

## ANDROID STATIC ANALYSIS REPORT



♠ MyZio (2.1.1-rc2)

File Name:	com.irhythm.myzio.android_1944.apk
Package Name:	com.irhythm.myzio.android
Scan Date:	Aug. 30, 2025, 10:14 p.m.
App Security Score:	55/100 (MEDIUM RISK)
Grade:	
Trackers Detection:	3/432

#### FINDINGS SEVERITY

<b>≟</b> HIGH	▲ MEDIUM	i INFO	✓ SECURE	<b>◎</b> HOTSPOT
2	16	2	3	1

#### FILE INFORMATION

**File Name:** com.irhythm.myzio.android\_1944.apk

**Size:** 12.83MB

MD5: a0cfe2694d8d1a3ec6bf172efc67ca42

**SHA1**: 307e452baf752d723a31e837af070aa487e94fff

SHA256: 6d3d5d87b4edc79c4d4a11303f1a527e093d68e6b5a616a48430f548f6b0ba5b

# **i** APP INFORMATION

App Name: MyZio

Package Name: com.irhythm.myzio.android

Main Activity: com.irhythm.myzio.android.AppActivity

Target SDK: 34 Min SDK: 26 Max SDK:

**Android Version Name:** 2.1.1-rc2

**Android Version Code: 1944** 

#### **APP COMPONENTS**

Activities: 8
Services: 9
Receivers: 4
Providers: 3

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

#### **\*** CERTIFICATE INFORMATION

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

X.509 Subject: O=IRhythmTech, OU=IRhythmTech, CN=IRhythmTech

Signature Algorithm: rsassa\_pkcs1v15 Valid From: 2017-03-10 13:38:02+00:00 Valid To: 2042-03-04 13:38:02+00:00

Issuer: O=IRhythmTech, OU=IRhythmTech, CN=IRhythmTech

Serial Number: 0x75508147 Hash Algorithm: sha256

md5: d12ab0f8ec7bc7648cde00e834e01aaf

sha1: 9deb4e7664aa9c5afe4a5694af7262cf70242112

sha256: 3ff04b79b04620fbe3921561aff0d76d53d13866cad18c3ebfd2aa57df9f7561

sha512: 27641b6ce4c463cebd88acfbde5a322ffd260f034037ff33728165f96ba10ff0cabe0a0a0f3967f658b66dcdc23bae91e3ca5d54cd19b420c3f411feebe445cb

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: 7767ad4e08f450d4e82e339e81ba35b62010bf289f9d443ab38080b09b32bd04

Found 1 unique certificates

# **⋮** APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
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.POST_NOTIFICATIONS	dangerous	allows an app to post notifications.	Allows an app to post notifications
android.permission.VIBRATE	normal	control vibrator	Allows the application to control the vibrator.
android.permission.USE_BIOMETRIC	normal	allows use of device- supported biometric modalities.	Allows an app to use device supported biometric modalities.
android.permission.USE_FINGERPRINT	normal	allow use of fingerprint	This constant was deprecated in API level 28. Applications should request USE_BIOMETRIC instead.
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.

PERIVISSION STATUS INFO DESCRIPTION	PERMISSION	STATUS INFO	DESCRIPTION
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com.google.android.c2dm.permission.RECEIVE	normal	recieve push notifications	Allows an application to receive push notifications from cloud.
com.google.android.gms.permission.AD_ID	normal	application shows advertisements	This app uses a Google advertising ID and can possibly serve advertisements.
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	normal	permission defined by google	A custom permission defined by Google.
com.irhythm.myzio.android.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference

# **M** APKID ANALYSIS

FILE	DETAILS		
a0cfe2694d8d1a3ec6bf172efc67ca42.apk	FINDINGS	DETAILS	
	Anti-VM Code	possible VM check	

FILE	DETAILS	
	FINDINGS	DETAILS
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.HARDWARE check possible Build.SERIAL check Build.TAGS check SIM operator check possible VM check
	Anti Debug Code	Debug.isDebuggerConnected() check
	Compiler	r8 without marker (suspicious)
	FINDINGS	DETAILS
classes2.dex	Anti-VM Code	Build.MANUFACTURER check Build.BOARD check SIM operator check
	Compiler	r8 without marker (suspicious)



ACTIVITY	INTENT
com.irhythm.myzio.android.AppActivity	Schemes: https://, Hosts: @string/deeplink_host_uk, @string/deeplink_host_us, Path Prefixes: /main/MESSAGES, /reset,
sdk.pendo.io.activities.PendoGateActivity	Schemes: pendo-f6ba59ea://,

## **△** NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

#### **CERTIFICATE ANALYSIS**

HIGH: 0 | WARNING: 0 | INFO: 1

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

# **Q** MANIFEST ANALYSIS

HIGH: 0 | WARNING: 5 | INFO: 0 | SUPPRESSED: 0

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 (sdk.pendo.io.activities.PendoGateActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving accessible to any other application on the device.	
3	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.	
4	Activity (androidx.compose.ui.tooling.PreviewActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.	
5	Broadcast Receiver (androidx.profileinstaller.ProfileInstallReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.DUMP [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.	

# </> CODE ANALYSIS

NO	ISSUE	SEVERITY	STANDARDS	FILES
				a0/e.java
				a0/h.java
				ab/b.java
				b0/b.java
				b8/a.java
				bb/f.java
				bb/h.java
				bb/j.java
				bb/l.java
				bb/n.java
				bb/o.java
				bb/p.java
				bb/q.java
				bb/s.java
				bb/t.java
				bb/v.java
				c4/a1.java
				c4/j.java
				c4/t0.java
				c5/b.java
				c5/c.java
				c5/g.java
				c8/e.java
				cb/b.java
				cb/d.java
				cb/i.java
				cc/a.java
				cg/p.java
				d/d.java
				d3/y.java
				d4/f.java
				d8/a.java
				da/e.java
				da/g.java
				e1/k1.java
				e5/c.java
				ea/h.java
				ea/11.java

NO	ISSUE	SEVERITY	STANDARDS	ec/b.java <b>Edlajs</b> va ei/e java
		JEVERITI -		ei/e.java ei/e.java external/sdk/pendo/io/com/appmattus/certific atetransparency/internal/loglist/model/v2/Log \$\$serializer.java external/sdk/pendo/io/glide/a.java external/sdk/pendo/io/glide/gifdecoder/Standa rdGifDecoder.java external/sdk/pendo/io/glide/load/data/AssetPa thFetcher.java external/sdk/pendo/io/glide/load/data/HttpUrl Fetcher.java external/sdk/pendo/io/glide/load/data/LocalUr iFetcher.java external/sdk/pendo/io/glide/load/data/medias tore/ThumbFetcher.java external/sdk/pendo/io/glide/load/data/medias tore/c.java external/sdk/pendo/io/glide/load/engine/Engin e.java external/sdk/pendo/io/glide/load/engine/bitm ap_recycle/LruArrayPool.java external/sdk/pendo/io/glide/load/engine/bitm ap_recycle/LruBitmapPool.java external/sdk/pendo/io/glide/load/engine/cach e/DiskLruCacheWrapper.java external/sdk/pendo/io/glide/load/engine/g.jav a external/sdk/pendo/io/glide/load/engine/h.jav a external/sdk/pendo/io/glide/load/engine/h.jav a external/sdk/pendo/io/glide/load/engine/n.jav a external/sdk/pendo/io/glide/load/engine/n.jav a external/sdk/pendo/io/glide/load/engine/u.jav a external/sdk/pendo/io/glide/load/engine/u.jav a external/sdk/pendo/io/glide/load/engine/u.jav a
				external/sdk/pendo/io/glide/load/model/Byte BufferFileLoader.java

NO	ISSUE	SEVERITY	STANDARDS	external/sdk/pendo/io/glide/load/model/FileL <b>FallES</b> java  external/sdk/pendo/io/glide/load/model/Reso
NO	ISSUE	SEVERITY	STANDARDS	external/sdk/pendo/io/glide/load/model/Reso urceLoader.java external/sdk/pendo/io/glide/load/model/Strea mEncoder.java external/sdk/pendo/io/glide/load/resource/Im ageDecoderResourceDecoder.java external/sdk/pendo/io/glide/load/resource/bit map/BitmapEncoder.java external/sdk/pendo/io/glide/load/resource/bit map/BitmapImageDecoderResourceDecoder.ja va external/sdk/pendo/io/glide/load/resource/bit map/DefaultImageHeaderParser.java external/sdk/pendo/io/glide/load/resource/bit map/VideoDecoder.java external/sdk/pendo/io/glide/load/resource/bit map/b.java external/sdk/pendo/io/glide/load/resource/bit map/c.java external/sdk/pendo/io/glide/load/resource/bit map/d.java external/sdk/pendo/io/glide/load/resource/gif/ ByteBufferGifDecoder.java external/sdk/pendo/io/glide/load/resource/gif/ GifDrawableEncoder.java external/sdk/pendo/io/glide/load/resource/gif/ StreamGifDecoder.java external/sdk/pendo/io/glide/load/resource/gif/ StreamGifDecoder.java external/sdk/pendo/io/glide/manager/DefaultC onnectivityMonitorFactory.java external/sdk/pendo/io/glide/manager/DefaultC onnectivityMonitorFactory.java external/sdk/pendo/io/glide/request/SingleReq uest.java external/sdk/pendo/io/glide/request/target/Cu stomViewTarget.java external/sdk/pendo/io/glide/request/target/Vie
				wTarget.java external/sdk/pendo/io/mozilla/javascript/Scrip tRuntime.java

NO	ISSUE	SEVERITY	STANDARDS	external/sdk/pendo/io/mozilla/javascript/tools
				external/sdk/pendo/io/mozilla/javascript/tools
				/idswitch/Main.java
I				external/sdk/pendo/io/mozilla/javascript/tools
I				/jsc/Main.java
I				f/a0.java
I				f/b0.java
I				f/e.java
I				f/f0.java
I				f/o0.java
I				f/s.java
I				f4/m.java
ŀ				f4/q.java
I				f8/e.java
I				f8/g.java
I				fb/a.java
I				fb/b.java
I				fd/y2.java
I				g4/f.java
ļ				g4/h.java
ļ				g4/i.java
ļ				gb/c.java
ļ				h0/f.java
!				h0/k.java
ļ				h0/r.java
ļ				h4/d.java
I				ha/j.java
!				hb/b.java
ļ				hh/l.java
ļ				i/i.java
ļ				i/j.java
ļ				ic/e.java
ļ				ih/d.java
ļ				j/i.java
ļ				j/o.java
ļ				j0/a.java
ļ				j1/y.java
ļ				k/e1.java
ļ				k/g2.java
ŀ				

NO	ISSUE	SEVERITY	STANDARDS	k/g3.java <b>F/iiL JāS</b> va k/j.java
1	The App logs information. Sensitive information should never be logged.	info	CWE: CWE-532: Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	k/k3.java k/l0.java k/l2.java k/z3.java k4/o.java k4/o.java k8/r.java kc/a.java kc/c.java kc/d.java l4/a.java l5/o.java l5/r.java l8/a1.java l8/d8.java l8/m5.java l8/m5.java la/a.java la/c.java la/c.java m1/q2.java m7/c.java m7/i.java n6/i.java net/sqlcipher/AbstractCursor.java net/sqlcipher/DatabaseUtils.java net/sqlcipher/DefaultDatabaseErrorHandler.jav a net/sqlcipher/database/SQLiteCompiledSql.jav a net/sqlcipher/database/SQLiteContentHelper.ja va

NO	ISSUE	SEVERITY	STANDARDS	net/sqlcipher/database/SQLiteDatabase.java
				net/sqlcipher/database/SQLiteOpenHelper.java
				net/sqlcipher/database/SQLiteProgram.java
				net/sqlcipher/database/SQLiteQuery.java
				net/sqlcipher/database/SQLiteQueryBuilder.ja
				va
				net/sqlcipher/database/SqliteWrapper.java
				p4/c1.java
				p4/c2.java
				p4/q0.java
				p4/x.java
				p4/x1.java
				p4/y1.java
				p5/d1.java
				p5/n0.java
				p5/x.java
				p5/y0.java
				pb/b.java
				q/a0.java
				q/b2.java
				q/g0.java
				q/h.java
				q/i1.java
				q/i2.java
				q/y.java
				q8/b6.java
				q8/d6.java
				q8/h6.java
				q8/i3.java
				q8/i6.java
				q8/m6.java
				qa/e.java
				qa/g.java
				r2/f.java
				r4/b.java
				r6/n.java
				r7/a.java
				r7/b.java
				r9/e.java
•	•	1	<b>,</b>	

NO	ISSUE	SEVERITY	STANDARDS	s0/t0.java <b>F3le5S</b> va
	13302	JE V EIXIII	STARDINGS	s4/v.java
				s5/b.java
		!		s8/a.java
		!		s9/a.java
		!		sb/c.java
		!		sdk/pendo/io/PendoInternal.java
		!		sdk/pendo/io/activities/PendoGateActivity.java
		!		sdk/pendo/io/c0/j.java
		!		sdk/pendo/io/c0/k.java
		!		sdk/pendo/io/c0/m.java
		!		sdk/pendo/io/c0/n.java
		!		sdk/pendo/io/g3/c.java
		!		sdk/pendo/io/g9/a.java
		!		sdk/pendo/io/h0/a.java
		!		sdk/pendo/io/i8/e.java
		!		sdk/pendo/io/j0/a.java
		!		sdk/pendo/io/j7/g.java
		!		sdk/pendo/io/logging/PendoLogger.java
		!		sdk/pendo/io/logging/c.java
		!		sdk/pendo/io/p/a.java
		!		sdk/pendo/io/p8/a.java
		!		sdk/pendo/io/v/a.java
		!		sdk/pendo/io/w/a.java
		!		sdk/pendo/io/w/b.java
		!		sdk/pendo/io/y/b.java
		!		t3/a0.java
		!		t3/e0.java
				t3/h.java
		!		t3/j.java
		!		t3/j0.java
		!		t3/k0.java
		!		t3/n.java
		!		t3/s.java
		!		t3/y.java
		!		t4/c.java
		!		t5/e.java
		!		t8/a.java
		!		tb/b.java

NO	ISSUE	SEVERITY	STANDARDS	u5/a.java <b>GWES</b> va
INO	13301	JLVLIXI I	STANDARDS	
				u7/c.java
				u7/d.java u7/g.java
				u7/h.java
				u7/i.java
				u7/k.java
				u7/l.java
				u7/m.java
				u9/h.java
				ub/c.java
				v1/l.java
				v3/f.java
				v6/c.java
				v7/d.java
				v7/e.java
				v7/h.java
				v7/i.java
				v7/j.java
				v7/n.java
				v7/r.java
				v7/u.java
				v9/c.java
				va/c.java
				va/d.java
				va/e.java
				va/i.java
				w/c.java
				w0/n0.java
				w4/e.java
				w8/e.java
				w9/g.java
				w9/i.java
				w9/k.java
				x/o0.java
				x/x0.java
				x7/e.java
				x7/n.java
				xa/a.java

NO	ISSUE	SEVERITY	STANDARDS	xb/c0.java <b>FibleEjS</b> va
				xb/e0.java
				xb/g.java
				xb/i.java
				xb/m.java
				xb/o.java
				xb/r.java
				xb/s.java
				xb/t.java
				xb/u.java
				xb/x.java
				xb/y.java
				xb/z.java
				y/l.java
				y1/f.java
				y3/a.java
				y3/c.java
				y3/f.java
				y3/h.java
				y3/l.java
				y3/r.java
				y3/s.java
				y7/e.java
				y7/h.java
				y7/h0.java
				y7/i0.java
				y7/k0.java
				y7/l.java
				y7/n0.java

y7/s.java

y7/v.java

ya/b.java

ya/c.java

z9/h.java

za/c.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
2	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	a0/f.java ag/a.java f4/m.java q8/h6.java ra/a.java sdk/pendo/io/j3/d.java sdk/pendo/io/j3/h.java sdk/pendo/io/j4/f.java sdk/pendo/io/v4/c.java sdk/pendo/io/v4/d.java sdk/pendo/io/w2/z.java zf/a.java zf/b.java
3	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	c3/j.java c3/n0.java dd/f2.java dd/w1.java ed/v0.java external/sdk/pendo/io/com/appmattus/certific atetransparency/internal/loglist/model/v2/Log. java external/sdk/pendo/io/glide/load/engine/c.jav a external/sdk/pendo/io/glide/load/engine/m.jav a external/sdk/pendo/io/glide/load/engine/s.jav a external/sdk/pendo/io/mozilla/javascript/Class Cache.java external/sdk/pendo/io/mozilla/javascript/Nativ eError.java external/sdk/pendo/io/mozilla/javascript/Nativ eJavaObject.java external/sdk/pendo/io/mozilla/javascript/Scrip tRuntime.java external/sdk/pendo/io/mozilla/javascript/xmli

NO	ISSUE	SEVERITY	STANDARDS	mpl/XmlNode.java <b>FiluES</b> java  m1/g1.java
				sdk/pendo/io/actions/ActivationManager.java sdk/pendo/io/actions/FloatingVisualGuide.java sdk/pendo/io/actions/ToolTipVisualGuide.java sdk/pendo/io/actions/handlers/PendoGlobalC ommandHandler.java sdk/pendo/io/d1/e.java sdk/pendo/io/m/d.java sdk/pendo/io/models/GlobalEventPropertiesKt .java sdk/pendo/io/models/StepModel.java sdk/pendo/io/n/b.java sdk/pendo/io/q/g.java sdk/pendo/io/views/custom/videoplayer/Pend oYoutubePlayer.java v6/d.java
4	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-4	hh/d.java hh/g.java hh/k.java hh/l.java sdk/pendo/io/f3/c.java sdk/pendo/io/f3/d.java sdk/pendo/io/f3/g.java sdk/pendo/io/f3/h.java sdk/pendo/io/k/d.java sdk/pendo/io/t4/c.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
5	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	h0/f.java l8/u5.java m7/c.java m7/h.java m7/i.java n7/m.java net/sqlcipher/database/SQLiteDatabase.java q/b2.java q/f.java q/f0.java q/h.java q8/d3.java q8/d6.java q8/d6.java
6	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	bb/f.java fb/b.java sdk/pendo/io/g9/m.java tb/b.java ub/c.java
7	This App may have root detection capabilities.	secure	OWASP MASVS: MSTG-RESILIENCE-1	bb/f.java da/g.java
8	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	external/sdk/pendo/io/mozilla/javascript/tools /shell/Main.java q8/h6.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
9	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	external/sdk/pendo/io/mozilla/javascript/tools /debugger/Dim.java sdk/pendo/io/a4/b.java sdk/pendo/io/d4/b.java sdk/pendo/io/e4/d.java sdk/pendo/io/e4/f.java sdk/pendo/io/e4/f.java sdk/pendo/io/e4/k.java sdk/pendo/io/f4/h.java sdk/pendo/io/j/b.java sdk/pendo/io/j/j.java sdk/pendo/io/j/j.java sdk/pendo/io/n3/b.java sdk/pendo/io/n3/b.java sdk/pendo/io/o3/a.java sdk/pendo/io/v3/a.java sdk/pendo/io/v3/b.java sdk/pendo/io/v3/b.java sdk/pendo/io/v3/b.java sdk/pendo/io/v3/b.java sdk/pendo/io/v3/a.java sdk/pendo/io/y3/a.java sdk/pendo/io/y3/a.java
10	Insecure WebView Implementation. Execution of user controlled code in WebView is a critical Security Hole.	warning	CWE: CWE-749: Exposed Dangerous Method or Function OWASP Top 10: M1: Improper Platform Usage OWASP MASVS: MSTG-PLATFORM-7	sdk/pendo/io/views/custom/videoplayer/Pend oYoutubePlayer.java
11	App can read/write to External Storage. Any App can read data written to External Storage.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	sdk/pendo/io/PendoInternal.java sdk/pendo/io/r8/a.java
12	This App uses SQL Cipher. SQLCipher provides 256-bit AES encryption to sqlite database files.	info	OWASP MASVS: MSTG-CRYPTO-1	net/sqlcipher/database/SupportHelper.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
13	The App uses the encryption mode CBC with PKCS5/PKCS7 padding. This configuration is vulnerable to padding oracle attacks.	high	CWE: CWE-649: Reliance on Obfuscation or Encryption of Security-Relevant Inputs without Integrity Checking OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-3	a0/h.java
14	Debug configuration enabled. Production builds must not be debuggable.	high	CWE: CWE-919: Weaknesses in Mobile Applications OWASP Top 10: M1: Improper Platform Usage OWASP MASVS: MSTG-RESILIENCE-2	external/sdk/pendo/io/daimajia/BuildConfig.ja va
15	App creates temp file. Sensitive information should never be written into a temp file.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	q8/i6.java

# ■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
				5250 1.0.t

# **BEHAVIOUR ANALYSIS**

RULE ID	BEHAVIOUR	LABEL	FILES
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RULE ID	BEHAVIOUR	LABEL	FILES
00162	Create InetSocketAddress object and connecting to it	socket	hh/c.java hh/l.java sdk/pendo/io/f3/b.java sdk/pendo/io/f3/h.java sdk/pendo/io/t4/b1.java
00163	Create new Socket and connecting to it	socket	hh/c.java hh/l.java sdk/pendo/io/f3/b.java sdk/pendo/io/f3/h.java sdk/pendo/io/t4/b1.java

RULE ID	BEHAVIOUR	LABEL	FILES
00013	Read file and put it into a stream	file	bb/f.java c5/g.java cb/d.java cg/p.java external/sdk/pendo/io/glide/load/a.java external/sdk/pendo/io/glide/load/model/FileLoader.java external/sdk/pendo/io/mozilla/javascript/tools/SourceReader.java external/sdk/pendo/io/mozilla/javascript/tools/debugger/Dim.java external/sdk/pendo/io/mozilla/javascript/tools/idswitch/Main.java external/sdk/pendo/io/mozilla/javascript/tools/shell/Global.java fb/a.java h4/d.java h4/d.java hb/b.java l8/p5.java mh/u.java n5/a.java n5/d.java n5/h.java n8/l6.java q8/i6.java q8/i6.java sdk/pendo/io/p/a.java sdk/pendo/io/t4/m1.java sdk/pendo/io/t4/m1.java
00012	Read data and put it into a buffer stream	file	c5/g.java sdk/pendo/io/t4/m1.java sdk/pendo/io/t4/n0.java

RULE ID	BEHAVIOUR	LABEL	FILES
00063	Implicit intent(view a web page, make a phone call, etc.)	control	com/irhythm/myzio/android/PushMessagingService.java ha/j.java j/g.java l5/p.java l5/q.java l5/r.java m5/m.java r0/a.java sdk/pendo/io/actions/handlers/PendoGlobalCommandHandler.java v7/e.java
00022	Open a file from given absolute path of the file	file	cb/d.java external/sdk/pendo/io/mozilla/javascript/tools/jsc/Main.java q6/a.java sdk/pendo/io/g9/h.java
00094	Connect to a URL and read data from it command network		external/sdk/pendo/io/mozilla/javascript/tools/shell/Global.java ha/j.java j/g.java q8/l3.java
00109	Connect to a URL and get the response code	network command	external/sdk/pendo/io/glide/load/data/HttpUrlFetcher.java external/sdk/pendo/io/mozilla/javascript/commonjs/module/provider/UrlModuleS ourceProvider.java j/g.java q/h.java q8/l3.java r7/b.java ub/c.java
00077	Read sensitive data(SMS, CALLLOG, etc)	collection sms calllog calendar	cc/a.java external/sdk/pendo/io/glide/load/data/mediastore/ThumbFetcher.java

RULE ID	BEHAVIOUR	LABEL	FILES
00089	Connect to a URL and receive input stream from the server	command network	external/sdk/pendo/io/glide/load/data/HttpUrlFetcher.java external/sdk/pendo/io/mozilla/javascript/commonjs/module/provider/UrlModuleS ourceProvider.java j/g.java q/h.java q8/l3.java ub/c.java
00030	Connect to the remote server through the given URL	network	external/sdk/pendo/io/glide/load/data/HttpUrlFetcher.java external/sdk/pendo/io/mozilla/javascript/commonjs/module/provider/UrlModuleS ourceProvider.java q8/l3.java
00108	Read the input stream from given URL	network command	j/g.java q8/l3.java
00114	Create a secure socket connection to the proxy address	network command	dh/l.java sdk/pendo/io/b3/f.java
00096	Connect to a URL and set request method	command network	q/h.java
00125	Check if the given file path exist	file	q/h.java
00091	Retrieve data from broadcast	collection	l8/p5.java
00075	Get location of the device	collection location	f/e.java
00137	Get last known location of the device	location collection	f/e.java
00130	Get the current WIFI information	wifi collection	sdk/pendo/io/l8/d.java

RULE ID	BEHAVIOUR	LABEL	FILES
00065	Get the country code of the SIM card provider	collection	sdk/pendo/io/l8/e.java
00051	Implicit intent(view a web page, make a phone call, etc.) via setData	control	ha/j.java m5/m.java v7/e.java
00014	Read file into a stream and put it into a JSON object	file	cb/d.java hb/b.java q8/i6.java
00005	Get absolute path of file and put it to JSON object	file	cb/d.java
00047	Query the local IP address	network collection	sdk/pendo/io/t4/e1.java
00191	Get messages in the SMS inbox	sms	k/g3.java
00036	Get resource file from res/raw directory	reflection	ha/j.java k/g3.java n6/c.java v7/e.java
00004	Get filename and put it to JSON object	file collection	q8/i6.java



TITLE	SEVERITY	DESCRIPTION
Firebase Remote Config disabled	secure	Firebase Remote Config is disabled for https://firebaseremoteconfig.googleapis.com/v1/projects/475193168757/namespaces/firebase:fetch? key=AlzaSyDaWpPJGbLq6QJFUCy3Q1M8P-3HhZNE2Kk. This is indicated by the response: {'state': 'NO_TEMPLATE'}

#### **\*: ::** ABUSED PERMISSIONS

ТҮРЕ	MATCHES	PERMISSIONS
Malware Permissions	5/25	android.permission.INTERNET, android.permission.ACCESS_NETWORK_STATE, android.permission.CAMERA, android.permission.VIBRATE, android.permission.WAKE_LOCK
Other Common Permissions	3/44	com.google.android.c2dm.permission.RECEIVE, com.google.android.gms.permission.AD_ID, com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE

#### **Malware Permissions:**

Top permissions that are widely abused by known malware.

#### **Other Common Permissions:**

Permissions that are commonly abused by known malware.

## • OFAC SANCTIONED COUNTRIES

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

DOMAIN	COUNTRY/REGION
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# **Q DOMAIN MALWARE CHECK**

DOMAIN	STATUS	GEOLOCATION
www.googleadservices.com	ok	IP: 142.250.189.2 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
goo.gle	ok	IP: 67.199.248.12 Country: United States of America Region: New York City: New York City Latitude: 40.739288 Longitude: -73.984955 View: Google Map
apache.org	ok	IP: 151.101.2.132 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map

DOMAIN	STATUS	GEOLOCATION
www.zetetic.net	ok	IP: 18.238.96.79 Country: United States of America Region: Washington City: Seattle Latitude: 47.627499 Longitude: -122.346199 View: Google Map
plus.google.com	ok	IP: 172.217.12.142 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
issuetracker.google.com	ok	IP: 142.251.40.46 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
data.eu.pendo.io	ok	IP: 34.110.214.126 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

DOMAIN	STATUS	GEOLOCATION
play.google.com	ok	IP: 142.250.188.238  Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
www.irhythmtech.com	ok	IP: 151.101.67.10 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
www.w3.org	ok	IP: 104.18.22.19 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
github.com	ok	IP: 140.82.113.3 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map

DOMAIN	STATUS	GEOLOCATION
firebase.google.com	ok	IP: 142.250.176.14  Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
videos.myzio.com	ok	IP: 18.238.96.35 Country: United States of America Region: Washington City: Seattle Latitude: 47.627499 Longitude: -122.346199 View: Google Map
developer.android.com	ok	IP: 172.217.14.110 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
help-dev.myzio.com	ok	IP: 18.238.109.83  Country: United States of America Region: Washington City: Seattle Latitude: 47.627499 Longitude: -122.346199 View: Google Map

DOMAIN	STATUS	GEOLOCATION
www.slf4j.org	ok	IP: 31.97.181.89  Country: United Kingdom of Great Britain and Northern Ireland Region: England City: Bowness-on-Windermere Latitude: 54.363312 Longitude: -2.918590 View: Google Map
app-measurement.com	ok	IP: 142.251.40.46 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
pagead2.googlesyndication.com	ok	IP: 142.251.40.34 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
www.myzio.co.uk	ok	IP: 18.238.96.71 Country: United States of America Region: Washington City: Seattle Latitude: 47.627499 Longitude: -122.346199 View: Google Map

DOMAIN	STATUS	GEOLOCATION
www.youtube.com	ok	IP: 142.250.72.174  Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
data.jpn.pendo.io	ok	IP: 34.149.195.87  Country: United States of America Region: Texas City: Houston Latitude: 29.941401 Longitude: -95.344498 View: Google Map
www.myzio.com	ok	IP: 18.238.109.51 Country: United States of America Region: Washington City: Seattle Latitude: 47.627499 Longitude: -122.346199 View: Google Map
127.0.0.1	ok	IP: 127.0.0.1  Country: -  Region: -  City: -  Latitude: 0.000000  Longitude: 0.000000  View: Google Map
javax.xml.xmlconstants	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
help.myzio.com	ok	IP: 18.155.173.12  Country: United States of America Region: Washington City: Seattle Latitude: 47.627499 Longitude: -122.346199 View: Google Map
www.gstatic.com	ok	IP: 142.251.40.35 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-settings.crashlytics.com	ok	IP: 142.250.176.3  Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
ktor.io	ok	IP: 13.224.53.49 Country: United States of America Region: Arizona City: Phoenix Latitude: 33.448380 Longitude: -112.074043 View: Google Map

DOMAIN	STATUS	GEOLOCATION
schemas.android.com	ok	No Geolocation information available.
data.pendo.io	ok	IP: 34.107.204.85  Country: United States of America Region: Missouri City: Kansas City Latitude: 39.099731 Longitude: -94.578568 View: Google Map
google.com	ok	IP: 142.250.176.14 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
goo.gl	ok	IP: 142.250.217.142 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
us1.data.pendo.io	ok	IP: 34.110.177.118  Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map



EMAIL	FILE
ck_received_xt_00004@myzio.com ck_finished_at_00003@myzio.com aring_shastaxt_00001@myzio.com ck_tracking_xt_00002@myzio.com ck_finished_xt_00003@myzio.com ock_wearing_at_00001@myzio.com ock_wearing_xt_00001@myzio.com ck_tracking_at_00002@myzio.com ck_tracking_at_00002@myzio.com eived_shastaxt_00004@myzio.com ished_shastaxt_00003@myzio.com ck_received_at_00004@myzio.com cking_shastaxt_00002@myzio.com	ud/b.java
jfrey@irhythmtech.com	zc/e.java
u0013android@android.com0 u0013android@android.com	v7/p.java

## A TRACKERS

TRACKER	CATEGORIES	URL
Google CrashLytics	Crash reporting	https://reports.exodus-privacy.eu.org/trackers/27
Google Firebase Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/49

TRACKER	CATEGORIES	URL
Pendo	Analytics	https://reports.exodus-privacy.eu.org/trackers/416

## HARDCODED SECRETS

# POSSIBLE SECRETS

"api\_host\_uk" : "api.myzio.co.uk"

"api\_host\_us" : "api.myzio.com"

"com.google.firebase.crashlytics.mapping\_file\_id": "93209691026443d284fe334e76521d06"

"google\_api\_key": "AlzaSyDaWpPJGbLq6QJFUCy3Q1M8P-3HhZNE2Kk"

"google\_crash\_reporting\_api\_key": "AlzaSyDaWpPJGbLq6QJFUCy3Q1M8P-3HhZNE2Kk"

"library\_android\_database\_sqlcipher\_authorWebsite": "https://www.zetetic.net/sqlcipher/"

41058363725152142129326129780047268409114441015993725554835256314039467401291

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Title: MyZio

Score: 4.6048055 Installs: 100,000+ Price: 0 Android Version Support: Category: Medical Play Store URL: com.irhythm.myzio.android

Developer Details: iRhythm Technologies, Inc., iRhythm+Technologies,+Inc., None, http://www.irhythmtech.com/contact-us, support@irhythmtech.com,

Release Date: Jul 12, 2017 Privacy Policy: Privacy link

#### **Description:**

MyZio® is the perfect companion app to the Zio® ECG monitor. Use the app to track your monitors shipping status, enter your symptoms, and access helpful information while wearing your Zio ECG monitor. Key Features: • Signup for a MyZio account anytime • Track your monitor's shipping status • Seamlessly register your

Zio ECG monitor and start logging symptoms. • Enter your symptoms. View and edit your symptoms as needed. • Access information about the Zio service. Instructional videos are included to help you throughout your Zio experience. \*Features vary by market and country

## **∷** SCAN LOGS

Timestamp	Event	Error
2025-08-30 22:14:00	Generating Hashes	ОК
2025-08-30 22:14:00	Extracting APK	OK
2025-08-30 22:14:00	Unzipping	OK
2025-08-30 22:14:00	Parsing APK with androguard	OK
2025-08-30 22:14:00	Extracting APK features using aapt/aapt2	OK
2025-08-30 22:14:00	Getting Hardcoded Certificates/Keystores	OK
2025-08-30 22:14:02	Parsing AndroidManifest.xml	ОК
2025-08-30 22:14:02	Extracting Manifest Data	OK

2025-08-30 22:14:02	Manifest Analysis Started	OK
2025-08-30 22:14:02	Performing Static Analysis on: MyZio (com.irhythm.myzio.android)	ОК
2025-08-30 22:14:02	Fetching Details from Play Store: com.irhythm.myzio.android	ОК
2025-08-30 22:14:02	Checking for Malware Permissions	ОК
2025-08-30 22:14:02	Fetching icon path	ОК
2025-08-30 22:14:03	Library Binary Analysis Started	ОК
2025-08-30 22:14:03	Reading Code Signing Certificate	ОК
2025-08-30 22:14:03	Running APKiD 2.1.5	ОК
2025-08-30 22:14:07	Detecting Trackers	ОК
2025-08-30 22:14:09	Decompiling APK to Java with JADX	ОК
2025-08-30 22:14:27	Converting DEX to Smali	ОК

2025-08-30 22:14:27	Code Analysis Started on - java_source	ОК
2025-08-30 22:14:32	Android SBOM Analysis Completed	OK
2025-08-30 22:14:46	Android SAST Completed	ОК
2025-08-30 22:14:46	Android API Analysis Started	ОК
2025-08-30 22:14:58	Android API Analysis Completed	ОК
2025-08-30 22:14:59	Android Permission Mapping Started	ОК
2025-08-30 22:15:09	Android Permission Mapping Completed	ОК
2025-08-30 22:15:09	Android Behaviour Analysis Started	ОК
2025-08-30 22:15:25	Android Behaviour Analysis Completed	ОК
2025-08-30 22:15:25	Extracting Emails and URLs from Source Code	ОК
2025-08-30 22:15:29	Email and URL Extraction Completed	ОК

2025-08-30 22:15:29	Extracting String data from APK	ОК
2025-08-30 22:15:29	Extracting String data from Code	OK
2025-08-30 22:15:29	Extracting String values and entropies from Code	ОК
2025-08-30 22:15:31	Performing Malware check on extracted domains	ОК
2025-08-30 22:15:34	Saving to Database	ОК

### Report Generated by - MobSF v4.4.0

Mobile Security Framework (MobSF) is an automated, all-in-one mobile application (Android/iOS/Windows) pen-testing, malware analysis and security assessment framework capable of performing static and dynamic analysis.

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