

## ❖ APP SCORES



Security Score **57/100**  
Trackers Detection **4/432**

## ❖ FILE INFORMATION

File Name	Chrono-2.18.3-20250317.2.apk
Size	56.98MB
MD5	05b7f2a83a95ea6ce9c37fd725965118
SHA1	779c2353fef3444507becc6854b8b72196b90891
SHA256	bffae3e305d155451e90573ee36ef664928938feeb35ff6df8b04114234ad997

## ❖ APP INFORMATION

App Name	Chrono
Package Name	quebec.artm.chrono
Main Activity	quebec.artm.chrono.ui.main.MainActivity
Target SDK	35
Min SDK	23
Max SDK	
Android Version Name	2.18.3-20250317.2
Android Version Code	218030

## ► PLAYSTORE INFORMATION

Title	Chrono - Trips and fares
Score	3.1470587
Installs	500,000+
Price	0
Android Version Support	
Category	Maps & Navigation
Play Store URL	<a href="https://play.google.com/store/apps/details?id=quebec.artm.chrono">quebec.artm.chrono</a>
Developer	ARTM, <a href="#">Developer ID</a>
Developer Address	None
Developer Website	<a href="http://www.artm.quebec/application-mobile-chrono/">http://www.artm.quebec/application-mobile-chrono/</a>
Developer Email	soutien_chrono@artm.quebec
Release Date	Aug 28, 2017
Privacy Policy	<a href="#">Privacy link</a>
Description	

Chrono Mobile is the official application of the transit corporations (exo, REM, RTL, STL and STM). It has been developed to give its users a complete metropolitan experience.

Whether by bike (BIXI), metro, Communauto, river shuttle, bus or train, Chrono lets you buy your fares, find the best route for your next trip or reserve an alternative mode of transportation.

Download the application, create, and personalize your account to benefit from all the features:

- Avoid queues, reload your OPUS card, and buy fares.
- Access information on the entire metropolitan network: real-time\* and planned complete schedules, bus and train positions and occupancy levels, network map, etc.
- Reserve your next BIXI, book a Communauto or Communauto Flex
- Plan all your future trips by public transit or bicycle.
- Create favorites and alerts for lines and stops you use often.
- Read the contents of all your cards (OPUS and occasional) and find a new point of sale to buy your tickets.

\* When data is available.

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EXPORTED ACTIVITIES

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EXPORTED SERVICES

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EXPORTED RECEIVERS

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EXPORTED PROVIDERS

[View All](#) 

 **SCAN OPTIONS**

 **DECOMPILED CODE**

 **SIGNER CERTIFICATE**

```

Binary is signed
v1 signature: True
v2 signature: True
v3 signature: True
v4 signature: False
X.509 Subject: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android
Signature Algorithm: rsassa_pkcs1v15
Valid From: 2017-08-25 17:55:52+00:00
Valid To: 2047-08-25 17:55:52+00:00
Issuer: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android
Serial Number: 0xefd642b5fe110add50f4e4c0f88decd6591d4a07
Hash Algorithm: sha256
md5: 54abcedd5372ed43d6280ebfe0248969
sha1: d6438784876cb07fb204cd5337127d0e46fdc83d
sha256: 72493e539109b6660d660f4297796a2e08e2c6031f3758b6bfce03dfb6df5a27
sha512: 3ecb768ee09ce0296c34825f0ba0685896bc73f4da264b2163d8de8a42940178121e58723dc81e51f5d62511fb9213e356c98cac1499698849d040527c3cd4ad
PublicKey Algorithm: rsa
Bit Size: 4096
Fingerprint: da063d1b1162913920f55018a0cc5b3eca61ff2395dde80ad8df11f14c9f58d9
Found 1 unique certificates

```

## APPLICATION PERMISSIONS

Search:

PERMISSION	STATUS	INFO	DESCRIPTION	CODE MAPPINGS
android.permission.ACCESS_ADSERVICES_AD_ID	normal	allow app to access the device's advertising ID.	This ID is a unique, user-resettable identifier provided by Google's advertising services, allowing apps to track user behavior for advertising purposes while maintaining user privacy.	

PERMISSION	STATUS	INFO	DESCRIPTION	CODE MAPPINGS
android.permission.ACCESS_ADSERVICES_ATTRIBUTION	normal	allow applications to access advertising service attribution	This enables the app to retrieve information related to advertising attribution, which can be used for targeted advertising purposes. App can gather data about how users interact with ads, such as clicks or impressions, to measure the effectiveness of advertising campaigns.	
android.permission.ACCESS_ADSERVICES_TOPICS	normal	allow applications to access advertising service topics	This enables the app to retrieve information related to advertising topics or interests, which can be used for targeted advertising purposes.	
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_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.	

PERMISSION	STATUS	INFO	DESCRIPTION	CODE MAPPINGS
android.permission.DOWNLOAD_WITHOUT_NOTIFICATION	unknown	Unknown permission	Unknown permission from android reference	
android.permission.FOREGROUND_SERVICE	normal	enables regular apps to use Service.startForeground.	Allows a regular application to use Service.startForeground.	
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.	
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.	

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## ◆ ANDROID API

Search:

API	FILES
Android Notifications	
Base64 Decode	
Base64 Encode	

API	FILES
Certificate Handling	
Content Provider	
Crypto	
Dynamic Class and Dexloading	
Get Installed Applications	
Get Running App Processes	
Get SIM Provider Details	

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## BROWSABLE ACTIVITIES

ACTIVITY	INTENT
quebec.artm.chrono.ui.main.MainActivity	<b>Schemes:</b> @string/deeplink_base_uri_scheme_app://, <b>Hosts:</b> @string/deeplink_base_uri_host_app, <b>Paths:</b> @string/deeplink_base_communauto_auth_path,

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## 🔒 NETWORK SECURITY

HIGH  
0

WARNING  
0

INFO  
0

SECURE  
2

Search:

NO	SCOPE	SEVERITY	DESCRIPTION
1	svccronomobile.artm.quebec	secure	Domain config is securely configured to disallow clear text traffic to these domains in scope.
2	svccronomobile.artm.quebec	secure	Certificate pinning does not have an expiry. Ensure that pins are updated before certificate expire. [Pin: EvXAyvo1QTp1KyaBaZNvd2bXlFnYV8OOqke4fmoR/P8= Digest: SHA-256, Pin: 2GS69UxGIZVXwfCpdsQCpr1Z65FcOIPrVUWm3+WOOqQ= Digest: SHA-256]

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## ☒ CERTIFICATE ANALYSIS

HIGH  
0

WARNING  
1

INFO  
1

Search:

TITLE	SEVERITY	DESCRIPTION
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.
Signed Application	info	Application is signed with a code signing certificate

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## MANIFEST ANALYSIS

**HIGH**  
1**WARNING**  
7**INFO**  
0**SUPPRESSED**  
0Search: 

NO	ISSUE	SEVERITY	DESCRIPTION	OPTIONS
1	App can be installed on a vulnerable unpatched Android version Android 6.0-6.0.1, [minSdk=23]	high	This application can be installed on an older version of android that has multiple unfixed vulnerabilities. These devices won't receive reasonable security updates from Google. Support an Android version => 10, API 29 to receive reasonable security updates.	

NO ↑	ISSUE	SEVERITY	DESCRIPTION	OPTIONS ↓
2	App has a Network Security Configuration [android:networkSecurityConfig=@xml/network_security_config]	info	The Network Security Configuration feature lets apps customize their network security settings in a safe, declarative configuration file without modifying app code. These settings can be configured for specific domains and for a specific app.	
3	<b>Broadcast Receiver</b> (chrono.artm.quebec.core.receivers.ConnectivityReceiver) is not Protected. [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.	

NO ↑	ISSUE	SEVERITY	DESCRIPTION	OPTIONS ↓
4	<p><b>Service</b> (androidx.work.impl.background.systemjob.SystemJobService) is Protected by a permission, but the protection level of the permission should be checked.</p> <p><b>Permission:</b> android.permission.BIND_JOB_SERVICE [android:exported=true]</p>	warning	<p>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</p>	

NO	ISSUE	SEVERITY	DESCRIPTION	OPTIONS
			applications signed with the same certificate can obtain the permission.	

NO ↑	ISSUE	SEVERITY	DESCRIPTION	OPTIONS ↓
5	<p><b>Broadcast Receiver</b> (androidx.work.impl.diagnostics.DiagnosticsReceiver) is Protected by a permission, but the protection level of the permission should be checked.</p> <p><b>Permission:</b> android.permission.DUMP [android:exported=true]</p>	warning	<p>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</p>	

NO ▲	ISSUE	◆	SEVERITY ◆	DESCRIPTION ◆	OPTIONS ◆
				signature, only applications signed with the same certificate can obtain the permission.	

NO ↑	ISSUE	SEVERITY	DESCRIPTION	OPTIONS ↓
6	<p><b>Broadcast Receiver</b> (com.google.firebaseio.iid.FirebaseInstanceIdReceiver) is Protected by a permission, but the protection level of the permission should be checked.</p> <p><b>Permission:</b> com.google.android.c2dm.permission.SEND [android:exported=true]</p>	warning	<p>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</p>	

NO ↑	ISSUE	SEVERITY ↓	DESCRIPTION ↓	OPTIONS ↓
			signature, only applications signed with the same certificate can obtain the permission.	
7	<b>Activity</b> (androidx.compose.ui.tooling.PreviewActivity) is not Protected. [android:exported=true]	<span>warning</span>	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	OPTIONS ↓
8	<p><b>Broadcast Receiver</b> (androidx.profileinstaller.ProfileInstallReceiver) is Protected by a permission, but the protection level of the permission should be checked.</p> <p><b>Permission:</b> android.permission.DUMP [android:exported=true]</p>	warning	<p>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</p>	

NO ▲	ISSUE	◆	SEVERITY ◆	DESCRIPTION ◆	OPTIONS ◆
				signature, only applications signed with the same certificate can obtain the permission.	

NO ↑	ISSUE	SEVERITY	DESCRIPTION	OPTIONS ↓
9	<p><b>Broadcast Receiver</b>  (ccm.spirtech.calypsocardmanager.front.nfcDiscoveryWatchers.defaultImpl.NFCReceiver_NormalAndroidNFC)  is Protected by a permission, but the protection level of the permission should be checked.</p> <p><b>Permission:</b> android.permission.NFC  [android:exported=true]</p>	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	

NO	ISSUE	SEVERITY	DESCRIPTION	OPTIONS
			signature, only applications signed with the same certificate can obtain the permission.	

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## CODE ANALYSIS

HIGH

1

WARNING

8

INFO

3

SECURE

2

SUPPRESSED

0

Search:

NO	ISSUE	SEVERITY	STANDARDS	FILES	OPTIONS
1	<a href="#">The App logs information. Sensitive information should never be logged.</a>	info	<b>CWE:</b> CWE-532: Insertion of Sensitive Information into Log File <b>OWASP MASVS:</b> MSTG-STORAGE-3		
2	<a href="#">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.</a>	warning	<b>CWE:</b> CWE-89: Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') <b>OWASP Top 10:</b> M7: Client Code Quality		
3	IP Address disclosure	warning	<b>CWE:</b> CWE-200: Information Exposure <b>OWASP MASVS:</b> MSTG-CODE-2		

NO	ISSUE	SEVERITY	STANDARDS	FILES	OPTIONS
4	<a href="#">The App uses an insecure Random Number Generator.</a>	warning	<b>CWE:</b> CWE-330: Use of Insufficiently Random Values <b>OWASP Top 10:</b> M5: Insufficient Cryptography <b>OWASP MASVS:</b> MSTG-CRYPTO-6		
5	<a href="#">MD5 is a weak hash known to have hash collisions.</a>	warning	<b>CWE:</b> CWE-327: Use of a Broken or Risky Cryptographic Algorithm <b>OWASP Top 10:</b> M5: Insufficient Cryptography <b>OWASP MASVS:</b> MSTG-CRYPTO-4	<a href="#">jh/o8.java</a> <a href="#">mf/t.java</a> <a href="#">wb/c.java</a>	
6	<a href="#">Files may contain hardcoded sensitive information like usernames, passwords, keys etc.</a>	warning	<b>CWE:</b> CWE-312: Cleartext Storage of Sensitive Information <b>OWASP Top 10:</b> M9: Reverse Engineering <b>OWASP MASVS:</b> MSTG-STORAGE-14		
7	<a href="#">SHA-1 is a weak hash known to have hash collisions.</a>	warning	<b>CWE:</b> CWE-327: Use of a Broken or Risky Cryptographic Algorithm <b>OWASP Top 10:</b> M5: Insufficient Cryptography <b>OWASP MASVS:</b> MSTG-CRYPTO-4		
8	<a href="#">This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.</a>	secure	<b>OWASP MASVS:</b> MSTG-NETWORK-4		
9	App can write to App Directory. Sensitive Information should be encrypted.	info	<b>CWE:</b> CWE-276: Incorrect Default Permissions <b>OWASP MASVS:</b> MSTG-STORAGE-14	<a href="#">jx/b.java</a> <a href="#">oa/a.java</a>	
10	<a href="#">This App may have root detection capabilities.</a>	secure	<b>OWASP MASVS:</b> MSTG-RESILIENCE-1	<a href="#">ok/g.java</a>	

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## FLAG SHARED LIBRARY BINARY ANALYSIS

Search:

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	S S
1	arm64-v8a/libandroidx.graphics.path.so	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	<b>Dynamic Shared Object (DSO)</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>Full RELRO</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten by a stack buffer that overflows the return address.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have run-time search path or RPATH set.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have RUNPATH set.	<b>False</b> <span style="border: 1px solid #ccc; padding: 2px;">warning</span> 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.	<b>T S</b> <span style="border: 1px solid #ccc; padding: 2px;">[ ]</span> The check is not applicable for Dart/Flutter libraries.

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	S
2	arm64-v8a/libdatastore_shared_counter.so	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	<b>Dynamic Shared Object (DSO)</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>Full RELRO</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire detection of overflows by verifying the integrity of the canary before function return.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have run-time search path or RPATH set.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have RUNPATH set.	<b>False</b> <span style="border: 1px solid #ccc; padding: 2px;">warning</span> 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.	<b>T</b> <span style="border: 1px solid #ccc; padding: 2px;">C</span> <b>S</b> <span style="border: 1px solid #ccc; padding: 2px;">S</span>

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	S
3	arm64-v8a/libimagepipeline.so	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	<b>Dynamic Shared Object (DSO)</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>Full RELRO</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten by a stack buffer that overflows the return address.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have run-time search path or RPATH set.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have RUNPATH set.	<b>False</b> <span style="border: 1px solid #ccc; padding: 2px;">warning</span> 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.	<b>T</b> <span style="border: 1px solid #ccc; padding: 2px;">C</span> <span style="border: 1px solid #ccc; padding: 2px;">S</span> <span style="border: 1px solid #ccc; padding: 2px;">s</span>

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	S
4	arm64-v8a/libnative-filters.so	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	<b>Dynamic Shared Object (DSO)</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>Full RELRO</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire detection of overflows by verifying the integrity of the canary before function return.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have run-time search path or RPATH set.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have RUNPATH set.	<b>False</b> <span style="border: 1px solid #ccc; padding: 2px;">warning</span> 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.	<b>T</b> <span style="border: 1px solid #ccc; padding: 2px;">C</span> <b>S</b> <span style="border: 1px solid #ccc; padding: 2px;">S</span>

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	S
5	arm64-v8a/libnative-imagetranscoder.so	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	<b>Dynamic Shared Object (DSO)</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>Full RELRO</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have run-time search path or RPATH set.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have RUNPATH set.	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary has the following fortified functions: ['__vsnprintf_chk', '__strlen_chk', '__memcpy_chk', '__memmove_chk']	<b>T</b> <span style="border: 1px solid #ccc; padding: 2px;">C</span> <span style="border: 1px solid #ccc; padding: 2px;">S</span> <span style="border: 1px solid #ccc; padding: 2px;">s</span>

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	S
6	arm64-v8a/librealm-jni.so	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	<b>Dynamic Shared Object (DSO)</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>Full RELRO</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten by a stack buffer that overflows the return address.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have RPATH set.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have RUNPATH set.	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary has the following fortified functions: '__memcpy_chk', '__memset_chk', '__memmove_chk', '__strlen_chk', '__strchr_chk', '__vsprintf_chk', '__read_chk', '__vsnprintf_chk', '__FD_SET_chk'	<b>T</b> <span style="border: 1px solid #ccc; padding: 2px;">S</span> <span style="border: 1px solid #ccc; padding: 2px;">S</span>

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	S
7	armeabi-v7a/libandroidx.graphics.path.so	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	<b>Dynamic Shared Object (DSO)</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>Full RELRO</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten by a stack buffer that overflows the return address.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have RELRO enabled.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have RPATH set.	<b>False</b> <span style="border: 1px solid #ccc; padding: 2px;">warning</span> 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.	<b>T</b> <span style="border: 1px solid #ccc; padding: 2px;">C</span> <b>S</b> <span style="border: 1px solid #ccc; padding: 2px;">S</span>

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	S
8	armeabi-v7a/libdatastore_shared_counter.so	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	<b>Dynamic Shared Object (DSO)</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>Full RELRO</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten by a stack buffer that overflows the return address.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have run-time search path or RPATH set.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have RUNPATH set.	<b>False</b> <span style="border: 1px solid #ccc; padding: 2px;">warning</span> 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.	<b>T</b> <span style="border: 1px solid #ccc; padding: 2px;">C</span> <span style="border: 1px solid #ccc; padding: 2px;">S</span> <span style="border: 1px solid #ccc; padding: 2px;">s</span>

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	S
9	armeabi-v7a/libimagepipeline.so	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	<b>Dynamic Shared Object (DSO)</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>Full RELRO</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten by a stack buffer that overflows the return address.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have run-time search path or RPATH set.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have RUNPATH set.	<b>False</b> <span style="border: 1px solid #ccc; padding: 2px;">warning</span> 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.	<b>T</b> <span style="border: 1px solid #ccc; padding: 2px;">C</span> <b>S</b> <span style="border: 1px solid #ccc; padding: 2px;">S</span>

NO	SHARED OBJECT	NX	PIE	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	S
10	armeabi-v7a/libnative-filters.so	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	<b>Dynamic Shared Object (DSO)</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>True</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> 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.	<b>Full RELRO</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> This shared object has full RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In Full RELRO, the entire detection of overflows by verifying the integrity of the canary before function return.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have run-time search path or RPATH set.	<b>None</b> <span style="border: 1px solid #ccc; padding: 2px;">info</span> The binary does not have RUNPATH set.	<b>False</b> <span style="border: 1px solid #ccc; padding: 2px;">warning</span> 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.	<b>T</b> <span style="border: 1px solid #ccc; padding: 2px;">C</span> <b>S</b> <b>s</b>

Showing 1 to 10 of 48 entries

## NIAP ANALYSIS v1.3

Search:

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
No data available in table				

Showing 0 to 0 of 0 entries

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## FILE ANALYSIS

Search:

NO	ISSUE	FILES
1	Certificate/Key files hardcoded inside the app.	assets/ds-amex.pem assets/ds-discover.cer assets/ds-mastercard.crt assets/ds-visa.crt

Showing 1 to 1 of 1 entries

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## FIREBASE DATABASE ANALYSIS

Search:

TITLE	SEVERITY	DESCRIPTION
App talks to a Firebase database	info	The app talks to Firebase database at <a href="https://chronoappmobile.firebaseio.com">https://chronoappmobile.firebaseio.com</a>
Firebase Remote Config enabled	warning	The Firebase Remote Config at <a href="https://firebaseremoteconfig.googleapis.com/v1/projects/613937898427/namespaces.firebaseio:fetch?key=AlzaSyD3E-Wesn3A399_hSSFDAx1qm2reRRHCWA">https://firebaseremoteconfig.googleapis.com/v1/projects/613937898427/namespaces.firebaseio:fetch?key=AlzaSyD3E-Wesn3A399_hSSFDAx1qm2reRRHCWA</a> is enabled. Ensure that the configurations are not sensitive. This is indicated by the response: {'entries': {'gtfsFallbackUrl': 'https://storage.googleapis.com/v0/b/chronoappmobile.appspot.com/o/gtfs_v10_22.zip?alt=media&token=c60b5f65-1271-4b33-b4d5-0cdf927f29c'}, 'state': 'UPDATE', 'templateVersion': '5'}

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## MALWARE LOOKUP

 [VirusTotal Report](#)

 [Triage Report](#)

 [MetaDefender Report](#)

 [Hybrid Analysis Report](#)

## APKID ANALYSIS

Search:

DEX	DETECTIONS	
classes.dex		
	<b>FINDINGS</b>	<b>DETAILS</b>
	<a href="#">Anti Debug Code</a>	Debug.isDebuggerConnected() check
	<a href="#">Anti-VM Code</a>	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.HARDWARE check SIM operator check
	<a href="#">Compiler</a>	r8
	Showing 1 to 3 of 3 entries	
	<a href="#">Previous</a> <a href="#">1</a> <a href="#">Next</a>	

DEX	DETECTIONS								
classes2.dex	<p>Search: <input type="text"/></p> <table border="1"> <thead> <tr> <th>FINDINGS</th><th>DETAILS</th></tr> </thead> <tbody> <tr> <td>Anti Debug Code</td><td>Debug.isDebuggerConnected() check</td></tr> <tr> <td>Anti-VM Code</td><td>Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.HARDWARE check Build.TAGS check possible VM check</td></tr> <tr> <td>Compiler</td><td>r8</td></tr> </tbody> </table> <p>Showing 1 to 3 of 3 entries</p> <p style="text-align: right;"><a href="#">Previous</a> <span style="border: 1px solid blue; padding: 2px;">1</span> <a href="#">Next</a></p>	FINDINGS	DETAILS	Anti Debug Code	Debug.isDebuggerConnected() check	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.HARDWARE check Build.TAGS check possible VM check	Compiler	r8
FINDINGS	DETAILS								
Anti Debug Code	Debug.isDebuggerConnected() check								
Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.HARDWARE check Build.TAGS check possible VM check								
Compiler	r8								
classes3.dex	<p>Search: <input type="text"/></p> <table border="1"> <thead> <tr> <th>FINDINGS</th><th>DETAILS</th></tr> </thead> <tbody> <tr> <td>Anti-VM Code</td><td>Build.MANUFACTURER check</td></tr> <tr> <td>Compiler</td><td>r8</td></tr> </tbody> </table> <p>Showing 1 to 2 of 2 entries</p> <p style="text-align: right;"><a href="#">Previous</a> <span style="border: 1px solid blue; padding: 2px;">1</span> <a href="#">Next</a></p>	FINDINGS	DETAILS	Anti-VM Code	Build.MANUFACTURER check	Compiler	r8		
FINDINGS	DETAILS								
Anti-VM Code	Build.MANUFACTURER check								
Compiler	r8								

Showing 1 to 3 of 3 entries

 BEHAVIOUR ANALYSIS

Search: 

RULE ID	BEHAVIOUR	LABEL	FILES
00004	Get filename and put it to JSON object	<a href="#">file</a> <a href="#">collection</a>	<a href="#">bc/g.java</a> <a href="#">y8/b.java</a>
00005	Get absolute path of file and put it to JSON object	<a href="#">file</a>	
00009	Put data in cursor to JSON object	<a href="#">file</a>	<a href="#">af/s.java</a> <a href="#">g8/c.java</a> <a href="#">y7/n0.java</a>
00012	Read data and put it into a buffer stream	<a href="#">file</a>	<a href="#">cc/f.java</a> <a href="#">d6/g.java</a>
00013	Read file and put it into a stream	<a href="#">file</a>	
00014	Read file into a stream and put it into a JSON object	<a href="#">file</a>	
00022	Open a file from given absolute path of the file	<a href="#">file</a>	
00024	Write file after Base64 decoding	<a href="#">reflection</a> <a href="#">file</a>	<a href="#">mb/p.java</a> <a href="#">y8/b.java</a>
00026	Method reflection	<a href="#">reflection</a>	<a href="#">ns/e.java</a>
00030	Connect to the remote server through the given URL	<a href="#">network</a>	

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## ABUSED PERMISSIONS

### Top Malware Permissions

android.permission.ACCESS\_FINE\_LOCATION,  
android.permission.ACCESS\_COARSE\_LOCATION,  
android.permission.INTERNET,  
android.permission.WRITE\_EXTERNAL\_STORAGE,  
android.permission.READ\_EXTERNAL\_STORAGE,  
android.permission.GET\_TASKS,  
android.permission.ACCESS\_NETWORK\_STATE,  
android.permission.WAKE\_LOCK

### 8/25 Other Common Permissions

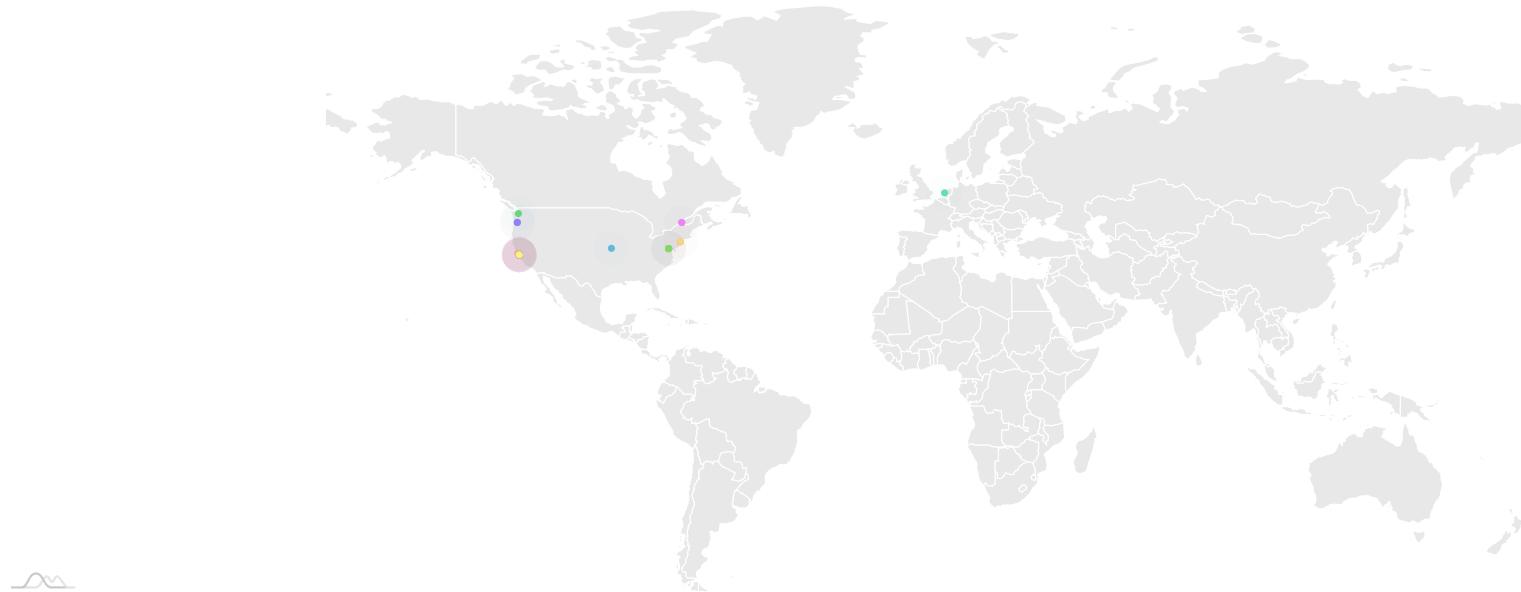
com.google.android.gms.permission.AD\_ID,  
android.permission.FOREGROUND\_SERVICE,  
com.google.android.c2dm.permission.RECEIVE,  
com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE

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**Malware Permissions** are the top permissions that are widely abused by known malware.

**Other Common Permissions** are permissions that are commonly abused by known malware.

## SERVER LOCATIONS



This app may communicate with the following OFAC sanctioned list of countries.

Search:

DOMAIN	COUNTRY/REGION
No data available in table	

Showing 0 to 0 of 0 entries

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Search: 

DOMAIN	STATUS	GEOLOCATION
api.keen.io	<span>ok</span>	<b>IP:</b> 35.162.17.146 <b>Country:</b> United States of America <b>Region:</b> Oregon <b>City:</b> Portland <b>Latitude:</b> 45.523449 <b>Longitude:</b> -122.676208 View: <a href="#">Google Map</a>
api.stripe.com	<span>ok</span>	<b>IP:</b> 34.202.153.183 <b>Country:</b> United States of America <b>Region:</b> Virginia <b>City:</b> Ashburn <b>Latitude:</b> 39.043720 <b>Longitude:</b> -77.487488 View: <a href="#">Google Map</a>
app-measurement.com	<span>ok</span>	<b>IP:</b> 142.250.137.139 <b>Country:</b> United States of America <b>Region:</b> California <b>City:</b> Mountain View <b>Latitude:</b> 37.405991 <b>Longitude:</b> -122.078514 View: <a href="#">Google Map</a>
chronoappmobile.firebaseio.com	<span>ok</span>	<b>IP:</b> 34.120.206.254 <b>Country:</b> United States of America <b>Region:</b> Missouri <b>City:</b> Kansas City <b>Latitude:</b> 39.099731 <b>Longitude:</b> -94.578568 View: <a href="#">Google Map</a>

DOMAIN	STATUS	GEOLOCATION
console.firebaseio.google.com	<span>ok</span>	<b>IP:</b> 142.250.137.139 <b>Country:</b> United States of America <b>Region:</b> California <b>City:</b> Mountain View <b>Latitude:</b> 37.405991 <b>Longitude:</b> -122.078514 <b>View:</b> <a href="#">Google Map</a>
developer.android.com	<span>ok</span>	<b>IP:</b> 192.178.192.102 <b>Country:</b> United States of America <b>Region:</b> California <b>City:</b> Mountain View <b>Latitude:</b> 37.405991 <b>Longitude:</b> -122.078514 <b>View:</b> <a href="#">Google Map</a>
docs.mongodb.com	<span>ok</span>	<b>IP:</b> 3.33.186.135 <b>Country:</b> United States of America <b>Region:</b> Washington <b>City:</b> Seattle <b>Latitude:</b> 47.627499 <b>Longitude:</b> -122.346199 <b>View:</b> <a href="#">Google Map</a>
errors.stripe.com	<span>ok</span>	<b>IP:</b> 198.202.176.161 <b>Country:</b> United States of America <b>Region:</b> New York <b>City:</b> New York City <b>Latitude:</b> 40.797550 <b>Longitude:</b> -73.946190 <b>View:</b> <a href="#">Google Map</a>

DOMAIN	STATUS	GEOLOCATION
files.stripe.com	ok	<b>IP:</b> 3.94.14.82 <b>Country:</b> United States of America <b>Region:</b> Virginia <b>City:</b> Ashburn <b>Latitude:</b> 39.043720 <b>Longitude:</b> -77.487488 <b>View:</b> <a href="#">Google Map</a>
firebase.google.com	ok	<b>IP:</b> 142.250.139.102 <b>Country:</b> United States of America <b>Region:</b> California <b>City:</b> Mountain View <b>Latitude:</b> 37.405991 <b>Longitude:</b> -122.078514 <b>View:</b> <a href="#">Google Map</a>

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## URLS

Search:

URL	FILE
data:image	<a href="#">be/j.java</a>
data:image	<a href="#">hc/d.java</a>
http://%s <a href="https://github.com/realm/realm-core/issues/new/choose">https://github.com/realm/realm-core/issues/new/choose</a>	<a href="#">apktool_out/lib/arm64-v8a/librealm-jni.so</a>

URL	FILE
http://%s https://github.com/realm/realm-core/issues/new/choose	<a href="#">apktool_out/lib/armeabi-v7a/librealm-jni.so</a>
http://%s https://github.com/realm/realm-core/issues/new/choose	<a href="#">apktool_out/lib/x86/librealm-jni.so</a>
http://%s https://github.com/realm/realm-core/issues/new/choose	<a href="#">apktool_out/lib/x86_64/librealm-jni.so</a>
http://%s https://github.com/realm/realm-core/issues/new/choose	<a href="#">lib/arm64-v8a/librealm-jni.so</a>
http://%s https://github.com/realm/realm-core/issues/new/choose	<a href="#">lib/armeabi-v7a/librealm-jni.so</a>
http://%s https://github.com/realm/realm-core/issues/new/choose	<a href="#">lib/x86/librealm-jni.so</a>
http://%s https://github.com/realm/realm-core/issues/new/choose	<a href="#">lib/x86_64/librealm-jni.so</a>

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## ✉ EMAILS

Search:

EMAIL	FILE
support@stripe.com	<a href="#">com/stripe/android/exception/APIConnectionException.java</a>

EMAIL	FILE
support@stripe.com	<a href="#">com/stripe/android/networking/StripeRequest.java</a>

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## ⚠ TRACKERS

Search:

TRACKER NAME	CATEGORIES	URL
Google AdMob	Advertisement	<a href="https://reports.exodus-privacy.eu.org/trackers/312">https://reports.exodus-privacy.eu.org/trackers/312</a>
Google CrashLytics	Crash reporting	<a href="https://reports.exodus-privacy.eu.org/trackers/27">https://reports.exodus-privacy.eu.org/trackers/27</a>
Google Firebase Analytics	Analytics	<a href="https://reports.exodus-privacy.eu.org/trackers/49">https://reports.exodus-privacy.eu.org/trackers/49</a>
Keen	Analytics	<a href="https://reports.exodus-privacy.eu.org/trackers/262">https://reports.exodus-privacy.eu.org/trackers/262</a>

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## 🔑 POSSIBLE HARDCODED SECRETS

► Show all **450** secrets

## 🅰️ STRINGS

From APK Resource

- ▶ Show all **3607** strings

#### From Code

- ▶ Show all **41542** strings

#### From Shared Objects

*apktool\_out/lib/arm64-v8a/libandroidx.graphics.path.so*

- ▶ Show all **19** strings

*apktool\_out/lib/arm64-v8a/libdatastore\_shared\_counter.so*

- ▼ Showing all **3** strings

ro.arch  
exynos9810  
java/io/IOException

*apktool\_out/lib/arm64-v8a/libimagepipeline.so*

- ▶ Show all **25** strings

*apktool\_out/lib/arm64-v8a/libnative-filters.so*

- ▶ Show all **45** strings

*apktool\_out/lib/arm64-v8a/libnative-imagetranscoder.so*

- ▶ Show all **477** strings

*apktool\_out/lib/arm64-v8a/librealm-jni.so*

- ▶ Show all **9656** strings

*apktool\_out/lib/armeabi-v7a/libandroidx.graphics.path.so*

- ▶ Show all **19** strings

*apktool\_out/lib/armeabi-v7a/libdatastore\_shared\_counter.so*

▼ Showing all **1** strings

java/io/IOException

*apktool\_out/lib/armeabi-v7a/libimagepipeline.so*

► Show all **25** strings

*apktool\_out/lib/armeabi-v7a/libnative-filters.so*

► Show all **45** strings

*apktool\_out/lib/armeabi-v7a/libnative-imagetranscoder.so*

► Show all **466** strings

*apktool\_out/lib/armeabi-v7a/librealm-jni.so*

► Show all **9581** strings

*apktool\_out/lib/x86/libandroidx.graphics.path.so*

► Show all **19** strings

*apktool\_out/lib/x86/libdatastore\_shared\_counter.so*

▼ Showing all **1** strings

java/io/IOException

*apktool\_out/lib/x86/libimagepipeline.so*

► Show all **25** strings

*apktool\_out/lib/x86/libnative-filters.so*

► Show all **45** strings

*apktool\_out/lib/x86/libnative-imagetranscoder.so*

► Show all **441** strings

*apktool\_out/lib/x86/librealm-jni.so*

- ▶ Show all **9541** strings

*apktool\_out/lib/x86\_64/libandroidx.graphics.path.so*

- ▶ Show all **19** strings

*apktool\_out/lib/x86\_64/libdatastore\_shared\_counter.so*

- ▼ Showing all **1** strings

java/io/IOException

*apktool\_out/lib/x86\_64/libimagepipeline.so*

- ▶ Show all **25** strings

*apktool\_out/lib/x86\_64/libnative-filters.so*

- ▶ Show all **45** strings

*apktool\_out/lib/x86\_64/libnative-imagetranscoder.so*

- ▶ Show all **447** strings

*apktool\_out/lib/x86\_64/librealm-jni.so*

- ▶ Show all **9573** strings

*lib/arm64-v8a/libandroidx.graphics.path.so*

- ▶ Show all **19** strings

*lib/arm64-v8a/libdatastore\_shared\_counter.so*

- ▼ Showing all **3** strings

ro.arch

exynos9810

java/io/IOException

*lib/arm64-v8a/libimagepipeline.so*

- ▶ Show all **25** strings

*lib/arm64-v8a/libnative-filters.so*

- ▶ Show all **45** strings

*lib/arm64-v8a/libnative-imagetranscoder.so*

- ▶ Show all **477** strings

*lib/arm64-v8a/librealm-jni.so*

- ▶ Show all **9656** strings

*lib/armeabi-v7a/libandroidx.graphics.path.so*

- ▶ Show all **19** strings

*lib/armeabi-v7a/libdatastore\_shared\_counter.so*

- ▼ Showing all **1** strings

java/io/IOException

*lib/armeabi-v7a/libimagepipeline.so*

- ▶ Show all **25** strings

*lib/armeabi-v7a/libnative-filters.so*

- ▶ Show all **45** strings

*lib/armeabi-v7a/libnative-imagetranscoder.so*

- ▶ Show all **466** strings

*lib/armeabi-v7a/librealm-jni.so*

- ▶ Show all **9581** strings

*lib/x86/libandroidx.graphics.path.so*

- ▶ Show all **19** strings

*lib/x86/libdatastore\_shared\_counter.so*

- ▼ Showing all **1** strings
  - java/io/IOException

*lib/x86/libimagepipeline.so*

- Show all **25** strings

*lib/x86/libnative-filters.so*

- Show all **45** strings

*lib/x86/libnative-imagetranscoder.so*

- Show all **441** strings

*lib/x86/librealm-jni.so*

- Show all **9541** strings

*lib/x86\_64/libandroidx.graphics.path.so*

- Show all **19** strings

*lib/x86\_64/libdatastore\_shared\_counter.so*

- ▼ Showing all **1** strings
  - java/io/IOException

*lib/x86\_64/libimagepipeline.so*

- Show all **25** strings

*lib/x86\_64/libnative-filters.so*

- Show all **45** strings

*lib/x86\_64/libnative-imagetranscoder.so*

- Show all **447** strings

*lib/x86\_64/librealm-jni.so*

- Show all **9573** strings

## A ACTIVITIES

- ▼ Showing all **33** activities

[quebec.artm.chrono.ui.main.MainActivity](#)  
[quebec.artm.chrono.ui.account.AccountActivity](#)  
[quebec.artm.chrono.ui.feed.FeedActivity](#)  
[quebec.artm.chrono.ui.bookmark.create.BookmarkActivity](#)  
[quebec.artm.chrono.ui.bookmark.create.CreateBookmarkActivity](#)  
[quebec.artm.chrono.ui.webview.WebViewActivity](#)  
[quebec.artm.chrono.ui.webview.CustomButtonWebViewActivity](#)  
[quebec.artm.chrono.ui.webview.contactus.ContactUsWebViewActivity](#)  
[quebec.artm.chrono.ui.webview.aboutus.AboutUsWebViewActivity](#)  
[quebec.artm.chrono.ui.help.HelpActivity](#)  
[quebec.artm.chrono.ui.settings.SettingsActivity](#)  
[quebec.artm.chrono.ui.salepoints.detail.SalePointDetailActivity](#)  
[quebec.artm.chrono.ui.communauto.station.accessories.CarAccessoriesActivity](#)  
[quebec.artm.chrono.ui.communauto.station.characteristics.CommunauteVehicleCharacteristicsActivity](#)  
[quebec.artm.chrono.ui.search.GenericSearchBarActivity](#)  
[quebec.artm.chrono.ui.addressonmap.AddressOnMapActivity](#)  
[quebec.artm.chrono.ticketing.ui.opus.main.OpusActivity](#)  
[quebec.artm.chrono.ticketing.ui.transitfare.main.TransitFareActivity](#)  
[com.stripe.android.view.AddPaymentMethodActivity](#)  
[com.stripe.android.view.PaymentMethodsActivity](#)  
[com.stripe.android.view.PaymentFlowActivity](#)  
[com.stripe.android.view.PaymentAuthWebViewActivity](#)  
[com.stripe.android.view.PaymentRelayActivity](#)  
[com.stripe.android.view.Stripe3ds2CompletionActivity](#)  
[com.stripe.android.paymentsheet.PaymentSheetActivity](#)  
[com.stripe.android.paymentsheet.PaymentOptionsActivity](#)  
[com.stripe.android.stripe3ds2.views.ChallengeActivity](#)  
[com.stripe.android.stripe3ds2.views.ChallengeProgressActivity](#)

[com.google.android.gms.ads.AdActivity](#)  
[com.google.android.gms.ads.OutOfContextTestingActivity](#)  
[com.google.android.gms.ads.NotificationHandlerActivity](#)  
[com.google.android.gms.common.api.GoogleApiActivity](#)  
[androidx.compose.ui.tooling.PreviewActivity](#)

## SERVICES

▼ Showing all **14** services

[quebec.artm.chrono.firebaseio.ChronoMessagingService](#)  
[quebec.artm.chrono.widget.WidgetService](#)  
[com.google.firebaseio.components.ComponentDiscoveryService](#)  
[com.google.android.gms.ads.AdService](#)  
[androidx.work.impl.background.systemalarm.SystemAlarmService](#)  
[androidx.work.impl.background.systemjob.SystemJobService](#)  
[androidx.work.impl.foreground.SystemForegroundService](#)  
[androidx.room.MutliInstanceInvalidationService](#)  
[com.google.firebaseio.messaging.FirebaseMessagingService](#)  
[com.google.firebaseio.sessions.SessionLifecycleService](#)  
[com.google.android.datatransport.runtime.backends.TransportBackendDiscovery](#)  
[com.google.android.gms.measurement.AppMeasurementService](#)  
[com.google.android.gms.measurement.AppMeasurementJobService](#)  
[com.google.android.datatransport.runtime.scheduling.jobscheduling.JobInfoSchedulerService](#)

## RECEIVERS

▼ Showing all **16** receivers

[quebec.artm.chrono.receiver.NotificationReceiver](#)  
[quebec.artm.chrono.widget.ChronoWidgetProvider](#)  
[chrono.artm.quebec.core.receivers.ConnectivityReceiver](#)  
[androidx.work.impl.utils.ForceStopRunnable\\$BroadcastReceiver](#)  
[androidx.work.impl.background.systemalarm.ConstraintProxy\\$BatteryChargingProxy](#)  
[androidx.work.impl.background.systemalarm.ConstraintProxy\\$BatteryNotLowProxy](#)

[androidx.work.impl.background.systemalarm.ConstraintProxy\\$StorageNotLowProxy](#)  
[androidx.work.impl.background.systemalarm.ConstraintProxy\\$NetworkStateProxy](#)  
[androidx.work.impl.background.systemalarm.RescheduleReceiver](#)  
[androidx.work.impl.background.systemalarm.ConstraintProxyUpdateReceiver](#)  
[androidx.work.impl.diagnostics.DiagnosticsReceiver](#)  
[com.google.firebaseio.iid.FirebaseInstanceIdReceiver](#)  
[com.google.android.gms.measurement.AppMeasurementReceiver](#)  
[androidx.profileinstaller.ProfileInstallReceiver](#)  
[com.google.android.datatransport.runtime.scheduling.jobscheduling.AlarmManagerSchedulerBroadcastReceiver](#)  
[ccm.spiretech.calypsocardmanager.front.nfcDiscoveryWatchers.defaultImpl.NFCReceiver\\_NormalAndroidNFC](#)

## PROVIDERS

### ▼ Showing all **5** providers

[androidx.startup.InitializationProvider](#)  
[androidx.core.content.FileProvider](#)  
[com.google.android.gms.ads.MobileAdsInitProvider](#)  
[com.squareup.picasso.PicassoProvider](#)  
[com.google.firebaseio.provider.FirebaseInitProvider](#)

## LIBRARIES

### ▼ Showing all **4** libraries

org.apache.http.legacy  
androidx.window.extensions  
androidx.window.sidecar  
android.ext.adservices

## SBOM

- ▶ Show all **124** Versioned Packages
- ▶ Show all **1102** Packages

 FILES

► Show all **2813** files