by NotificationListenerServices for system binding. | Must be required by an NotificationListenerService, to ensure that only the system can bind to it. |
| android.permission.POST_NOTIFICATIONS | dangerous | allows an app to post notifications. | Allows an app to post notifications |
| android.permission.READ_MEDIA_IMAGES | dangerous | allows reading image files from external storage. | Allows an application to read image files from external storage. |
| android.permission.PACKAGE_USAGE_STATS | signature | update component usage statistics | Allows the modification of collected component usage statistics. Not for use by common applications. |
| android.permission.BIND_ACCESSIBILITY_SERVICE | signature | required by AccessibilityServices for system binding. | Must be required by an AccessibilityService, to ensure that only the system can bind to it. |
| android.permission.SCHEDULE_EXACT_ALARM | normal | permits exact alarm scheduling for background work. | Allows an app to use exact alarm scheduling APIs to perform timing sensitive background work. |
| android.permission.BROADCAST_CLOSE_SYSTEM_DIALOGS | unknown | Unknown permission | Unknown permission from android reference |
| com.mmguardian.permission.PERMISSION1 | unknown | Unknown permission | Unknown permission from android reference |
| com.google.android.c2dm.permission.RECEIVE | normal | recieve push notifications | Allows an application to receive push notifications from cloud. |

| PERMISSION | STATUS | INFO | DESCRIPTION |
|--|--------|-------------------------------------|--|
| com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE | normal | permission defined by google | A custom permission defined by Google. |
| com.google.android.gms.permission.AD_ID | normal | application shows advertisements | This app uses a Google advertising ID and can possibly serve advertisements. |

命 APKID ANALYSIS

| FILE | DETAILS | |
|-------------|-----------------|--|
| | FINDINGS | DETAILS |
| classes.dex | Anti-VM Code | Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.HARDWARE check Build.TAGS check possible VM check |
| | Anti Debug Code | Debug.isDebuggerConnected() check |
| | Compiler | r8 |



| ACTIVITY | INTENT |
|--|-----------------------------|
| com.mmguardian.safebrowser.SafeBrowserActivity | Schemes: http://, https://, |

△ NETWORK SECURITY

| NO SCOPE SEVERITY | DESCRIPTION |
|-------------------|-------------|
|-------------------|-------------|

CERTIFICATE ANALYSIS

HIGH: 1 | WARNING: 0 | INFO: 1

| TITLE | SEVERITY | DESCRIPTION |
|--|----------|--|
| Signed Application | info | Application is signed with a code signing certificate |
| Certificate algorithm vulnerable to hash collision | high | Application is signed with SHA1withRSA. SHA1 hash algorithm is known to have collision issues. |

Q MANIFEST ANALYSIS

HIGH: 0 | WARNING: 16 | INFO: 0 | SUPPRESSED: 0

| NO ISSUE | SEVERITY | DESCRIPTION |
|----------|----------|-------------|
|----------|----------|-------------|

| NO | ISSUE | SEVERITY | DESCRIPTION |
|----|---|----------|--|
| 1 | App can be installed on a vulnerable Android version Android 8.0, minSdk=26] | warning | This application can be installed on an older version of android that has multiple vulnerabilities. Support an Android version => 10, API 29 to receive reasonable security updates. |
| 2 | Activity (com.mmguardian.activity.initial_setup.MessagingAppEntryPointActivity) 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-Alias (com.mmguardian.activity.initial_setup.MessagingAppYellowEntryPointActivity) is not Protected. [android:exported=true] | warning | An Activity-Alias is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. |
| 4 | Activity-Alias (com.mmguardian.activity.initial_setup.MessagingAppRedEntryPointActivity) is not Protected. [android:exported=true] | warning | An Activity-Alias is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. |
| 5 | Activity-Alias (com.mmguardian.activity.initial_setup.MessagingAppPurpleEntryPointActivity) is not Protected. [android:exported=true] | warning | An Activity-Alias is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. |
| 6 | Activity-Alias (com.mmguardian.activity.initial_setup.MessagingAppOrangeEntryPointActivity) is not Protected. [android:exported=true] | warning | An Activity-Alias is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. |
| 7 | Activity-Alias (com.mmguardian.activity.initial_setup.MessagingAppGreenEntryPointActivity) is not Protected. [android:exported=true] | warning | An Activity-Alias 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 |
|----|---|----------|---|
| 8 | Activity-Alias (com.mmguardian.activity.initial_setup.MessagingAppBlueEntryPointActivity) is not Protected. [android:exported=true] | warning | An Activity-Alias is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. |
| 9 | Activity-Alias (com.mmguardian.activity.initial_setup.MessagingAppBlackEntryPointActivity) is not Protected. [android:exported=true] | warning | An Activity-Alias is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. |
| 10 | TaskAffinity is set for activity (com.mmguardian.safebrowser.SafeBrowserActivity) | warning | If taskAffinity is set, then other application could read the Intents sent to Activities belonging to another task. Always use the default setting keeping the affinity as the package name in order to prevent sensitive information inside sent or received Intents from being read by another application. |
| 11 | Activity (com.mmguardian.safebrowser.SafeBrowserActivity) is not Protected. [android:exported=true] | warning | An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. |
| 12 | Activity (com.mmguardian.activity.LockActivityNew) is not Protected. [android:exported=true] | warning | An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. |
| 13 | Activity (com.mmguardian.activity.LockActivityNewAndroidS) 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 | Content Provider (com.mmguardian.util.CoreAppContentProvider) is Protected by a permission. Permission: com.mmguardian.permission.PERMISSION2 protectionLevel: signature [android:exported=true] | info | A Content Provider is found to be exported, but is protected by permission. |

| NO | ISSUE | SEVERITY | DESCRIPTION |
|----|---|----------|--|
| 15 | Broadcast Receiver (com.google.firebase.iid.FirebaseInstanceIdReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.c2dm.permission.SEND [android:exported=true] | warning | A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission. |
| 16 | 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. |
| 17 | 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: 1 | SECURE: 1 | SUPPRESSED: 0

| NO | ISSUE | SEVERITY | STANDARDS | FILES |
|----|-------|----------|-----------|---------------------|
| | | | | a/d/a/a/c.java |
| | | | | a/d/b/k/f.java |
| | | | | a/f/a/a.java |
| | | | | a/h/a/a.java |
| | | | | a/i/a/c.java |
| | | | | a/j/a.java |
| | | | | c/a/a/b/a.java |
| | | | | c/b/a/b/i/y/a.java |
| | | | | c/b/a/d/a/a.java |
| | | | | c/b/a/d/d/c/a6.java |
| | | | | c/b/a/d/d/c/c.java |
| | | | | c/b/a/d/d/c/f.java |
| | | | | c/b/a/d/d/c/k.java |
| | | | | c/b/a/d/d/c/l.java |
| | | | | c/b/a/d/d/c/m.java |
| | | | | c/b/a/d/d/c/m5.java |
| | | | | c/b/a/d/d/c/w5.java |
| | | | | c/b/a/d/d/f/g.java |
| | | | | c/b/a/d/d/f/o2.java |
| | | | | c/b/a/d/d/f/y1.java |
| | | | | c/b/a/d/d/i/a4.java |
| | | | | c/b/a/d/d/i/g.java |
| | | | | c/b/a/d/d/i/g3.java |
| | | | | c/b/a/d/d/i/h0.java |
| | | | | c/b/a/d/d/i/n3.java |
| | | | | c/b/a/d/d/i/p3.java |
| | | | | c/b/a/d/d/i/u3.java |
| | | | | c/b/a/d/d/i/u4.java |
| | | | | c/b/a/d/d/i/u5.java |
| | | | | c/b/a/d/d/i/v3.java |
| | | | | c/b/a/d/d/i/w3.java |
| | | | | c/b/a/d/d/i/yb.java |

| | | | | Crbrarururkrk.java |
|-----|---------------------------------------|----------|--|---|
| NO | ISSUE | SEVERITY | STANDARDS | F/b/a/d/n/d.java c/b/a/d/d/n/h.java |
| | | | | c/b/a/d/d/n/w5.java |
| | | | | c/b/a/d/g/a.java |
| | | | | c/b/a/d/h/b/a.java |
| | | | | com/mmguardian/activity/LockActivity.java |
| | | | | com/mmguardian/activity/MonitorActivity.jav |
| | | | | a |
| | | | | com/mmguardian/activity/PanicActivity.java |
| | | | | com/mmguardian/activity/UninstallProtection |
| | | | | Activity_4_Step.java |
| | | | | com/mmguardian/activity/UnlockActivity.java |
| | | | | com/mmguardian/activity/UserRegisterationA |
| | | | | ctivity.java |
| | | | | com/mmguardian/activity/feature/adultimage |
| | | | | detection/e.java |
| | | | | com/mmguardian/activity/feature/app/Admin |
| | | | | ApplicationContActivity.java |
| | | | | com/mmguardian/activity/feature/contact/Typ |
| | | | | elnNumberActivity.java |
| | | | | com/mmguardian/activity/feature/geozone/Cr |
| | | | | eateGeoZoneActivity.java |
| | | | | com/mmguardian/activity/feature/lockunlock/ b.java |
| | | | | com/mmguardian/activity/help/LockAllowedC ontactsActivity.java |
| | | | | com/mmguardian/activity/help/TimeLimitsAct |
| | | | | ivity.java |
| | | | | com/mmguardian/activity/help/k.java |
| | | | | com/mmguardian/activity/help/m.java |
| | | | | com/mmguardian/b/a.java |
| | | | | com/mmguardian/b/c.java |
| | | | | com/mmguardian/b/d.java |
| | | | | com/mmguardian/b/f/b.java |
| | | | | com/mmguardian/b/f/c.java |
| | | | | com/mmguardian/b/f/d.java |
| | | | | com/mmguardian/b/f/e.java |
| | | | | com/mmguardian/b/f/f.java |
| | | | | com/mmguardian/billing/BillingReceiver.java |
| | The App logs information. Sensitive | | CWE: CWE-532: Insertion of Sensitive | com/mmguardian/billing/BillingService.java |
| l 4 | THE APP 1082 ILLIOTHALIOH, SELISILIVE | + . e. | in the construction of the end of | |

| 1 | information should never be logged. | imo | miormation into Log File | com/mmguardian/pilling/c.java |
|-----|-------------------------------------|----------|--------------------------|--|
| NO | ISSUE | SEVERITY | SYANDARYS:MSTG-STORAGE-3 | ကျော်ကျောguardian/billing/h.java |
| | | | | com/mmguardian/billing/j/h.java |
| | | | | com/mmguardian/broadcaster/DeviceAdminS |
| | | | | ample.java |
| | | | | com/mmguardian/broadcaster/IncomingCallR |
| | | | | eceiver.java |
| | | | | com/mmguardian/broadcaster/LocationTracki |
| | | | | ngBroadcastReceiver.java |
| | | | | com/mmguardian/broadcaster/d.java |
| | | | | com/mmguardian/broadcaster/feature/GeoZo |
| | | | | neBR.java |
| | | | | com/mmguardian/broadcaster/feature/TimeR |
| | | | | estControllerBR.java |
| | | | | com/mmguardian/c/c.java |
| | | | | com/mmguardian/c/p.java |
| | | | | com/mmguardian/c/s.java |
| | | | | com/mmguardian/dexmodule/thirdpartymon/ |
| | | | | notificationhelper/BaseNotificationHelper.java |
| | | | | com/mmguardian/dexmodule/thirdpartymon/ |
| | | | | notificationhelper/MessagesNotificationHelper |
| | | | | .java |
| | | | | com/mmguardian/dexmodule/thirdpartymon/ |
| | | | | util/MyLogger.java |
| | | | | com/mmguardian/h/a.java |
| | | | | com/mmguardian/h/e.java |
| | | | | com/mmguardian/i/b.java |
| | | | | com/mmguardian/j/a/b.java |
| | | | | com/mmguardian/j/a/f/d.java |
| | | | | com/mmguardian/j/a/h/a.java |
| | | | | com/mmguardian/j/a/h/b.java |
| | | | | com/mmguardian/j/a/h/c.java |
| | | | | com/mmguardian/l/b/a.java |
| | | | | com/mmguardian/l/b/b.java |
| | | | | com/mmguardian/l/b/c.java |
| | | | | com/mmguardian/l/b/f.java |
| | | | | com/mmguardian/l/b/g.java |
| | | | | com/mmguardian/l/b/h.java |
| | | | | com/mmguardian/safebrowser/e.java |
| | | | | com/mmguardian/safebrowser/f0.java |
| | | | | com/mmguardian/safebrowser/g.java |
| 1 ! | | 1 | | 1 |

| NO ISSUE SEVERITY STANDARDS Programguardian/safebrowser/ com/mmguardian/safebrowser/ com/mmguardian/safebrowser/ com/mmguardian/safebrowser/ com/mmguardian/safebrowser/ com/mmguardian/safebrowser/ com/mmguardian/safebrowser/ com/mmguardian/safebrowser/ com/mmguardian/safebrowser/ com/mmguardian/service/Broad BackendService.java com/mmguardian/service/Monit com/mmguardian/service/b.java com/mmguardian/service/b.java com/mmguardian/service/b.java com/mmguardian/service/b.java com/mmguardian/vitil/p.java com/mmguardian/vitil/p.java com/mmguardian/supportv7/mms/f mmguardian/supportv7/mms/f | J.java |
|--|---------------|
| com/mnguardian/safebrowser/ com/mnguardian/safebrowser/ com/mnguardian/safebrowser/ com/mnguardian/service/Broad BackendService.java com/mmguardian/service/Featu vice.java com/mmguardian/service/Monit com/mmguardian/service/Monit com/mmguardian/service/Monit ectingService.java com/mmguardian/service/b.java com/mmguardian/service/d.java com/mmguardian/service/d.java com/mmguardian/util/c.java com/mmguardian/vitil/c.java com/mmguardian/vitil/c.java com/mmguardian/vitil/c.java com/mmguardian/vitil/spava com/mmguardian/support/v7/mms/f wa mmguardian/support/v7/mms/f | |
| com/mmguardian/safebrowser/ com/mmguardian/safebrowser/ com/mmguardian/service/Broad BackendService;ava com/mmguardian/service/Featu vice,java com/mmguardian/service/Monit com/mmguardian/service/Wind- ectingService,java com/mmguardian/service/b,java com/mmguardian/service/d,java com/mmguardian/service/d,java com/mmguardian/vili/p,java com/mmguardian/vili/p,java com/mmguardian/support/v7/mms/f va mmguardian/support/v7/mms/f | |
| com/mmguardian/safebrowser/ com/mmguardian/service/Broad BackendService.java com/mmguardian/service/Featu vice.java com/mmguardian/service/Monit com/mmguardian/service/WindetingService.java com/mmguardian/service/b.java com/mmguardian/service/d.java com/mmguardian/service/d.java com/mmguardian/util/c0.java com/mmguardian/util/c0.java com/mmguardian/view/SwipeReva mmguardian/support/v7/mms/f va mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f | - |
| com/mmguardian/service/Broad BackendService.java com/mmguardian/service/Featu vice.java com/mmguardian/service/Monit com/mmguardian/service/Wind ectingService.java com/mmguardian/service/b.java com/mmguardian/service/d.java com/mmguardian/util/O.java com/mmguardian/util/O.java com/mmguardian/view/SwipeRe va mmguardian/support/v7/mms/f wmguardian/support/v7/mms/f mmguardian/support/v7/mms/f | - |
| BackendService.java com/mmguardian/service/Featu vice.java com/mmguardian/service/Monit com/mmguardian/service/Wind- ectingService.java com/mmguardian/service/b.java com/mmguardian/service/d.java com/mmguardian/service/d.java com/mmguardian/util/c0.java com/mmguardian/view/SwipeRe va mmguardian/support/v7/mms/f va mmguardian/support/v7/mms/f | - |
| com/mmguardian/service/Featu vice.java com/mmguardian/service/Windi com/mmguardian/service/Windi ectingService.java com/mmguardian/service/b.java com/mmguardian/service/b.java com/mmguardian/service/b.java com/mmguardian/util/c0.java com/mmguardian/util/c0.java com/mmguardian/view/SwipeRe va mmguardian/support/v7/mms/f va mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f | lastReceiver |
| vice.java com/mmguardian/service/Monit com/mmguardian/service/Windi ectingService.java com/mmguardian/service/b.java com/mmguardian/service/d.java com/mmguardian/util/c0.java com/mmguardian/util/c0.java com/mmguardian/view/SwipeRe va mmguardian/support/v7/mms/f va mmguardian/support/v7/mms/f | |
| com/mmguardian/service/Monit com/mmguardian/service/WindiectingService.java com/mmguardian/service/b.java com/mmguardian/service/d.java com/mmguardian/util/c0.java com/mmguardian/util/c0.java com/mmguardian/util/p.java com/mmguardian/view/SwipeReva com/mmguardian/support/v7/mms/fiva mmguardian/support/v7/mms/fiva mmguardian/support/v7/mms/ | MonitorSer |
| com/mmguardian/service/WindlectingService.java com/mmguardian/service/b.java com/mmguardian/service/d.java com/mmguardian/util/c0.java com/mmguardian/util/p.java com/mmguardian/view/SwipeReva va mmguardian/support/v7/mms/fva mmguardian/support/v7/mms/fy mmguardian/support/v7/mms/fy mmguardian/support/v7/mms/fy mmguardian/support/v7/mms/fy mmguardian/support/v7/mms/fy mmguardian/support/v7/mms/fy mmguardian/support/v7/mms/fy mmguardian/support/v7/mms/fy mmguardian/support/v7/mms/fy | rService.iava |
| ectingService.java com/mmguardian/service/b.java com/mmguardian/service/d.java com/mmguardian/util/c0.java com/mmguardian/util/p.java com/mmguardian/view/SwipeRe va mmguardian/support/v7/mms/f va mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f | - |
| com/mmguardian/service/b.java com/mmguardian/service/d.java com/mmguardian/util/c0.java com/mmguardian/util/p.java com/mmguardian/view/SwipeRe va mmguardian/support/v7/mms/f va mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f | J |
| com/mmguardian/service/d.java com/mmguardian/util/c0.java com/mmguardian/vtil/p.java com/mmguardian/view/SwipeRe va mmguardian/support/v7/mms/f va mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f | |
| com/mmguardian/util/c0.java com/mmguardian/util/p.java com/mmguardian/view/SwipeRe va mmguardian/support/v7/mms/f va mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f | |
| com/mmguardian/view/SwipeRevalum va mmguardian/support/v7/mms/N va mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/i mmguardian/support/v7/mms/i mmguardian/support/v7/mms/i | |
| va mmguardian/support/v7/mms/N va mmguardian/support/v7/mms/f mmguardian/support/v7/mms/f mmguardian/support/v7/mms/i mmguardian/support/v7/mms/i mmguardian/support/v7/mms/i | |
| mmguardian/support/v7/mms/Nva mmguardian/support/v7/mms/Nmguardian/su | yclerView.ja |
| va mmguardian/support/v7/mms/f mmguardian/support/v7/mms/g mmguardian/support/v7/mms/i mmguardian/support/v7/mms/i mmguardian/support/v7/mms/l | |
| mmguardian/support/v7/mms/f mmguardian/support/v7/mms/g mmguardian/support/v7/mms/i mmguardian/support/v7/mms/i mmguardian/support/v7/mms/l | msService.ja |
| mmguardian/support/v7/mms/g mmguardian/support/v7/mms/i mmguardian/support/v7/mms/i mmguardian/support/v7/mms/i | |
| mmguardian/support/v7/mms/l mmguardian/support/v7/mms/l mmguardian/support/v7/mms/l | ava |
| mmguardian/support/v7/mms/immguardian/support/w7/mms/immguardian/support/w7 | ava |
| mmguardian/support/v7/mms/l | |
| | |
| mmguardian/support/v7/mms/r | |
| | - |
| mmguardian/support/v7/mms/r | |
| mmguardian/support/v7/mms/c | |
| mmguardian/support/v7/mms/p | |
| mmguardian/support/v7/mms/r | |
| mmguardian/support/v7/mms/s | - |
| mmguardian/support/v7/mms/s | o.java |

| NO | ISSUE | SEVERITY | STANDARDS | FILES |
|----|--|----------|--|---|
| 2 | App uses SQLite Database and execute raw SQL query. Untrusted user input in raw SQL queries can cause SQL Injection. Also sensitive information should be encrypted and written to the database. | warning | CWE: CWE-89: Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') OWASP Top 10: M7: Client Code Quality | a/i/a/g/a.java c/b/a/b/i/a0/j/a0.java c/b/a/b/i/a0/j/r0.java c/b/a/b/i/a0/j/t0.java c/b/a/b/i/a0/j/t0.java com/mmguardian/billing/c.java com/mmguardian/d/a.java com/mmguardian/safebrowser/e.java com/mmguardian/safebrowser/k.java com/mmguardian/safebrowser/l.java com/mmguardian/safebrowser/l.java com/mmguardian/safebrowser/n.java com/mmguardian/util/CoreAppContentProvid er.java |
| 3 | SHA-1 is a weak hash known to have hash collisions. | warning | CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4 | com/mmguardian/billing/h.java com/mmguardian/billing/i.java com/mmguardian/billing/j/h.java com/mmguardian/dexmodule/thirdpartymon/ service/helper/WhatsAppWindowCallPageHelp er.java com/mmguardian/dexmodule/thirdpartymon/ util/Util.java com/mmguardian/util/v.java |
| 4 | 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 | com/mmguardian/activity/feature/contact/j.ja va com/mmguardian/activity/feature/contact/m.j ava com/mmguardian/activity/phone_app_setup/ mmg_phone_wizard/k.java com/mmguardian/activity/wizard/l.java com/mmguardian/activity/wizard/n.java com/mmguardian/c/n.java com/mmguardian/service/d.java |

| NO | ISSUE | SEVERITY | STANDARDS | FILES |
|----|--|----------|--|---|
| 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 | c/b/a/d/d/i/h0.java com/mmguardian/broadcaster/AppUsageBroa dcastReceiver.java com/mmguardian/broadcaster/PowerOffBroa dCastReceiver.java com/mmguardian/broadcaster/feature/TimeR estControllerBR.java com/mmguardian/h/c.java com/mmguardian/i/b.java com/mmguardian/safebrowser/f0.java com/mmguardian/safebrowser/h0.java |
| 6 | MD5 is a weak hash known to have hash collisions. | warning | CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4 | com/mmguardian/util/n.java |
| 7 | 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/mmguardian/activity/feature/webfilter/UrlToCategoryMappings.javacom/mmguardian/bo/PendingCommandsToServerList.javacom/mmguardian/dexmodule/AnalyzeTextCategory.javacom/mmguardian/dexmodule/thirdpartymon/service/helper/GoogleMessagesHelper.javacom/mmguardian/dexmodule/thirdpartymon/util/AppsStringDataUtils.java |
| 8 | 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/mmguardian/j/a/g/a.java com/mmguardian/safebrowser/h0.java |
| 9 | This App may have root detection capabilities. | secure | OWASP MASVS: MSTG-RESILIENCE-1 | c/b/a/d/d/i/a4.java |

| NO | ISSUE | SEVERITY | STANDARDS | FILES |
|----|--|----------|---|---|
| 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/mmguardian/activity/feature/app/appco ntrol3/ApplicationController3Activity.java com/mmguardian/c/s.java com/mmguardian/service/d.java |

SHARED LIBRARY BINARY ANALYSIS

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

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|--------------------------|---|---|--|---|---|---|--------------------------------------|
| 1 | mips64/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|--|---|---|---|---|---|---|--------------------------------------|
| 2 | armeabi- v7a/libtensorflowlite_jni.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | Partial RELRO warning This shared object has partial RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In partial RELRO, the non-PLT part of the GOT section is read only but .got.plt is still writeable. Use the option - z,relro,- z,now to enable full RELRO. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|-----------------------------------|---|---|--|---|---|---|--------------------------------------|
| 3 | armeabi- v7a/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|---------------------------------|---|---|---|---|---|---|--------------------------------------|
| 4 | x86_64/libtensorflowlite_jni.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | Partial RELRO warning This shared object has partial RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In partial RELRO, the non-PLT part of the GOT section is read only but .got.plt is still writeable. Use the option - z,relro,- z,now to enable full RELRO. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|--------------------------|---|---|--|---|---|---|--------------------------------------|
| 5 | x86_64/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|--|---|---|---|---|---|---|--------------------------------------|
| 6 | arm64- v8a/libtensorflowlite_jni.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | Partial RELRO warning This shared object has partial RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In partial RELRO, the non-PLT part of the GOT section is read only but .got.plt is still writeable. Use the option - z,relro,- z,now to enable full RELRO. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|-----------------------------|---|---|--|---|---|---|--------------------------------------|
| 7 | arm64-v8a/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|------------------------------|---|---|---|---|---|---|--------------------------------------|
| 8 | x86/libtensorflowlite_jni.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | Partial RELRO warning This shared object has partial RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In partial RELRO, the non-PLT part of the GOT section is read only but .got.plt is still writeable. Use the option - z,relro,- z,now to enable full RELRO. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|-----------------------|---|---|--|---|---|---|--------------------------------------|
| 9 | x86/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|---------------------------|---|---|--|---|---|---|--------------------------------------|
| 10 | armeabi/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|------------------------|---|---|--|---|---|---|--------------------------------------|
| 11 | mips/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|--------------------------|---|---|--|---|---|---|--------------------------------------|
| 12 | mips64/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|--|---|---|---|---|---|---|--------------------------------------|
| 13 | armeabi- v7a/libtensorflowlite_jni.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | Partial RELRO warning This shared object has partial RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In partial RELRO, the non-PLT part of the GOT section is read only but .got.plt is still writeable. Use the option - z,relro,- z,now to enable full RELRO. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|-----------------------------------|---|---|--|---|---|---|--------------------------------------|
| 14 | armeabi- v7a/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|---------------------------------|---|---|---|---|---|---|--------------------------------------|
| 15 | x86_64/libtensorflowlite_jni.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | Partial RELRO warning This shared object has partial RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In partial RELRO, the non-PLT part of the GOT section is read only but .got.plt is still writeable. Use the option - z,relro,- z,now to enable full RELRO. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|--------------------------|---|---|--|---|---|---|--------------------------------------|
| 16 | x86_64/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|--|---|---|---|---|---|---|--------------------------------------|
| 17 | arm64- v8a/libtensorflowlite_jni.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | Partial RELRO warning This shared object has partial RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In partial RELRO, the non-PLT part of the GOT section is read only but .got.plt is still writeable. Use the option - z,relro,- z,now to enable full RELRO. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|-----------------------------|---|---|--|---|---|---|--------------------------------------|
| 18 | arm64-v8a/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|------------------------------|---|---|---|---|---|---|--------------------------------------|
| 19 | x86/libtensorflowlite_jni.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | Partial RELRO warning This shared object has partial RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In partial RELRO, the non-PLT part of the GOT section is read only but .got.plt is still writeable. Use the option - z,relro,- z,now to enable full RELRO. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|-----------------------|---|---|--|---|---|---|--------------------------------------|
| 20 | x86/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|---------------------------|---|---|--|---|---|---|--------------------------------------|
| 21 | armeabi/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | SHARED OBJECT | NX | STACK CANARY | RELRO | RPATH | RUNPATH | FORTIFY | SYMBOLS STRIPPED |
|----|------------------------|---|---|--|---|---|---|--------------------------------------|
| 22 | mips/libbdpush_V2_6.so | True info The binary has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable. | 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. | False warning Symbols are available. |

| NO | IDENTIFIER | REQUIREMENT | FEATURE | DESCRIPTION |
|----|------------|-------------|---------|-------------|
| | | | | |

***: ::** ABUSED PERMISSIONS

| TYPE | MATCHES | PERMISSIONS |
|--------------------------------|---------|--|
| Malware Permissions | 15/24 | android.permission.READ_CONTACTS, android.permission.READ_PHONE_STATE, android.permission.ACCESS_WIFI_STATE, android.permission.ACCESS_FINE_LOCATION, android.permission.ACCESS_NETWORK_STATE, android.permission.ACCESS_COARSE_LOCATION, android.permission.VIBRATE, android.permission.CAMERA, android.permission.READ_EXTERNAL_STORAGE, android.permission.RECEIVE_BOOT_COMPLETED, android.permission.WRITE_EXTERNAL_STORAGE, android.permission.INTERNET, android.permission.WAKE_LOCK, android.permission.GET_TASKS, android.permission.SYSTEM_ALERT_WINDOW |
| Other Common Permissions | 12/45 | android.permission.MODIFY_AUDIO_SETTINGS, android.permission.WRITE_CONTACTS, android.permission.CALL_PHONE, android.permission.CHANGE_WIFI_STATE, android.permission.CHANGE_NETWORK_STATE, android.permission.ACCESS_BACKGROUND_LOCATION, com.android.launcher.permission.INSTALL_SHORTCUT, android.permission.FOREGROUND_SERVICE, android.permission.PACKAGE_USAGE_STATS, com.google.android.c2dm.permission.RECEIVE, com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE, com.google.android.gms.permission.AD_ID |

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

Q DOMAIN MALWARE CHECK

| DOMAIN | STATUS | GEOLOCATION |
|---|--------|--|
| thor.komodia.com | ok | IP: 207.182.136.170 Country: United States of America Region: Ohio City: Columbus Latitude: 40.079235 Longitude: -82.940567 View: Google Map |
| api-project-321561395509.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 |
| rodimus.komodia.com | ok | IP: 223.252.24.17 Country: Australia Region: New South Wales City: Tuggerah Latitude: -33.316669 Longitude: 151.416672 View: Google Map |

| DOMAIN | STATUS | GEOLOCATION |
|---------------------|--------|--|
| google.com | ok | IP: 142.250.180.238 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map |
| www.facebook.com | ok | IP: 157.240.234.35 Country: Netherlands Region: Noord-Holland City: Amsterdam Latitude: 52.374031 Longitude: 4.889690 View: Google Map |
| maps.google.com | ok | IP: 142.250.180.238 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map |
| optimus.komodia.com | ok | IP: 78.110.173.202 Country: United Kingdom of Great Britain and Northern Ireland Region: England City: London Latitude: 51.508530 Longitude: -0.125740 View: Google Map |

| DOMAIN | STATUS | GEOLOCATION |
|-----------------------|--------|--|
| goo.gl | ok | IP: 142.251.208.110 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map |
| www.youtube.com | ok | IP: 142.251.208.142 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map |
| family.mmguardian.com | ok | IP: 142.251.39.83 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map |
| zt68s.app.goo.gl | ok | IP: 142.251.208.174 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map |

| DOMAIN | STATUS | GEOLOCATION |
|-----------------------|--------|---|
| app-measurement.com | ok | IP: 142.250.180.238 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map |
| portal.mmguardian.com | ok | IP: 142.251.39.83 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map |
| www.mmguardian.com | ok | IP: 104.16.151.108 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map |
| play.google.com | ok | IP: 142.250.180.206 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map |

| DOMAIN | STATUS | GEOLOCATION |
|-----------------|--------|---|
| www.gstatic.com | ok | IP: 142.250.180.227 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map |
| ns.adobe.com | ok | No Geolocation information available. |

FIREBASE DATABASES

| FIREBASE URL | DETAILS |
|---|---|
| https://api-project-321561395509.firebaseio.com | info App talks to a Firebase Database. |

EMAILS

| EMAIL | FILE |
|------------------------|-------------------------------|
| sales@mmguardian.com | com/mmguardian/c/e0.java |
| gptest@mmguardian.com | com/mmguardian/service/d.java |
| support@mmguardian.com | Android String Resource |



| 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 |
| Google AdMob | Advertisement | https://reports.exodus-privacy.eu.org/trackers/312 |
| Google Analytics | Analytics | https://reports.exodus-privacy.eu.org/trackers/48 |
| Google CrashLytics | Crash reporting | https://reports.exodus-privacy.eu.org/trackers/27 |
| Google Firebase Analytics | Analytics | https://reports.exodus-privacy.eu.org/trackers/49 |
| Google Tag Manager | Analytics | https://reports.exodus-privacy.eu.org/trackers/105 |

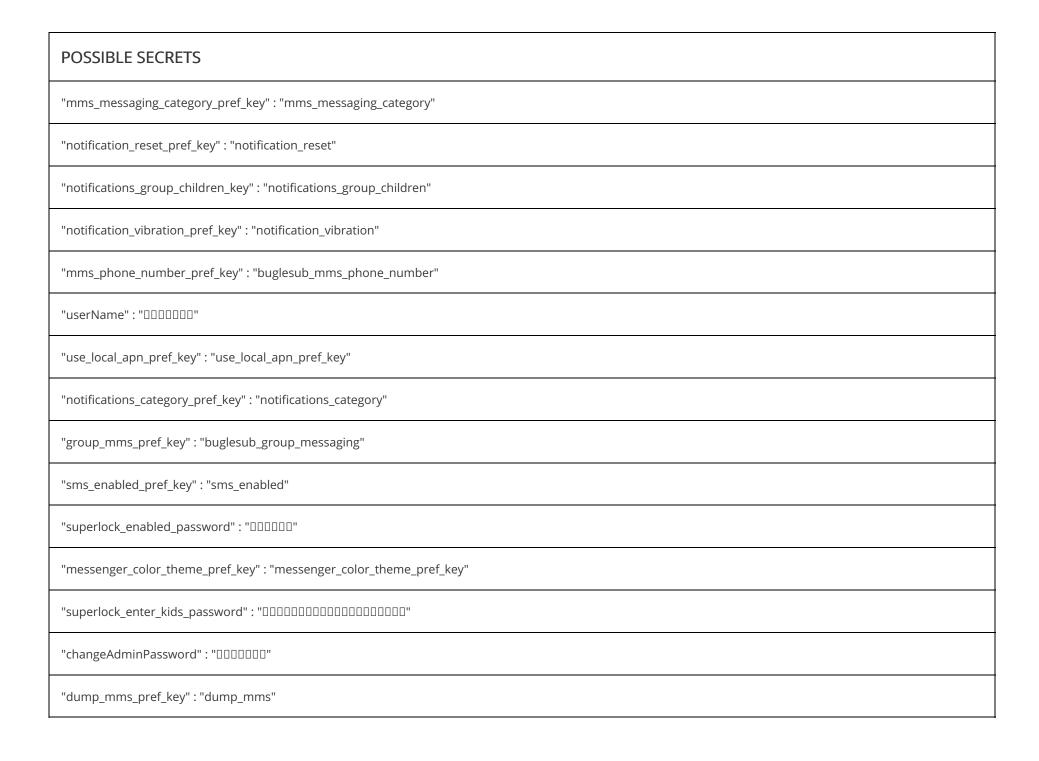
HARDCODED SECRETS

POSSIBLE SECRETS

 $"google_crash_reporting_api_key": "AlzaSyCD6-onx84U2NrBm_AAwkeu74cZXOteULQ"$

"adminPassword": "DDDDD"

"regPassword" : "Senha"





| POSSIBLE SECRETS |
|--|
| "sms_disabled_pref_key" : "sms_disabled" |
| "wireless_alerts_key" : "buglesub_wireless_alerts_key" |
| "sms_apns_key" : "sms_apns_key" |
| "dump_sms_pref_key" : "dump_sms" |
| "regPassword" : "Password" |
| "apn_list_pref_key" : "buglesub_apn_list" |
| "regPassword":" "" "" |
| "send_sound_pref_key": "send_sound" |
| "google_api_key" : "AlzaSyCD6-onx84U2NrBm_AAwkeu74cZXOteULQ" |
| 5e8f16062ea3cd2c4a0d547876baa6f38cabf625 |
| a4b7452e2ed8f5f191058ca7bbfd26b0d3214bfc |
| 12345678900987654321123456789012 |
| 9b8f518b086098de3d77736f9458a3d2f6f95a37 |
| df6b721c8b4d3b6eb44c861d4415007e5a35fc95 |
| 8a3c4b262d721acd49a4bf97d5213199c86fa2b9 |

POSSIBLE SECRETS

cc2751449a350f668590264ed76692694a80308a

c103703e120ae8cc73c9248622f3cd1e

2438bce1ddb7bd026d5ff89f598b3b5e5bb824b3

470fa2b4ae81cd56ecbcda9735803434cec591fa

49f946663a8deb7054212b8adda248c6



> PLAYSTORE INFORMATION

Title: MMGuardian Child Phone App

Score: 1.7852942 Installs: 1,000,000+ Price: 0 Android Version Support: Category: Tools Play Store URL: com.mmguardian.childapp

Developer Details: MMGuardian.com, 6277956700908348398, 78 John Miller Way, Suite 326-HD, Kearny NJ 07032, https://www.mmguardian.com? utm source=playstore&utm medium=referral&utm content=parental control new, support@mmguardian.com,

Release Date: Dec 5, 2014 Privacy Policy: Privacy link

Description:

MMGuardian Parental Control app gives parents the ability to set up parental control and us AI to monitor inappropriate pictures, social media, websites, location and much more. MMGuardian helps parents to protect their child from: * cyber predators(grooming, sextortion) * cyberbullying * drug abuse * violence * suicide ideation * sexting and stay in the know about their phone usage habits. Parents can set up comprehensive parental controls and monitoring on their child's Android phone. MMGuardian can also monitor picture messages, soical media messages, apps, contacts among other parental control features. Note: The app uses Android AccessibilityService API to implement some of the core features: 1. It collects App Usage Data to enable app monitoring and app blocking. 2. It collects Web Browsing History to implement web filtering and monitor. 3. It collects selected Social Media Message Data to implement child safety alerts and message reports on popular messaging apps. MMGuardian is a monitoring app for parents to keep their kids safe, and shall not be used to monitor anyone else even with their permission. MMGuardian is not a spying app. How To Keep Your Teen Safe • Download the MMGuardian Parental Control App to your child's smartphone, and launch the app. • Register the app, and follow the in-app guidance to set up the app. • Configure the functions to your requirements and receive reports at the MMGuardian Parent Web Portal or the dedicated Parent App app for the parent's phone: https://play.google.com/store/apps/details?id=com.mmguardian.parentapp The app includes a range of Parental Control functions specifically designed for parents to be able to: * Take advantage of the latest advances in Artificial Intelligence (AI) to be alerted when a

potentially inappropriate image is detected as having been exchanged in an MMS picture message, or stored on your child's phone. ★ Receive specific alerts when the content of your child's social chat messages may indicate cyberbullying, violence, suicidal thoughts, and more. Additional Functions The MMGuardian Parental Control app also includes optional functions enabling parents to: Locate your child's phone Block and monitor phone calls Limit screen time with a comprehensive App Control function Lock the phone at pre-defined times Enforce safe browsing with an advanced Web Filtering function. Uninstall Protection • The MMGuardian Uninstall Protection function hinders kids from removing or tampering with the app. • If Uninstall Protection function has been enabled, the app's Device Administrator status must first be disabled in order to uninstall the app. • To uninstall the app the easy way: open the app, enter your parent admin password and tap on the trash can icon at the top. Watch our video on YouTube for how to install and register the app on your child's phone: https://youtu.be/6CiZlvs9ObY Free 14 Day Trial All features are fully functional for the free 14-day trial period, after which continued use requires a subscription or license to be purchased. No purchase is required to activate the free trial. Single phone subscriptions are available at USD \$4.99 monthly or USD \$49.99 annually. Family plans covering up to 5 devices are available at twice the single phone price. Download today and help keep your teen safe with MMGuardian. PLEASE NOTE: This app uses the Device Administrator permission. This app uses Accessibility Service. This app uses Location "in the background" (when the app is not open) so that parents may obtain the location of their child's phone. For more information please visit our website: https://www.mmguardian.com

⋮≡ SCAN LOGS

| Timestamp | Event | Error |
|---------------------|--|-------|
| 2024-08-11 15:26:33 | Generating Hashes | ОК |
| 2024-08-11 15:26:33 | Extracting APK | ОК |
| 2024-08-11 15:26:33 | Unzipping | ОК |
| 2024-08-11 15:26:33 | Getting Hardcoded Certificates/Keystores | ОК |
| 2024-08-11 15:26:36 | Parsing AndroidManifest.xml | ОК |

| 2024-08-11 15:26:36 | Parsing APK with androguard | ОК |
|---------------------|---|----|
| 2024-08-11 15:26:37 | Extracting Manifest Data | ОК |
| 2024-08-11 15:26:37 | Performing Static Analysis on: MMGuardian (com.mmguardian.childapp) | ОК |
| 2024-08-11 15:26:37 | Fetching Details from Play Store: com.mmguardian.childapp | ОК |
| 2024-08-11 15:26:37 | Manifest Analysis Started | ОК |
| 2024-08-11 15:26:37 | Checking for Malware Permissions | ОК |
| 2024-08-11 15:26:37 | Fetching icon path | ОК |
| 2024-08-11 15:26:37 | Library Binary Analysis Started | ок |
| 2024-08-11 15:26:37 | Analyzing lib/mips64/libbdpush_V2_6.so | ок |
| 2024-08-11 15:26:38 | Analyzing lib/armeabi-v7a/libtensorflowlite_jni.so | ОК |
| 2024-08-11 15:26:38 | Analyzing lib/armeabi-v7a/libbdpush_V2_6.so | ОК |

| 2024-08-11 15:26:38 | Analyzing lib/x86_64/libtensorflowlite_jni.so | ОК |
|---------------------|--|----|
| 2024-08-11 15:26:38 | Analyzing lib/x86_64/libbdpush_V2_6.so | ОК |
| 2024-08-11 15:26:38 | Analyzing lib/arm64-v8a/libtensorflowlite_jni.so | ОК |
| 2024-08-11 15:26:38 | Analyzing lib/arm64-v8a/libbdpush_V2_6.so | ОК |
| 2024-08-11 15:26:38 | Analyzing lib/x86/libtensorflowlite_jni.so | ОК |
| 2024-08-11 15:26:38 | Analyzing lib/x86/libbdpush_V2_6.so | ОК |
| 2024-08-11 15:26:38 | Analyzing lib/armeabi/libbdpush_V2_6.so | ОК |
| 2024-08-11 15:26:38 | Analyzing lib/mips/libbdpush_V2_6.so | ОК |
| 2024-08-11 15:26:38 | Analyzing apktool_out/lib/mips64/libbdpush_V2_6.so | ОК |
| 2024-08-11 15:26:39 | Analyzing apktool_out/lib/armeabi-v7a/libtensorflowlite_jni.so | ОК |
| 2024-08-11 15:26:39 | Analyzing apktool_out/lib/armeabi-v7a/libbdpush_V2_6.so | ОК |

| 2024-08-11 15:26:39 | Analyzing apktool_out/lib/x86_64/libtensorflowlite_jni.so | ОК |
|---------------------|--|----|
| 2024-08-11 15:26:39 | Analyzing apktool_out/lib/x86_64/libbdpush_V2_6.so | ОК |
| 2024-08-11 15:26:39 | Analyzing apktool_out/lib/arm64-v8a/libtensorflowlite_jni.so | ОК |
| 2024-08-11 15:26:39 | Analyzing apktool_out/lib/arm64-v8a/libbdpush_V2_6.so | ОК |
| 2024-08-11 15:26:39 | Analyzing apktool_out/lib/x86/libtensorflowlite_jni.so | ОК |
| 2024-08-11 15:26:39 | Analyzing apktool_out/lib/x86/libbdpush_V2_6.so | ОК |
| 2024-08-11 15:26:39 | Analyzing apktool_out/lib/armeabi/libbdpush_V2_6.so | ОК |
| 2024-08-11 15:26:39 | Analyzing apktool_out/lib/mips/libbdpush_V2_6.so | ОК |
| 2024-08-11 15:26:39 | Reading Code Signing Certificate | ОК |
| 2024-08-11 15:26:40 | Running APKiD 2.1.5 | ОК |
| 2024-08-11 15:26:42 | Detecting Trackers | ОК |

| 2024-08-11 15:26:43 | Decompiling APK to Java with jadx | ОК |
|---------------------|--|----|
| 2024-08-11 15:27:00 | Converting DEX to Smali | ОК |
| 2024-08-11 15:27:00 | Code Analysis Started on - java_source | ОК |
| 2024-08-11 15:27:18 | Android SAST Completed | ОК |
| 2024-08-11 15:27:18 | Android API Analysis Started | ОК |
| 2024-08-11 15:27:36 | Android Permission Mapping Started | ок |
| 2024-08-11 15:28:13 | Android Permission Mapping Completed | ок |
| 2024-08-11 15:28:18 | Finished Code Analysis, Email and URL Extraction | ОК |
| 2024-08-11 15:28:18 | Extracting String data from APK | ок |
| 2024-08-11 15:28:20 | Extracting String data from SO | ок |
| 2024-08-11 15:28:20 | Extracting String data from Code | ОК |

| 2024-08-11 15:28:20 | Extracting String values and entropies from Code | OK |
|---------------------|--|----|
| 2024-08-11 15:28:25 | Performing Malware check on extracted domains | OK |
| 2024-08-11 15:28:28 | Saving to Database | OK |

Report Generated by - MobSF v4.0.6

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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