

### ANDROID STATIC ANALYSIS REPORT



**\Pi** Lunar (4.44.1)

File Name:	Lunar_base.apk
Package Name:	com.lunarway.app
Average CVSS Score:	7.1
App Security Score:	10/100 (CRITICAL RISK)
Trackers Detection:	4/407

Nov. 6, 2021, 7:56 p.m.



File Name: Lunar\_base.apk

Size: 46.55MB

Scan Date:

**MD5**: 5ab9d3f3d67c51abc2b0e9d12bd737de

**SHA1**: f65142aab7ea683501a5f0a2b5ffa62b87f8a726

SHA256: aee55f85c9d317933ac0e4c9375b6945a1e2073b775d1476696a33bc78ae0d7c

#### **i** APP INFORMATION

App Name: Lunar

Package Name: com.lunarway.app

Main Activity: com.lunarway.ui.signin.IntroActivity

Target SDK: 31 Min SDK: 23 Max SDK:

Android Version Name: 4.44.1

Android Version Code: 3004065

#### **EE** APP COMPONENTS

Activities: 79
Services: 15
Receivers: 18
Providers: 8

Exported Activities: 3
Exported Services: 3
Exported Receivers: 4
Exported Providers: 0

## **\*** CERTIFICATE INFORMATION

APK is signed

v1 signature: True v2 signature: True v3 signature: False

Found 1 unique certificates

Subject: C=DK, ST=Jylland, L=Aarhus, O=Lunar Way, OU=Lunar Way, CN=Lunar Way

Signature Algorithm: rsassa\_pkcs1v15 Valid From: 2016-02-05 10:41:54+00:00 Valid To: 2041-01-29 10:41:54+00:00

Issuer: C=DK, ST=Jylland, L=Aarhus, O=Lunar Way, OU=Lunar Way, CN=Lunar Way

Serial Number: 0x56e6e14a Hash Algorithm: sha256

md5: ed2037d152555ef4c2133f7fef305fdb

sha1: 10ffd5b745bc9f9c6fd4e9b5a2dfc8ca9c8653e2

sha256: 051a24073058caaf97699dc5eee5265b96855413b5dc99862a95ef5076685d1d

sha512: 239247f59c61f676f7a6b3db7bb1d131f44b8166a62f01274202c5dec1771d21baf180ad558e74eb16fc2d509760fa4de7b2fa16b0b76186e1bfbc03eb975999

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: aea8161f4725d280e9009660b5a14df05f928f65bb020b6acb0593518826cad1

STATUS	DESCRIPTION
secure	Application is signed with a code signing certificate
warning	Application is signed with v1 signature scheme, making it vulnerable to Janus vulnerability on Android <7.0

#### **⋮** APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
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.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.ACCESS_WIFI_STATE	normal	view Wi-Fi status	Allows an application to view the information about the status of Wi-Fi.
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.USE_BIOMETRIC	normal		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.READ_EXTERNAL_STORAGE	dangerous	read external storage contents	Allows an application to read from external storage.
android.permission.READ_CONTACTS	dangerous	read contact data	Allows an application to read all of the contact (address) data stored on your phone. Malicious applications can use this to send your data to other people.
android.permission.NFC	normal	control Near- Field Communication	Allows an application to communicate with Near-Field Communication (NFC) tags, cards and readers.
com.google.android.c2dm.permission.RECEIVE	signature	C2DM permissions	Permission for cloud to device messaging.

PERMISSION	STATUS	INFO	DESCRIPTION
com.lunarway.app.permission.C2D_MESSAGE	unknown	Unknown permission	Unknown permission from android reference
android.permission.RECEIVE_BOOT_COMPLETED	normal	automatically start at boot	Allows an application to start itself as soon as the system has finished booting. This can make it take longer to start the phone and allow the application to slow down the overall phone by always running.
android.permission.FOREGROUND_SERVICE	normal		Allows a regular application to use Service.startForeground.
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	unknown	Unknown permission	Unknown permission from android reference

# **命 APKID ANALYSIS**

FILE
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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 SIM operator check network operator name check ro.hardware check ro.kernel.qemu check			
	Anti Debug Code	Debug.isDebuggerConnected() check			
	Compiler	r8			
	FINDINGS	DETAILS			
classes2.dex	Anti-VM Code	Build.MANUFACTURER check possible VM check			
Compiler		r8 without marker (suspicious)			

FILE	DETAILS		
classes3.dex	FINDINGS	DETAILS	
Clussess.dex	Compiler	r8 without marker (suspicious)	

## BROWSABLE ACTIVITIES

ACTIVITY	INTENT
com.lunarway.ui.DeepLinkActivity	Schemes: lunarway://, https://, http://, Hosts: qr.nets.dk,
com.lunarway.ui.externalaccounts.ExternalAccountsRedirectActivity	Schemes: lunarway-external-accounts://,

## **△** NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION
1	skat.dk	high	Domain config is insecurely configured to permit clear text traffic to these domains in scope.
2	subaio.com	good	Certificate pinning does not have an expiry. Ensure that pins are updated before certificate expire.[Pin: PPqSMfht94cpmovcJ+bBEupcmKvGxPReeNoWsJL0Gok= Digest: SHA-256,Pin: cwiT9CwW75Y59Dphqf9rzPF+J31AWN2welWzhAUiJgo= Digest: SHA-256,Pin: PO7y+PL8YCAcEIZzhekzoFgkx92alB6HfHzanC7RDNI= Digest: SHA-256,Pin: CHPyrl5NSheizV81padL1pM4+TciQd4MJo2VRV7BzFc= Digest: SHA-256]

# **Q** MANIFEST ANALYSIS

NO	ISSUE	SEVERITY	DESCRIPTION
1	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.
2	Activity (com.lunarway.ui.DeepLinkActivity) is not Protected. [android:exported=true]	high	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 (com.lunarway.ui.transaction.TransactionAttachSharedFileInitializerActivity) is not Protected. [android:exported=true]	high	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
4	Activity (com.lunarway.ui.externalaccounts.ExternalAccountsRedirectActivity) is not Protected. [android:exported=true]	high	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 (com.appsflyer.MultipleInstallBroadcastReceiver) is not Protected. [android:exported=true]	high	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
6	Broadcast Receiver (com.lunarway.helpers.SMSBroadcastReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.gms.auth.api.phone.permission.SEND [android:exported=true]	high	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.
7	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]	high	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.
8	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]	high	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.

NO	ISSUE	SEVERITY	DESCRIPTION
9	Service (com.google.android.gms.auth.api.signin.RevocationBoundService) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.gms.auth.api.signin.permission.REVOCATION_NOTIFICATION [android:exported=true]	high	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.
10	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]	high	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.
11	Service (com.google.android.play.core.assetpacks.AssetPackExtractionService) is not Protected. [android:exported=true]	high	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.



NO	ISSUE	SEVERITY	STANDARDS	FILES
1	The App uses an insecure Random Number Generator.	warning	CVSS V2: 7.5 (high) CWE: CWE-330 Use of Insufficiently Random Values OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-6	v5/e.java com/lunarway/ui/pfm/PfmMonthCategor yGroupsHostLayout.java nm/a.java v5/b.java com/lunarway/ui/pfm/a0.java com/lunarway/ui/signin/SignInActivity.jav a s5/b.java com/lunarway/ui/views/CelebrationView.j ava com/lunarway/data/model/Environment.j ava v5/a.java f9/b.java com/lunarway/ui/views/k.java com/lunarway/ui/views/k.java com/lunarway/ui/game/moneygun/c.java om/a.java l7/o.java nm/b.java tn/d.java com/appsflyer/internal/d.java tn/h.java bo/app/q3.java gn/z.java jd/d.java
2	Weak Encryption algorithm used	high	CVSS V2: 7.4 (high) CWE: CWE-327 Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/lunarway/data/e.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
3	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	CVSS V2: 5.9 (medium) CWE: CWE-89 Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') OWASP Top 10: M7: Client Code Quality	h6/e0.java v1/a.java h6/b0.java h6/h0.java
4	App creates temp file. Sensitive information should never be written into a temp file.	warning	CVSS V2: 5.5 (medium) CWE: CWE-276 Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	wc/c.java aa/b.java com/lunarway/ui/camera/CameraXHostVi ew.java kf/m.java x2/j.java
				a9/h.java w3/c.java com/braze/support/BrazeLogger.java com/subaio/fintechbridge/i.java v4/e.java hn/b.java g5/d.java k5/b.java com/bumptech/glide/load/resource/bitm ap/d.java za/d.java com/bumptech/glide/c.java z1/y.java vb/g.java q0/d.java x0/e.java x4/f.java i0/l.java r0/k.java l8/f.java p4/e.java

NO	ISSUE	SEVERITY	STANDARDS	h0/d.java <b>Fd h25</b> umptech/glide/load/data/b.java
110	13302	JE V E	317(10)(10)	u4/k.java
				x8/m.java
ŀ				r8/i0.java
ŀ				y1/a.java
ŀ				com/intercom/twig/Twig.java
ŀ				ma/h.java
ŀ				q4/a.java
ŀ				vb/n.java
ŀ				r5/a.java
ŀ				i5/k.java
ŀ				ab/b.java
ŀ				I1/a.java
ŀ				f8/b.java
ŀ				f5/o.java
ŀ				r8/e0.java
ŀ				com/subaio/fintechbridge/h.java
ŀ				d6/a.java
ļ				com/bumptech/glide/load/resource/bitm
ŀ				ap/a0.java
ŀ				o1/c.java
ŀ				f5/r.java
ŀ				v9/i.java
ŀ				i5/d.java
ŀ				com/bumptech/glide/load/resource/bitm
ŀ				ap/r.java
ŀ				ed/c.java
ŀ				f8/c.java
ŀ				r0/e.java
ŀ				com/bumptech/glide/load/engine/i.java
ŀ				com/appsflyer/AFLogger.java
ŀ				com/bumptech/glide/GeneratedAppGlide
ŀ				ModuleImpl.java
ŀ				e/a.java
ŀ				com/bumptech/glide/load/resource/bitm
ŀ				ap/c.java
ŀ				d5/a.java
ŀ				s4/e.java
ŀ				ia/a.java
ŀ				la/a.java

NO	ISSUE	SEVERITY	STANDARDS	q0/c.java <b>FdhÆ6</b> umptech/glide/load/engine/j.java a1/c.java
5	The App logs information. Sensitive information should never be logged.	info	CVSS V2: 7.5 (high) CWE: CWE-532 Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	f5/p.java i0/o.java d5/d.java ii/g.java m0/e.java r0/g.java com/subaio/fintechbridge/j.java vi/c.java x8/l.java r0/c.java com/bumptech/glide/load/engine/GlideEx ception.java x8/f.java f8/a.java com/bumptech/glide/load/resource/bitm ap/n.java z1/i0.java f5/s.java v4/i.java m0/b.java b6/i.java s4/c.java com/bumptech/glide/load/engine/v.java h1/c.java zendesk/belvedere/d.java r8/u.java x4/d.java z4/a.java da/a.java com/bumptech/glide/load/resource/bitm ap/m.java m0/c.java u4/j.java com/subaio/fintechbridge/c.java r0/f.java f5/e.java m5/a.java

NO	ISSUE	SEVERITY	STANDARDS	com/bumptech/glide/load/resource/bitm
				d5/j.java com/bumptech/glide/load/engine/h.java
				com/bumptech/glide/request/j.java
				x0/j.java
				q0/h.java
				bd/c.java
				u8/a.java
				w4/a.java
				x4/s.java
				f2/i.java
				k9/z.java
				o8/e.java
				zendesk/belvedere/BelvedereFileProvider.
				java
				com/bumptech/glide/load/data/j.java
				com/bumptech/glide/load/resource/bitm
				ap/c0.java
				cb/h.java
				xb/f.java
				o8/b.java
				zendesk/belvedere/j.java
				x4/t.java
				w8/a.java
				r8/r.java
				nb/a.java
				j/c.java
				k0/f.java
				com/bumptech/glide/load/data/l.java
				com/pdfview/subsamplincscaleimageview
				/decoder/SkiaPooledImageRegionDecoder
				.java
				p9/e0.java
				c0/b.java
				p1/a.java
				com/romainpiel/shimmer/c.java
				com/polyak/iconswitch/g.java
				wc/b.java
				butterknife/ButterKnife.java
				batter Killie/ Batter Killie.java

NO	ISSUE	SEVERITY	STANDARDS	n8/a.java <b>Fal⁄ulf£s</b> va u1/c.java
				qn/c.java f5/f.java bo/app/q1.java ca/a.java xc/c.java r0/j.java x4/c.java com/airbnb/lottie/LottieAnimationView.ja
6	Insecure WebView Implementation. Execution of user controlled code in WebView is a critical Security Hole.	warning	CVSS V2: 8.8 (high) CWE: CWE-749 Exposed Dangerous Method or Function OWASP Top 10: M1: Improper Platform Usage OWASP MASVS: MSTG-PLATFORM-7	va pd/d/jamarway/ui/views/k0.java com/សេងល់ស្កាវនេះ៤៤៤៧ខែខ្លួសន់ខាងខេត្តy/Nem IdView.java com/subaio/fintechbridge/c.java com/lunarway/ui/topup/TopUp3DSecure dTransactionHostLayout.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
7	Files may contain hardcoded sensitive information like usernames, passwords, keys etc.	warning	CVSS V2: 7.4 (high) CWE: CWE-312 Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	e3/m.java com/lunarway/data/api/ReleaseApiModul e.java com/appsflyer/AppsFlyerProperties.java com/appboy/Constants.java com/appboy/models/outgoing/TwitterUse r.java e3/j.java com/appboy/enums/CardKey.java com/lunarway/data/model/flow/FlowScre en.java com/lunarway/data/api/ApiModule.java com/lunarway/data/api/ApiModule.java com/appboy/models/outgoing/Attribution Data.java e3/k.java lg/e.java r4/d.java com/braze/support/StringUtils.java com/braze/models/inappmessage/InApp MessageHtml.java com/bumptech/glide/load/engine/d.java j3/l.java j7/a.java bc/d.java com/appboy/models/outgoing/Facebook User.java com/bumptech/glide/load/engine/t.java com/bumptech/glide/load/engine/t.java
8	The App uses the encryption mode CBC with PKCS5/PKCS7 padding. This configuration is vulnerable to padding oracle attacks.		CVSS V2: 7.4 (high) CWE: CWE-649 Reliance on Obfuscation or Encryption of Security-Relevant Inputs without Integrity Checking OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-3	com/lunarway/helpers/CryptoHelper.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
9	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	CVSS V2: 0 (info) OWASP MASVS: MSTG-NETWORK-4	com/lunarway/data/api/ApiModule.java p5/f.java zd/m4.java p5/a.java
10	MD5 is a weak hash known to have hash collisions.	warning	CVSS V2: 7.4 (high) CWE: CWE-327 Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/braze/support/StringUtils.java com/appsflyer/internal/ah.java
11	This App may have root detection capabilities.	secure	CVSS V2: 0 (info) OWASP MASVS: MSTG-RESILIENCE-1	nb/q.java
12	SHA-1 is a weak hash known to have hash collisions.	warning	CVSS V2: 5.9 (medium) CWE: CWE-327 Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/appsflyer/internal/ah.java wc/b.java
13	This App copies data to clipboard. Sensitive data should not be copied to clipboard as other applications can access it.	info	CVSS V2: 0 (info) OWASP MASVS: MSTG-STORAGE-10	ki/a.java



NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
1	lib/x86/librealm-jni.so	True info The shared object has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable.	True info This shared object 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.	False info The shared object does not have run-time search path or RPATH set.	False info The shared object does not have RUNPATH set.	False warning The shared object 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.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
2	lib/armeabi-v7a/librealm- jni.so	True info The shared object has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable.	True info This shared object 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.	False info The shared object does not have run-time search path or RPATH set.	False info The shared object does not have RUNPATH set.	False warning The shared object 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.	True info Symbols are stripped.

NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
3	lib/x86_64/librealm-jni.so	True info The shared object has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable.	True info This shared object 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.	False info The shared object does not have run-time search path or RPATH set.	False info The shared object does not have RUNPATH set.	True info The shared object has the following fortified functions: ['memcpy_chk', 'memmove_chk', 'strlen_chk', 'read_chk', 'strchr_chk', 'vsprintf_chk', 'vsnprintf_chk']	True info Symbols are stripped.

NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
4	lib/arm64-v8a/librealm-jni.so	True info The shared object has NX bit set. This marks a memory page non- executable making attacker injected shellcode non- executable.	True info This shared object 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.	False info The shared object does not have run-time search path or RPATH set.	False info The shared object does not have RUNPATH set.	True info The shared object has the following fortified functions: ['memcpy_chk', 'memmove_chk', 'strlen_chk', 'read_chk', 'strchr_chk', 'vsprintf_chk', 'vsnprintf_chk']	True info Symbols are stripped.

# ■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
1	FCS_RBG_EXT.1.1	Security Functional Requirements	Random Bit Generation Services	The application invoke platform-provided DRBG functionality for its cryptographic operations.
2	FCS_STO_EXT.1.1	Security Functional Requirements	Storage of Credentials	The application does not store any credentials to non-volatile memory.
3	FCS_CKM_EXT.1.1	Security Functional Requirements	Cryptographic Key Generation Services	The application implement asymmetric key generation.
4	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to ['NFC', 'network connectivity', 'camera'].
5	FDP_DEC_EXT.1.2	Security Functional Requirements	Access to Platform Resources	The application has access to ['address book'].
6	FDP_NET_EXT.1.1	Security Functional Requirements	Network Communications	The application has user/application initiated network communications.
7	FDP_DAR_EXT.1.1	Security Functional Requirements	Encryption Of Sensitive Application Data	The application implement functionality to encrypt sensitive data in non-volatile memory.
8	FMT_MEC_EXT.1.1	Security Functional Requirements	Supported Configuration Mechanism	The application invoke the mechanisms recommended by the platform vendor for storing and setting configuration options.
9	FTP_DIT_EXT.1.1	Security Functional Requirements	Protection of Data in Transit	The application does encrypt some transmitted data with HTTPS/TLS/SSH between itself and another trusted IT product.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
10	FCS_RBG_EXT.2.1,FCS_RBG_EXT.2.2	Selection-Based Security Functional Requirements	Random Bit Generation from Application	The application perform all deterministic random bit generation (DRBG) services in accordance with NIST Special Publication 800-90A using Hash_DRBG. The deterministic RBG is seeded by an entropy source that accumulates entropy from a platform-based DRBG and a software-based noise source, with a minimum of 256 bits of entropy at least equal to the greatest security strength (according to NIST SP 800-57) of the keys and hashes that it will generate.
11	FCS_COP.1.1(1)	Selection-Based Security Functional Requirements	Cryptographic Operation - Encryption/Decryption	The application perform encryption/decryption in accordance with a specified cryptographic algorithm AES-CBC (as defined in NIST SP 800-38A) mode or AES-GCM (as defined in NIST SP 800-38D) and cryptographic key sizes 256-bit/128-bit.
12	FCS_COP.1.1(2)	Selection-Based Security Functional Requirements	Cryptographic Operation - Hashing	The application perform cryptographic hashing services not in accordance with FCS_COP.1.1(2) and uses the cryptographic algorithm RC2/RC4/MD4/MD5.
13	FCS_COP.1.1(3)	Selection-Based Security Functional Requirements	Cryptographic Operation - Signing	The application perform cryptographic signature services (generation and verification) in accordance with a specified cryptographic algorithm ECDSA schemes using "NIST curves" P-256, P-384.
14	FCS_COP.1.1(4)	Selection-Based Security Functional Requirements	Cryptographic Operation - Keyed- Hash Message Authentication	The application perform keyed-hash message authentication with cryptographic algorithm ['HMAC-SHA-256'] .
15	FCS_HTTPS_EXT.1.1	Selection-Based Security Functional Requirements	HTTPS Protocol	The application implement the HTTPS protocol that complies with RFC 2818.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
16	FCS_HTTPS_EXT.1.2	Selection-Based Security Functional Requirements	HTTPS Protocol	The application implement HTTPS using TLS.
17	FCS_HTTPS_EXT.1.3	Selection-Based Security Functional Requirements	HTTPS Protocol	The application notify the user and not establish the connection or request application authorization to establish the connection if the peer certificate is deemed invalid.
18	FIA_X509_EXT.1.1	Selection-Based Security Functional Requirements	X.509 Certificate Validation	The application invoked platform-provided functionality to validate certificates in accordance with the following rules: ['The certificate path must terminate with a trusted CA certificate'].
19	FIA_X509_EXT.2.1	Selection-Based Security Functional Requirements	X.509 Certificate Authentication	The application use X.509v3 certificates as defined by RFC 5280 to support authentication for HTTPS , TLS.
20	FPT_TUD_EXT.2.1	Selection-Based Security Functional Requirements	Integrity for Installation and Update	The application shall be distributed using the format of the platform-supported package manager.

## **Q DOMAIN MALWARE CHECK**

DOMAIN	STATUS	GEOLOCATION

DOMAIN	STATUS	GEOLOCATION
gateway.paylike.io	good	IP: 18.156.24.226 Country: Germany Region: Hessen City: Frankfurt am Main Latitude: 50.115520 Longitude: 8.684170 View: Google Map
applet.danid.dk	good	IP: 104.89.34.27 Country: Germany Region: Hessen City: Frankfurt am Main Latitude: 50.115520 Longitude: 8.684170 View: Google Map
sregister.s	good	No Geolocation information available.
tools.android.com	good	IP: 142.250.74.51 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
firebase-settings.crashlytics.com	good	IP: 142.250.74.35 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

DOMAIN	STATUS	GEOLOCATION
aomedia.org	good	IP: 185.199.110.153  Country: United States of America Region: Pennsylvania City: California Latitude: 40.065632 Longitude: -79.891708 View: Google Map
www.braze.com	good	IP: 151.101.193.208  Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
plus.google.com	good	IP: 216.58.207.206 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
pagead2.googlesyndication.com	good	IP: 142.250.74.130 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

DOMAIN	STATUS	GEOLOCATION
cert-backup.prod.lunarway.com	good	IP: 52.18.132.203 Country: Ireland Region: Dublin City: Dublin Latitude: 53.343990 Longitude: -6.267190 View: Google Map
sstats.s	good	No Geolocation information available.
developer.android.com	good	IP: 142.250.74.46 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
sdlsdk.s	good	No Geolocation information available.
www.youtube.com	good	IP: 142.250.74.14 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

DOMAIN	STATUS	GEOLOCATION
sdk.iad-01.braze.com	good	IP: 199.232.41.208 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
api.prod.lunarway.com	good	IP: 54.229.239.33 Country: Ireland Region: Dublin City: Dublin Latitude: 53.343990 Longitude: -6.267190 View: Google Map
hqifzs7emh.execute-api.eu-west-1.amazonaws.com	good	IP: 143.204.47.100 Country: Norway Region: Oslo City: Oslo Latitude: 59.912731 Longitude: 10.746090 View: Google Map
www.e-conomic.dk	good	IP: 104.18.1.91 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
simpression.s	good	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
www.billy.dk	good	IP: 76.76.21.21 Country: United States of America Region: California City: Walnut Latitude: 34.015400 Longitude: -117.858223 View: Google Map
svalidate.s	good	No Geolocation information available.
www.lunar.app	good	IP: 143.204.47.10 Country: Norway Region: Oslo City: Oslo Latitude: 59.912731 Longitude: 10.746090 View: Google Map
play.google.com	good	IP: 142.250.74.78 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
sonelink.s	good	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
ars.appsflyer.com	good	IP: 34.247.125.120 Country: Ireland Region: Dublin City: Dublin Latitude: 53.343990 Longitude: -6.267190 View: Google Map
cert.prod.lunarway.com	good	IP: 52.18.132.203 Country: Ireland Region: Dublin City: Dublin Latitude: 53.343990 Longitude: -6.267190 View: Google Map
psdev.de	good	IP: 5.9.31.240 Country: Germany Region: Bayern City: Nuremberg Latitude: 49.447781 Longitude: 11.068330 View: Google Map
ns.adobe.com	good	No Geolocation information available.
update.crashlytics.com	good	IP: 142.250.74.3  Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

DOMAIN	STATUS	GEOLOCATION
console.firebase.google.com	good	IP: 142.250.74.46 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
cdn.prod.lunarway.com	good	IP: 143.204.47.83  Country: Norway  Region: Oslo  City: Oslo  Latitude: 59.912731  Longitude: 10.746090  View: Google Map
twitter.com	good	IP: 104.244.42.1 Country: United States of America Region: California City: San Francisco Latitude: 37.773968 Longitude: -122.410446 View: Google Map
static-assets.prod.lunarway.com	good	IP: 54.229.239.33 Country: Ireland Region: Dublin City: Dublin Latitude: 53.343990 Longitude: -6.267190 View: Google Map

DOMAIN	STATUS	GEOLOCATION
www.instagram.com	good	IP: 157.240.200.174 Country: Denmark Region: Hovedstaden City: Copenhagen Latitude: 55.675941 Longitude: 12.565530 View: Google Map
dinero.dk	good	IP: 162.159.134.42 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
sondheim.braze.com	good	IP: 151.101.129.208  Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
pixabay.com	good	IP: 104.18.21.183 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map

DOMAIN	STATUS	GEOLOCATION
developer.apple.com	good	IP: 17.253.107.201 Country: Denmark Region: Hovedstaden City: Ballerup Latitude: 55.731651 Longitude: 12.363280 View: Google Map
sinapps.s	good	No Geolocation information available.
www.snapchat.com	good	IP: 142.250.74.147  Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
realm.io	good	IP: 143.204.98.33 Country: Germany Region: Hessen City: Frankfurt am Main Latitude: 50.115520 Longitude: 8.684170 View: Google Map
slaunches.s	good	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
lunarway.com	good	IP: 143.204.47.108 Country: Norway Region: Oslo City: Oslo Latitude: 59.912731 Longitude: 10.746090 View: Google Map
cert-new.prod.lunarway.com	good	No Geolocation information available.
schemas.android.com	good	No Geolocation information available.
accounts.google.com	good	IP: 142.250.74.109 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
overmind.datatheorem.com	good	IP: 142.250.74.147  Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

DOMAIN	STATUS	GEOLOCATION
issuetracker.google.com	good	IP: 142.250.74.78  Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
sgcdsdk.s	good	No Geolocation information available.
sconversions.s	good	No Geolocation information available.
reports.crashlytics.com	good	No Geolocation information available.
www.facebook.com	good	IP: 157.240.200.35 Country: Denmark Region: Hovedstaden City: Copenhagen Latitude: 55.675941 Longitude: 12.565530 View: Google Map
static-assets.dev.lunarway.com	good	IP: 52.212.43.131 Country: Ireland Region: Dublin City: Dublin Latitude: 53.343990 Longitude: -6.267190 View: Google Map

DOMAIN	STATUS	GEOLOCATION
github.com	good	IP: 140.82.121.4  Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203  View: Google Map
sapp.s	good	No Geolocation information available.
ssdk-services.s	good	No Geolocation information available.
sadrevenue.s	good	No Geolocation information available.
xmlpull.org	good	IP: 74.50.62.60 Country: United States of America Region: Texas City: Dallas Latitude: 32.814899 Longitude: -96.879204 View: Google Map
sattr.s	good	No Geolocation information available.
www.w3.org	good	IP: 128.30.52.100 Country: United States of America Region: Massachusetts City: Cambridge Latitude: 42.365078 Longitude: -71.104523 View: Google Map

DOMAIN	STATUS	GEOLOCATION
smonitorsdk.s	good	No Geolocation information available.
lunar-way.firebaseio.com	good	IP: 35.201.97.85  Country: United States of America Region: Missouri City: Kansas City Latitude: 39.099731 Longitude: -94.578568 View: Google Map
cert-rogue.prod.lunarway.com	good	IP: 52.18.132.203 Country: Ireland Region: Dublin City: Dublin Latitude: 53.343990 Longitude: -6.267190 View: Google Map
lunarway-prod-cdn.s3-eu-west-1.amazonaws.com	good	IP: 52.218.112.136 Country: Ireland Region: Dublin City: Dublin Latitude: 53.343990 Longitude: -6.267190 View: Google Map



URL	FILE
https://developer.android.com/reference/com/google/android/play/core/assetpacks/model/AssetPackErrorCode.html#	jb/a.java
file:/// file:///android_asset/	vi/a.java
https://aomedia.org/emsg/ID3 https://developer.apple.com/streaming/emsg-id3	f7/a.java
http://schemas.android.com/apk/res/android	q0/i.java
http://localhost/	retrofit2/Response.java
http://ns.adobe.com/xap/1.0/	v6/a.java
https://developer.android.com/reference/com/google/android/play/core/install/model/InstallErrorCode#	mb/a.java
https://console.firebase.google.com	ed/b.java
https://firebase-settings.crashlytics.com/spi/v2/platforms/android/gmp/%s/settings	gc/d.java
https://update.crashlytics.com/spi/v1/platforms/android/apps https://update.crashlytics.com/spi/v1/platforms/android/apps/%s https://reports.crashlytics.com/spi/v1/platforms/android/apps/%s/reports https://reports.crashlytics.com/sdk-api/v1/platforms/android/apps/%s/minidumps	gc/h.java
https://pagead2.googlesyndication.com/pagead/gen_204?id=gmob-apps	f8/b.java
https://play.google.com/store/apps/details?id=	ue/j1.java

URL	FILE
https://static-assets.dev.lunarway.com/ https://static-assets.prod.lunarway.com/	ue/o2.java
http://tools.android.com/tech-docs/new-build-system/user-guide/manifest-merger	zendesk/belvedere/j.java
https://plus.google.com/	r8/k0.java
http://psdev.de/LicensesDialog	kj/e.java
http://xmlpull.org/v1/doc/features.html#process-namespaces	kj/g.java
data:image	x4/e.java
https://lunarway-prod-cdn.s3-eu-west-1.amazonaws.com/pfm/yearlyreport/month-january.jpg https://lunarway-prod-cdn.s3-eu-west-1.amazonaws.com/pfm/yearlyreport/month-february.jpg https://lunarway-prod-cdn.s3-eu-west-1.amazonaws.com/pfm/yearlyreport/month-march.jpg https://lunarway-prod-cdn.s3-eu-west-1.amazonaws.com/pfm/yearlyreport/month-april.jpg https://lunarway-prod-cdn.s3-eu-west-1.amazonaws.com/pfm/yearlyreport/month-june.jpg https://lunarway-prod-cdn.s3-eu-west-1.amazonaws.com/pfm/yearlyreport/month-juli.jpg https://lunarway-prod-cdn.s3-eu-west-1.amazonaws.com/pfm/yearlyreport/month-august.jpg https://lunarway-prod-cdn.s3-eu-west-1.amazonaws.com/pfm/yearlyreport/month-september.jpg https://lunarway-prod-cdn.s3-eu-west-1.amazonaws.com/pfm/yearlyreport/month-october.jpg https://lunarway-prod-cdn.s3-eu-west-1.amazonaws.com/pfm/yearlyreport/month-november.jpg https://lunarway-prod-cdn.s3-eu-west-1.amazonaws.com/pfm/yearlyreport/month-november.jpg	rh/a.java
https://issuetracker.google.com/issues/139371066	x2/j.java
https://%s/%s/%s	xc/c.java
https://accounts.google.com/o/oauth2/revoke?token=	l8/e.java

URL	FILE
https://lunarway.com	zd/m4.java
https://github.com/ReactiveX/RxJava/wiki/What's-different-in-2.0#error-handling	io/reactivex/exceptions/UndeliverableException.java
https://github.com/ReactiveX/RxJava/wiki/Error-Handling	io/reactivex/rxjava3/exceptions/OnErrorNotImplementedE xception.java
https://github.com/ReactiveX/RxJava/wiki/What's-different-in-2.0#error-handling	io/reactivex/rxjava3/exceptions/UndeliverableException.ja va
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/rxjava3/core/q.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/rxjava3/core/f.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/rxjava3/core/j.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/rxjava3/core/z.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/rxjava3/core/b.java
https://realm.io/news/android-installation-change/ https://realm.io/docs/java/latest/#rxjava	io/realm/d0.java
https://issuetracker.google.com/issues/36918154	io/realm/z.java
https://realm.io/docs/java/latest/#rxjava	io/realm/i0.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	sj/d.java
https://%sdlsdk.%s/v1.0/android/	com/appsflyer/internal/ar.java

URL	FILE
https://%sgcdsdk.%s/install_data/v4.0/	com/appsflyer/internal/bv.java
https://ars.appsflyer.com/api/v1/android/validate_subscription	com/appsflyer/internal/av.java
https://%smonitorsdk.%s/remote-debug?app_id=	com/appsflyer/internal/aj.java
https://%sonelink.%s/shortlink-sdk/	com/appsflyer/internal/am.java
https://%sstats.%s/stats https://%sadrevenue.%s/api/v https://%sconversions.%s/api/v https://%slaunches.%s/api/v https://%sinapps.%s/api/v https://%sattr.%s/api/v	com/appsflyer/internal/ai.java
https://%sregister.%s/api/v	com/appsflyer/internal/bq.java
https://%ssdk-services.%s/validate-android-signature https://%svalidate.%s/api/v	com/appsflyer/internal/z.java
https://%sapp.%s	com/appsflyer/internal/co.java
https://%simpression.%s	com/appsflyer/share/CrossPromotionHelper.java
https://%s/%s	com/appsflyer/share/LinkGenerator.java
file:///android_asset/	com/pdfview/subsamplincscaleimageview/decoder/SkiaImageRegionDecoder.java
file:///android_asset/	com/pdfview/subsamplincscaleimageview/decoder/SkiaImageDecoder.java

URL	FILE
file:///android_asset/	com/pdfview/subsamplincscaleimageview/decoder/SkiaPo oledImageRegionDecoder.java
file:///	com/braze/ui/inappmessage/views/f.java
https://sondheim.braze.com/api/v3/ https://sdk.iad-01.braze.com/api/v3/	com/braze/configuration/BrazeConfigurationProvider.java
https://www.braze.com/docs/developer_guide/platform_integration_guides/android/initial_sdk_setup/a ndroid_sdk_integration/	com/appboy/Appboy.java
http://schemas.android.com/apk/res/android	com/alimuzaffar/lib/pin/PinEntryEditText.java
https://overmind.datatheorem.com/trustkit/report	com/datatheorem/android/trustkit/config/a.java
https://cdn.prod.lunarway.com/internationaltransfer/flags/DK.png https://cdn.prod.lunarway.com/internationaltransfer/flags/NO.png https://cdn.prod.lunarway.com/internationaltransfer/flags/SE.png	com/lunarway/data/model/Country.java
https://gateway.paylike.io/acs-response https://gateway.paylike.io/ https://pixabay.com/ https://lunarway.com	com/lunarway/data/api/ApiModule.java
https://pixabay.com/api/?key=3388113-bb02b50a482400866f9637197&safesearch=true&orientation=horizontal&response_group=high_resolution&per_page=75ℑ_type=photo	com/lunarway/data/api/PixabayEndpoints.java
https://cert-backup.prod.lunarway.com/ping https://cert-new.prod.lunarway.com/ping https://cert.prod.lunarway.com/ping https://cert-rogue.prod.lunarway.com/ping	com/lunarway/data/api/LunarEndpoints.java

URL	FILE
https://api.prod.lunarway.com https://applet.danid.dk/launcher/lmt/ https://hqifzs7emh.execute-api.eu-west-1.amazonaws.com/prod/operation-status https://api.prod.lunarway.com/signicat	com/lunarway/data/api/ReleaseApiModule.java
https://static-assets.prod.lunarway.com/da/docs/brugerbetingelser-crypto/	com/lunarway/ui/crypto/flow/CryptoLiteracyFlowIntroHos tLayout.java
https://www.billy.dk/support/article/saadan-opretter-du-en-api-noegle-adgangsnoegle/	com/lunarway/ui/business/integration/billy/BusinessInteg rationBillyFlowKeyHostLayout.java
https://www.billy.dk/	com/lunarway/ui/business/integration/billy/BusinessInteg rationBillyBoardingHostLayout.java
https://static-assets.prod.lunarway.com/bank/da/business-thirdparty-integration-consent/	com/lunarway/ui/business/integration/billy/BusinessInteg rationBillyFlowTermsHostLayout.java
https://www.billy.dk/apps/lunar/	com/lunarway/ui/business/integration/billy/BusinessInteg rationBillyFlowStartHostLayout.java
https://static-assets.prod.lunarway.com/bank/da/business-thirdparty-integration-consent/	com/lunarway/ui/business/integration/dinero/BusinessInt egrationDineroFlowTermsHostLayout.java
https://dinero.dk/	com/lunarway/ui/business/integration/dinero/BusinessInt egrationDineroBoardingHostLayout.java
https://dinero.dk/integrationer/lunar/	com/lunarway/ui/business/integration/dinero/BusinessInt egrationDineroFlowKeyHostLayout.java
https://dinero.dk/support/bankafstemning-dinero/	com/lunarway/ui/business/integration/dinero/BusinessInt egrationDineroFlowStartHostLayout.java

URL	FILE
https://www.e-conomic.dk/	com/lunarway/ui/business/integration/economic/Business IntegrationEconomicBoardingHostLayout.java
https://www.lunar.app/dk/privatlivspolitik/ https://www.lunar.app/se/privacy-policy https://www.lunar.app/no/privacy-policy	com/lunarway/ui/signin/IntroActivity.java
file://%s	com/lunarway/ui/pdf/a.java
javascript:setDetails(	com/lunarway/ui/card/CardDetailsHostLayout.java
data:n})}),!0},addHandler:function(n){r=r.concat(n)}}}(window);	com/subaio/fintechbridge/c.java
http://www.w3.org/ns/ttml#parameter	u7/c.java
https://lunar-way.firebaseio.com https://static-assets.prod.lunarway.com/how-does-it-work50/ www.lunar.app/download https://www.lunar.app/en/business/ https://www.youtube.com/watch?v=vySsgqvJxdA https://www.facebook.com/LunarWay https://www.facebook.com/LunarWay https://www.instagram.com/lunar/ https://www.snapchat.com/add/lunarway https://twitter.com/lunarbank https://www.lunar.app https://static-assets.prod.lunarway.com/da/how-does-it-work50/ https://www.lunar.app/dk/business/ https://www.lunar.app/dk/hjaelp/travel-card https://www.facebook.com/LunarDanmark https://www.facebook.com/LunarNorge/ https://www.facebook.com/LunarNorge/ https://www.facebook.com/LunarSverige	Android String Resource

URL	FILE
https://github.com/realm/realm-core/issues/new/choose	lib/x86/librealm-jni.so
https://github.com/realm/realm-core/issues/new/choose	lib/armeabi-v7a/librealm-jni.so
https://github.com/realm/realm-core/issues/new/choose	lib/x86_64/librealm-jni.so
https://github.com/realm/realm-core/issues/new/choose	lib/arm64-v8a/librealm-jni.so

### FIREBASE DATABASES

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

### **EMAILS**

EMAIL	FILE
pro100svitlo@gmail.com	wi/a.java

EMAIL	FILE
your@email.com name@acme.com some@mail.com din@email.dk navn@firma.com din@email.com	Android String Resource

### **TRACKERS**

TRACKER	CATEGORIES	URL
AppsFlyer	Analytics	https://reports.exodus-privacy.eu.org/trackers/12
Braze (formerly Appboy)	Analytics, Advertisement, Location	https://reports.exodus-privacy.eu.org/trackers/17
Google CrashLytics	Crash reporting	https://reports.exodus-privacy.eu.org/trackers/27
Google Firebase Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/49

### HARDCODED SECRETS

#### **POSSIBLE SECRETS**

"approve\_oauth\_login\_timer\_expired\_alert\_info": "The login attempt was declined because you didn't approve it in time."

"approve\_oauth\_login\_timer\_expired\_alert\_title" : "Time's up. The login attempt was declined."

# **POSSIBLE SECRETS** "business\_tier\_switch\_user" : "Switch user" "com\_appboy\_image\_lru\_cache\_image\_url\_key": "com\_appboy\_image\_lru\_cache\_image\_url\_key" "com\_braze\_image\_is\_read\_tag\_key": "com\_appboy\_image\_is\_read\_tag\_key" "com\_braze\_image\_resize\_tag\_key": "com\_appboy\_image\_resize\_tag\_key" "easy\_account\_lunar\_bank\_private\_benefit\_item\_1": "Get paid money from the government directly to your Lunar account" "easy\_account\_lunar\_bank\_private\_benefit\_item\_2" : "Get notified when money goes in" "external\_account\_notification\_auth\_info" : "Follow the instructions given by the connected bank or click to cancel" "external account notification auth title": "Connect bank" "firebase\_database\_url": "https://lunar-way.firebaseio.com" "google\_api\_key": "AlzaSyDAbuJbZSB8ZPETkzcVgCUhbq-veq2Luh8" "google\_crash\_reporting\_api\_key": "AlzaSyDAbuJbZSB8ZPETkzcVgCUhbq-veq2Luh8" "insurance\_grow\_travel\_details\_coverage\_private\_liability\_info": "If you have an accident, and if you injure someone or something, you are of course covered." "insurance\_grow\_travel\_details\_coverage\_private\_liability\_title": "Private liability" "invest\_boarding\_authenticate\_button": "Confirm Identity" "invest boarding authenticate info": "The last thing we need you to do is to confirm your application with your identity. It only takes a few seconds, and then you're done with your application."

## **POSSIBLE SECRETS** "invest\_boarding\_authenticate\_title": "You're almost there" "invest\_boarding\_completed\_authenticate\_button" : "Confirm Identity" "invest\_boarding\_v2\_occupation\_privately\_employed\_title": "Privately employed" "invest\_instrument\_buy\_authenticate\_button": "Confirm" "invest\_instrument\_buy\_authenticate\_info": "Before you can review your order, you must confirm your identity. Don't worry, the order is not placed before you expli citly slide to buy." "invest instrument buy authenticate title": "Review order" "invest\_instrument\_buy\_authenticate\_unable\_to\_authenticate": "We are unable confirm your identity at the moment. Please contact our Support team." "invest\_withdraw\_authenticate\_button": "Confirm Identity" "invest\_withdraw\_authenticate\_info": "To withdraw money from your investment account, we must confirm your identity." "invest\_withdraw\_authenticate\_title": "Withdraw money" "movemoney\_international\_transfer\_beneficiary\_info\_type\_private": "Private person" "movemoney\_international\_transfer\_beneficiary\_info\_type\_private\_name": "Full name of the recipient" "nemid\_MultipleSessions": "You're only allowed to login with NemID on a single device at a time. Please log in with NemID on once device, log out and log in on the o ther device." "nemid\_SessionTimeout": "NemID has timed out. Please try again." "nemid\_WrongPassword": "You've mistyped your code too many times. NemID access has been permanently quarantined."



## **POSSIBLE SECRETS** "split\_select\_connection\_lunar\_way\_user": "Lunar user" "tink\_account\_status\_auth\_needed": "Authentication needed" "tink\_connected\_provder\_credentials\_type\_bankid": "BankID" "approve\_oauth\_login\_timer\_expired\_alert\_info": "Loginforsøget blev afvist, fordi du ikke godkendte det i tide." "approve\_oauth\_login\_timer\_expired\_alert\_title": "Tiden er udløbet. Loginforsøget blev afvist." "business tier switch user": "Skift bruger" "easy\_account\_lunar\_bank\_private\_benefit\_item\_1": "Få udbetalt penge fra det offentlige direkte på din Lunar konto" "easy\_account\_lunar\_bank\_private\_benefit\_item\_2" : "Få besked, når der går penge ind" "external\_account\_notification\_auth\_info" : "Følg instruktionerne fra den tilsluttede bank, eller klik for at annullere" "external account notification auth title": "Tilknyt bank" "insurance grow travel details coverage private liability info": "Er uheldet ude, og kommer du til at gøre skade på en person eller en ting, så er du selvfølgelig dækk et." "insurance\_grow\_travel\_details\_coverage\_private\_liability\_title": "Privatansvar" "invest\_boarding\_authenticate\_button": "Bekræft identitet" "invest\_boarding\_authenticate\_info": "Det sidste du skal gøre, er blot at bekræfte din ansøgning med NemID. Det tager kun et øjeblik, og så er du i mål med din ansø gning." "invest\_boarding\_authenticate\_title" : "Du er der næsten"







## **POSSIBLE SECRETS** "invest\_boarding\_authenticate\_title": "Du er nesten der" "invest\_boarding\_completed\_authenticate\_button" : "Bekreft identitet" "invest\_boarding\_v2\_occupation\_privately\_employed\_title": "Privat ansatt" "invest\_instrument\_buy\_authenticate\_button" : "Bekreft identitet" "invest\_instrument\_buy\_authenticate\_info": "Før du kan gjennomgå bestillingen din, må du bekrefte din identitet. Ikke bekymre deg, ordren blir ikke lagt før du swipe r for å kjøpe." "invest instrument buy authenticate title": "Gjennomgå ordre" "invest\_instrument\_buy\_authenticate\_unable\_to\_authenticate": "Vi kan ikke autentisere for øyeblikket. Ta kontakt med support." "invest\_withdraw\_authenticate\_button": "Bekreft identitet" "invest\_withdraw\_authenticate\_info" : "For å ta ut penger fra investeringskontoen din, må vi bekrefte identiteten din." "invest\_withdraw\_authenticate\_title": "Ta ut penger" "movemoney\_international\_transfer\_beneficiary\_info\_type\_private": "Privat person" "movemoney\_international\_transfer\_beneficiary\_info\_type\_private\_name": "Mottakerens fulle navn" "nemid\_MultipleSessions" : "Du kan bare logge inn med NemID på én enhet av gangen. Vennligst logg inn med NemID på én enhet, logg ut og logg inn på den andre e nheten." "nemid\_SessionTimeout": "NemID logg inn avbrutt. Prøv igjen." "nemid\_WrongPassword": "Du har skrevet feil kode for mange ganger. NemID- tilgangen din er satt i permament karantene"



# **POSSIBLE SECRETS** "split\_select\_connection\_lunar\_way\_user" : "Lunar bruker" "tink\_account\_status\_auth\_needed": "Godkjenning nødvendig" "tink\_connected\_provder\_credentials\_type\_bankid": "BankID" "approve\_oauth\_login\_timer\_expired\_alert\_info": "Inloggningsförsöket avvisades eftersom du inte godkände det i tid." "approve\_oauth\_login\_timer\_expired\_alert\_title": "Tiden är ute. Inloggningsförsöket avvisades." "business tier switch user": "Byt användare" "easy\_account\_lunar\_bank\_private\_benefit\_item\_1" : "Få betalda pengar från staten direkt till ditt Lunar-konto" "easy\_account\_lunar\_bank\_private\_benefit\_item\_2": "Bli meddelad när pengar går in" "external\_account\_notification\_auth\_info" : "Följ instruktionerna från den anslutna banken eller klicka för att avbryta" "external account notification auth title": "Anslut bank" "insurance grow travel details coverage private liability info": "Om du har en olycka och om du skadar någon eller något så är du naturligtvis täckt." "insurance\_grow\_travel\_details\_coverage\_private\_liability\_title": "Privat ansvar" "invest\_boarding\_authenticate\_button" : "Bekräfta identitet" "invest\_boarding\_authenticate\_info" : "Det allra sista du behöver göra är att bekräfta din ansökan med ditt BankID. Det tar bara några sekunder och sedan är du klar med din ansökan." "invest\_boarding\_authenticate\_title": "Du är nästan där"

# **POSSIBLE SECRETS** "invest\_boarding\_completed\_authenticate\_button" : "Bekräfta identitet" "invest\_boarding\_v2\_occupation\_privately\_employed\_title": "Privatanställd" "invest\_instrument\_buy\_authenticate\_button" : "Bekräfta din identitet" "invest\_instrument\_buy\_authenticate\_info": "Innan du kan granska din beställning måste du verifiera dig själv med BankID. Oroa dig inte, beställningen placeras inte i nnan du har granskat och bekräftat." "invest\_instrument\_buy\_authenticate\_title": "Granska order" "invest instrument buy authenticate unable to authenticate": "Vi kan inte bekräfta din identitet just nu. Vänligen kontakta vår support." "invest\_withdraw\_authenticate\_button": "Bekräfta identitet" "invest\_withdraw\_authenticate\_info": "För att ta ut pengar från ditt aktiekonto måste vi bekräfta din identitet." "invest\_withdraw\_authenticate\_title": "Ta ut pengar" "movemoney\_international\_transfer\_beneficiary\_info\_type\_private": "Privatperson" "movemoney\_international\_transfer\_beneficiary\_info\_type\_private\_name" : "Fullständigt namn på mottagaren" "nemid\_MultipleSessions" : "Du får bara logga in med NemID på en enhet i taget. Se till att logga ut och logga in på den andra enheten innan du går vidare." "nemid\_SessionTimeout": "Du dröjde för länge med att logga in med NemID. Var god försök igen." "nemid\_WrongPassword": "Du har skrivit fel kod för många gånger. Ditt NemID har satts i permanent karantän." "oauth2\_connect\_button": "Anslut"

# **POSSIBLE SECRETS** "pfm\_yearly\_review\_user\_name" : "Hej %s ! Här är ditt 2018 i siffror" "products\_integration\_billys\_boarding\_key\_link": "Så här gör du" "products\_integration\_billys\_boarding\_key\_next\_button": "Nästa" "products\_integration\_billys\_boarding\_key\_subtitle" : "För att vi bland annat ska skicka bilagor till Billy, skapa en åtkomstnyckel och klistra in den här." "products\_integration\_billys\_boarding\_key\_title": "Atkomstnyckel" "products\_integration\_dinero\_boarding\_key\_company\_help" : "Ditt ID finns längst ner till vänster på Dinero." "products\_integration\_dinero\_boarding\_key\_link" : "Så här gör du" "products\_integration\_dinero\_boarding\_key\_next\_button": "Nästa" "products\_integration\_dinero\_boarding\_key\_subtitle": "För att vi bland annat ska skicka bilagor till Dinero behöver vi ditt företags-ID och du måste skapa en API-nyck el och klistra in den här." "products\_integration\_dinero\_boarding\_key\_title": "Anslut med Dinero" "products\_integration\_economic\_authenticate": "Få nyckeln från e-conomic" "settings\_faceid\_auth\_reason" : "Lösenord krävs för att aktivera Face ID." "settings\_require\_password": "Kräv lösenord" "split\_select\_connection\_lunar\_way\_user": "Lunar-användare" "tink\_account\_status\_auth\_needed": "Verifiering behövs"

# **POSSIBLE SECRETS** "tink\_connected\_provder\_credentials\_type\_bankid": "BankID" "approve\_oauth\_login\_timer\_expired\_alert\_info": "Innloggingsforsøket ble avvist fordi du ikke godkjente det i tide." "approve\_oauth\_login\_timer\_expired\_alert\_title": "Tiden er ute. Innloggingsforsøket ble avvist." "business\_tier\_switch\_user": "Bytt bruker" "easy\_account\_lunar\_bank\_private\_benefit\_item\_1" : "Få betalte penger fra regjeringen direkte til Lunar-kontoen din" "easy\_account\_lunar\_bank\_private\_benefit\_item\_2" : "Bli varslet når penger går inn" "external\_account\_notification\_auth\_info" : "Følg instruksjonene fra den tilkoblede banken, eller klikk for å avbryte" "external account notification auth title": "Koble til bank" "insurance\_grow\_travel\_details\_coverage\_private\_liability\_info": "Hvis du har en ulykke, og hvis du skader noen eller noe, er du selvfølgelig dekket." "insurance\_grow\_travel\_details\_coverage\_private\_liability\_title": "Privat ansvar" "invest boarding authenticate button": "Bekreft identitet" "invest\_boarding\_authenticate\_info" : "Det siste du trenger å gjøre er å bekrefte søknaden din med BankID. Det tar bare noen få sekunder, og så er du ferdig med søk naden din." "invest\_boarding\_authenticate\_title": "Du er nesten der" "invest\_boarding\_completed\_authenticate\_button" : "Bekreft identitet" "invest\_boarding\_v2\_occupation\_privately\_employed\_title": "Privat ansatt"

### **POSSIBLE SECRETS** "invest\_instrument\_buy\_authenticate\_button" : "Bekreft identitet" "invest\_instrument\_buy\_authenticate\_info" : "Før du kan gjennomgå bestillingen din, må du bekrefte din identitet. Ikke bekymre deg, ordren blir ikke lagt før du swipe r for å kjøpe." "invest\_instrument\_buy\_authenticate\_title": "Gjennomgå ordre" "invest instrument buy authenticate unable to authenticate": "Vi kan ikke autentisere for øyeblikket. Ta kontakt med support." "invest\_withdraw\_authenticate\_button": "Bekreft identitet" "invest withdraw authenticate info" : "For å ta ut penger fra investeringskontoen din, må vi bekrefte identiteten din." "invest\_withdraw\_authenticate\_title": "Ta ut penger" "movemoney\_international\_transfer\_beneficiary\_info\_type\_private": "Privat person" "movemoney\_international\_transfer\_beneficiary\_info\_type\_private\_name": "Mottakerens fulle navn" "nemid\_MultipleSessions" : "Du kan bare logge inn med NemID på én enhet av gangen. Vennligst logg inn med NemID på én enhet, logg ut og logg inn på den andre e nheten." "nemid\_SessionTimeout": "NemID logg inn avbrutt. Prøv igjen." "nemid WrongPassword": "Du har skrevet feil kode for mange ganger. NemID- tilgangen din er satt i permament karantene" "oauth2 connect button": "Koble til" "pfm\_yearly\_review\_user\_name": "Hei %s! Her er ditt 2018 i tall" "products\_integration\_billys\_boarding\_key\_link" : "Slik gjør du det"



# **POSSIBLE SECRETS** "approve\_oauth\_login\_timer\_expired\_alert\_info": "Innloggingsforsøket ble avvist fordi du ikke godkjente det i tide." "approve\_oauth\_login\_timer\_expired\_alert\_title": "Tiden er ute. Innloggingsforsøket ble avvist." "business\_tier\_switch\_user": "Bytt bruker" "easy\_account\_lunar\_bank\_private\_benefit\_item\_1": "Få betalte penger fra regjeringen direkte til Lunar-kontoen din" "easy\_account\_lunar\_bank\_private\_benefit\_item\_2" : "Bli varslet når penger går inn" "external\_account\_notification\_auth\_info" : "Følg instruksjonene fra den tilkoblede banken, eller klikk for å avbryte" "external\_account\_notification\_auth\_title": "Koble til bank" "insurance\_grow\_travel\_details\_coverage\_private\_liability\_info": "Hvis du har en ulykke, og hvis du skader noen eller noe, er du selvfølgelig dekket." "insurance\_grow\_travel\_details\_coverage\_private\_liability\_title": "Privat ansvar" "invest\_boarding\_authenticate\_button": "Bekreft identitet" "invest boarding authenticate info" : "Det siste du trenger å gjøre er å bekrefte søknaden din med BankID. Det tar bare noen få sekunder, og så er du ferdig med søk naden din." "invest\_boarding\_authenticate\_title": "Du er nesten der" "invest\_boarding\_completed\_authenticate\_button" : "Bekreft identitet" "invest\_boarding\_v2\_occupation\_privately\_employed\_title": "Privat ansatt" "invest\_instrument\_buy\_authenticate\_button": "Bekreft identitet"

### **POSSIBLE SECRETS** "invest\_instrument\_buy\_authenticate\_info": "Før du kan gjennomgå bestillingen din, må du bekrefte din identitet. Ikke bekymre deg, ordren blir ikke lagt før du swipe r for å kjøpe." "invest instrument buy authenticate title": "Gjennomgå ordre" "invest\_instrument\_buy\_authenticate\_unable\_to\_authenticate": "Vi kan ikke autentisere for øyeblikket. Ta kontakt med support." "invest withdraw authenticate button": "Bekreft identitet" "invest\_withdraw\_authenticate\_info" : "For å ta ut penger fra investeringskontoen din, må vi bekrefte identiteten din." "invest withdraw authenticate title": "Ta ut penger" "movemoney\_international\_transfer\_beneficiary\_info\_type\_private": "Privat person" "movemoney\_international\_transfer\_beneficiary\_info\_type\_private\_name": "Mottakerens fulle navn" "nemid\_MultipleSessions" : "Du kan bare logge inn med NemID på én enhet av gangen. Vennligst logg inn med NemID på én enhet, logg ut og logg inn på den andre e nheten." "nemid\_SessionTimeout": "NemID logg inn avbrutt. Prøv igjen." "nemid\_WrongPassword": "Du har skrevet feil kode for mange ganger. NemID- tilgangen din er satt i permament karantene" "oauth2 connect button": "Koble til" "pfm\_yearly\_review\_user\_name": "Hei %s! Her er ditt 2018 i tall" "products\_integration\_billys\_boarding\_key\_link" : "Slik gjør du det"

"products\_integration\_billys\_boarding\_key\_next\_button": "Neste"



### > PLAYSTORE INFORMATION

Title: Lunar - Din anden bank

Score: 4.037518 Installs: 500,000+ Price: 0 Android Version Support: 6.0 and up Category: Finance Play Store URL: com.lunarway.app

Developer Details: Lunar A/S, 5114400225403579384, Lunar A/S Hack Kampmanns Plads 10 8000 Aarhus C, http://www.lunar.app, hello@lunar.app,

Release Date: None Privacy Policy: Privacy link

#### Description:

Gør som 300.000 andre, og prøv en moderne bank. Få en gratis konto, kort og Danmarks bedste bank-app. Du får 0,5% i rente op til 50.000 kr, og du kan beholde din gamle bank. Det får du med Lunar • Gratis sikker konto og sort Visa-kort • Danmarks bedste bank-app, der giver dig kontrol over din økonomi Få 0,5% i rente uden at binde dine penge • Få 0,5% i rente på op til 50.000 kr. i hele 2021 • Undgå negative renter på op til 250.000 kr. • Dine penge er dækket af indskydergarantien Du skal bruge NemID og billedlegitimation for at ansøge om at blive Lunar-bruger. Det tager kun fem minutter. Fire, hvis du er hurtig. Danmarks bedste bank-app: Hos Lunar nytænker vi hele bank-oplevelsen. Vi har gjort det lettere, og mere simpelt at forstå din økonomi ved at gøre det motiverende at lave budgetter og opsparinger, samt visuelt appellerende at tjekke din konto - når du vil, og hvor du vil. • Mål: Spar nemt op til det du drømmer om. • Forbrug: Det ideelle budgetværktøj, så du kan bevare overblikket over dit forbrug. • Overførsler: Gratis straks- og kontooverførsler • Frys kort: Frys kortet midlertidigt via appen • Support: Få live support direkte i appen Hold dig opdateret på www.lunar.app, og følg os på de sociale medier, hvor du kan blive skarpere end vennerne på alt fra money hacks til rejsetips: Facebook: @lunarDenmark Instagram: @lunar Snapchat: @lunarway Twitter: @lunarbank LinkedIn: Lunar

#### **App Security Score Calculation**

Every app is given an ideal score of 100 to begin with.

For every findings with severity high we reduce 15 from the score.

For every findings with severity warning we reduce 10 from the score.

For every findings with severity good we add 5 to the score.

If the calculated score is greater than 100, then the app security score is considered as 100.

And if the calculated score is less than 0, then the app security score is considered as 10.

#### **Risk Calculation**

APP SECURITY SCORE	RISK
0 - 15	CRITICAL

APP SECURITY SCORE	RISK
16 - 40	HIGH
41 - 70	MEDIUM
71 - 100	LOW

### Report Generated by - MobSF v3.4.5 Beta

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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