

ANDROID STATIC ANALYSIS REPORT



EnhancePro (1.37.1)

File Name:	com.gnhearing.enhancepro_40075.apk
Package Name:	com.gnhearing.enhancepro
Scan Date:	Aug. 29, 2025, 11:07 p.m.
App Security Score:	51/100 (MEDIUM RISK)
Grade:	
Trackers Detection:	2/432

FINDINGS SEVERITY

派 HIGH	▲ MEDIUM	i INFO	✓ SECURE	ℚ HOTSPOT
2	18	4	2	3

FILE INFORMATION

File Name: com.gnhearing.enhancepro_40075.apk

Size: 96.46MB

MD5: d032748b50c6721e51c626769b2102b6

SHA1: 28afad1e3d87fe2d66f9d84d605f74a81d131d37

SHA256: 20f2b4a2e5cb64bef6882e827022343dd6eb61846d9cd448c12936f2f507b542

i APP INFORMATION

App Name: EnhancePro

Package Name: com.gnhearing.enhancepro

Main Activity: crc6405288d58f3a7667e.SplashScreenActivity

Target SDK: 34 Min SDK: 26 Max SDK:

Android Version Name: 1.37.1

EE APP COMPONENTS

Activities: 36 Services: 19 Receivers: 18 Providers: 7

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



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

X.509 Subject: C=dk, ST=Unknown, L=Unknown, O=GN Resound A/S, OU=Unknown, CN=Unknown

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2012-08-10 15:00:04+00:00 Valid To: 2039-12-27 15:00:04+00:00

Issuer: C=dk, ST=Unknown, L=Unknown, O=GN Resound A/S, OU=Unknown, CN=Unknown

Serial Number: 0x502521f4 Hash Algorithm: sha1

md5: 883957838ae5e467e98b52b4f976849f

sha1: 4ffc7baee0ea8e76f415c6db26cc09f7377f7841

sha256: a78521a0902bd8f95209048599621bb89709aee4233f5b944a3e6df7401944ae

sha512: fb69049bee7727a424ae2663f256c6c1d11c0a09aef4d35716c97a3dc2b73b28fad3fd848fcab47668c8f2965e04324f7d2643a02efb2fb11e79ee8463179597

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: c0a8cba5dee14194b50f5903aca8ad4118a9774402fa5ab64aee075b85e02889

Found 1 unique certificates

E APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.BLUETOOTH	normal	create Bluetooth connections	Allows applications to connect to paired bluetooth devices.
android.permission.BLUETOOTH_ADMIN	normal	bluetooth administration	Allows applications to discover and pair bluetooth devices.
android.permission.BLUETOOTH_SCAN	dangerous	required for discovering and pairing Bluetooth devices.	Required to be able to discover and pair nearby Bluetooth devices.
android.permission.BLUETOOTH_CONNECT	dangerous	necessary for connecting to paired Bluetooth devices.	Required to be able to connect to paired Bluetooth devices.
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.ACCESS_COARSE_LOCATION	dangerous	coarse (network-based) location	Access coarse location sources, such as the mobile network database, to determine an approximate phone location, where available. Malicious applications can use this to determine approximately where you are.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.ACCESS_FINE_LOCATION	dangerous	fine (GPS) location	Access fine location sources, such as the Global Positioning System on the phone, where available. Malicious applications can use this to determine where you are and may consume additional battery power.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.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.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.SYSTEM_ALERT_WINDOW	dangerous	display system-level alerts	Allows an application to show system-alert windows. Malicious applications can take over the entire screen of the phone.
android.permission.MANAGE_OWN_CALLS	normal	enables a calling app to manage its own calls.	Allows a calling application which manages it own calls through the self-managed ConnectionService APIs.
android.permission.FOREGROUND_SERVICE	normal	enables regular apps to use Service.startForeground.	Allows a regular application to use Service.startForeground.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.USE_FULL_SCREEN_INTENT	normal	required for full screen intents in notifications.	Required for apps targeting Build.VERSION_CODES.Q that want to use notification full screen intents.
android.permission.ANSWER_PHONE_CALLS	dangerous	permits an app to answer incoming phone calls.	Allows the app to answer an incoming phone call.
android.permission.MODIFY_AUDIO_SETTINGS	normal	change your audio settings	Allows application to modify global audio settings, such as volume and routing.
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.RECORD_AUDIO	dangerous	record audio	Allows application to access the audio record path.
android.permission.READ_PHONE_STATE	dangerous	read phone state and identity	Allows the application to access the phone features of the device. An application with this permission can determine the phone number and serial number of this phone, whether a call is active, the number that call is connected to and so on.
android.permission.READ_PHONE_NUMBERS	dangerous	allows reading of the device's phone number(s).	Allows read access to the device's phone number(s). This is a subset of the capabilities granted by READ_PHONE_STATE but is exposed to instant applications.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.ACCESS_BACKGROUND_LOCATION	dangerous	access location in background	Allows an app to access location in the background.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.
android.permission.VIBRATE	normal	control vibrator	Allows the application to control the vibrator.
android.permission.POST_NOTIFICATIONS	dangerous	allows an app to post notifications.	Allows an app to post notifications
android.permission.BATTERY_STATS	signature	modify battery statistics	Allows the modification of collected battery statistics. Not for use by common applications.
android.permission.FOREGROUND_SERVICE_CONNECTED_DEVICE	normal	enables foreground services with connected device use.	Allows a regular application to use Service.startForeground with the type "connectedDevice".
android.permission.FOREGROUND_SERVICE_LOCATION	normal	allows foreground services with location use.	Allows a regular application to use Service.startForeground with the type "location".
android.permission.FOREGROUND_SERVICE_PHONE_CALL	normal	enables foreground services during phone calls.	Allows a regular application to use Service.startForeground with the type "phoneCall".
com.google.android.c2dm.permission.RECEIVE	normal	recieve push notifications	Allows an application to receive push notifications from cloud.

PERMISSION	STATUS	INFO	DESCRIPTION
com.gnhearing.enhancepro.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference

M APKID ANALYSIS

FILE	DETAILS	
d022740b50cC724c54cC2C7C0b2402bCople	FINDINGS	DETAILS
d032748b50c6721e51c626769b2102b6.apk	Anti-VM Code	possible VM check
classes.dex	FINDINGS	DETAILS
	Anti-VM Code	Build.FINGERPRINT check Build.MANUFACTURER check Build.HARDWARE check
	Compiler	r8

FILE	DETAILS	
classes2.dex	FINDINGS	DETAILS
	Anti-VM Code	Build.MODEL check Build.PRODUCT check Build.HARDWARE check Build.TAGS check network operator name check possible VM check
	Compiler	r8 without marker (suspicious)

BROWSABLE ACTIVITIES

ACTIVITY	INTENT
crc6405288d58f3a7667e.SplashScreenActivity	Schemes: gnenhancepro://, Hosts: com.gnhearing.enhancepro.config, Path Prefixes: /configuration,



NO	SCOPE	SEVERITY	DESCRIPTION

CERTIFICATE ANALYSIS

HIGH: 1 | WARNING: 0 | INFO: 1

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

Q MANIFEST ANALYSIS

HIGH: 0 | WARNING: 9 | 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	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.

NO	ISSUE	SEVERITY	DESCRIPTION
3	Broadcast Receiver (crc64947070c3a2c28ca6.PackageReplaceReceiver) is not Protected. [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
4	Service (crc64767046b2c197487a.VoipCallConnectionService) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.BIND_TELECOM_CONNECTION_SERVICE [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
5	Service (crc643dbb57b3ff3588da.RegistrationScheduler) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.BIND_JOB_SERVICE [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
6	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.

NO	ISSUE	SEVERITY	DESCRIPTION
7	Service (com.google.android.play.core.assetpacks.AssetPackExtractionService) is not Protected. [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
8	Service (androidx.work.impl.background.systemjob.SystemJobService) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.BIND_JOB_SERVICE [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
9	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]		A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.

</> CODE ANALYSIS

HIGH: 1 | WARNING: 7 | INFO: 3 | SECURE: 1 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/baidu/android/pushservice/PushManag er.java

NO	ISSUE	SEVERITY	STANDARDS	com/baidu/android/pushservice/f/a.java Fdhr Saidu/android/pushservice/h/m.java
				com/baidu/android/pushservice/jni/PushSoc ket.java
				com/baidu/push/cid/cesium/c.java
				com/baidu/push/cid/cesium/f.java
				com/microsoft/appcenter/AbstractAppCente
				rService.java
				com/microsoft/appcenter/AppCenter.java
				com/microsoft/appcenter/Constants.java
				com/microsoft/appcenter/Flags.java
				com/microsoft/appcenter/ServiceInstrument
				ationUtils.java
				com/microsoft/appcenter/UncaughtExceptio
				nHandler.java
				com/microsoft/appcenter/analytics/Analytics
				.java
				com/microsoft/appcenter/analytics/Analytics
				TransmissionTarget.java
				com/microsoft/appcenter/analytics/Authenti
				cationProvider.java
				com/microsoft/appcenter/analytics/EventPr
				operties.java
				com/microsoft/appcenter/analytics/channel/
				AnalyticsValidator.java
				com/microsoft/appcenter/analytics/channel/
				SessionTracker.java com/microsoft/appcenter/analytics/ingestio
				n/models/EventLog.java
				com/microsoft/appcenter/analytics/ingestio
				n/models/json/EventLogFactory.java
				com/microsoft/appcenter/channel/DefaultC
				hannel.java
				com/microsoft/appcenter/channel/OneColle
				ctorChannelListener.java
				com/microsoft/appcenter/crashes/Crashes.j
				ava
				com/microsoft/appcenter/crashes/WrapperS
				dkExceptionManager.java
				com/microsoft/appcenter/crashes/ingestion/
				models/AbstractErrorLog.java

NO	ISSUE	SEVERITY	STANDARDS	com/microsoft/appcenter/crashes/ingestion/
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	
				lper.java com/microsoft/appcenter/utils/ldHelper.java com/microsoft/appcenter/utils/NetworkStat eHelper.java com/microsoft/appcenter/utils/context/Sessi onContext.java com/microsoft/appcenter/utils/context/User ldContext.java

NO	ISSUE	SEVERITY	STANDARDS	com/microsoft/appcenter/utils/crypto/Crypt 5Utiss ava com/microsoft/appcenter/utils/storage/Data
				baseManager.java com/microsoft/appcenter/utils/storage/File Manager.java com/opentok/android/BaseVideoCapturer.ja va com/opentok/android/OtLog.java mono/MonoPackageManager_Resources.jav a mono/android/incrementaldeployment/Incr ementalClassLoader.java
2	Files may contain hardcoded sensitive information like usernames, passwords, keys etc.	warning	CWE: CWE-312: Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	com/baidu/android/pushservice/d/f.java com/microsoft/appcenter/AppCenter.java com/microsoft/appcenter/Constants.java com/microsoft/appcenter/channel/DefaultC hannel.java com/microsoft/appcenter/crashes/utils/Erro rLogHelper.java com/microsoft/appcenter/http/DefaultHttpCl ient.java com/microsoft/appcenter/ingestion/OneColl ectorIngestion.java com/microsoft/appcenter/ingestion/models/ WrapperSdk.java com/microsoft/appcenter/ingestion/models/ one/CommonSchemaLog.java com/microsoft/appcenter/persistence/Datab asePersistence.java com/microsoft/appcenter/utils/context/Sessi onContext.java com/microsoft/appcenter/utils/storage/Data baseManager.java com/opentok/android/DefaultAudioDevice.j ava

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	CWE: CWE-89: Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') OWASP Top 10: M7: Client Code Quality	com/baidu/android/pushservice/c/a.java com/baidu/android/pushservice/c/c.java com/microsoft/appcenter/persistence/Datab asePersistence.java com/microsoft/appcenter/utils/storage/Data baseManager.java
4	MD5 is a weak hash known to have hash collisions.	warning	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/baidu/android/pushservice/h/f.java
5	App can read/write to External Storage. Any App can read data written to External Storage.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	com/baidu/android/pushservice/e.java com/baidu/android/pushservice/h.java com/baidu/android/pushservice/h/m.java com/baidu/push/cid/cesium/f.java
6	Insecure Implementation of SSL. Trusting all the certificates or accepting self signed certificates is a critical Security Hole. This application is vulnerable to MITM attacks	high	CWE: CWE-295: Improper Certificate Validation OWASP Top 10: M3: Insecure Communication OWASP MASVS: MSTG-NETWORK-3	com/baidu/android/pushservice/e/b.java
7	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-4	com/baidu/android/pushservice/e/b.java
8	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	com/baidu/android/pushservice/b/d.java com/baidu/push/cid/cesium/j/b/b.java com/microsoft/appcenter/http/HttpClientRet ryer.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
9	This App uses SQL Cipher. Ensure that secrets are not hardcoded in code.	info	OWASP MASVS: MSTG-CRYPTO-1	com/microsoft/appcenter/utils/storage/Data baseManager.java
10	SHA-1 is a weak hash known to have hash collisions.	warning	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/baidu/android/pushservice/h/k.java
11	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	com/baidu/android/pushservice/h.java
12	This app listens to Clipboard changes. Some malware also listen to Clipboard changes.	info	OWASP MASVS: MSTG-PLATFORM-4	mono/android/content/ClipboardManager_ OnPrimaryClipChangedListenerImplementor .java

■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
		•		

BEHAVIOUR ANALYSIS

RULE ID	BEHAVIOUR	LABEL	FILES
00102	Set the phone speaker on	command	com/opentok/android/DefaultAudioDevice.java

RULE ID	BEHAVIOUR	LABEL	FILES
00091	Retrieve data from broadcast	collection	com/baidu/android/pushservice/PushMessageReceiver.java
00022	Open a file from given absolute path of the file	file	com/baidu/android/pushservice/c/c.java com/baidu/android/pushservice/h/m.java com/baidu/push/cid/cesium/f.java com/microsoft/appcenter/crashes/Crashes.java com/microsoft/appcenter/crashes/utils/ErrorLogHelper.java com/microsoft/appcenter/utils/storage/FileManager.java org/tensorflow/lite/Interpreter.java
00013	Read file and put it into a stream	file	com/baidu/android/pushservice/b/a.java com/baidu/android/pushservice/e.java com/baidu/android/pushservice/h.java com/baidu/push/cid/cesium/l/a.java com/microsoft/appcenter/utils/storage/FileManager.java
00078	Get the network operator name	collection telephony	com/microsoft/appcenter/utils/DeviceInfoHelper.java
00132	Query The ISO country code	telephony collection	com/microsoft/appcenter/utils/DeviceInfoHelper.java
00183	Get current camera parameters and change the setting.	camera	com/opentok/android/DefaultVideoCapturer.java org/otwebrtc/Camera1Session.java
00208	Capture the contents of the device screen	collection screen	org/otwebrtc/ScreenCapturerAndroid.java
00005	Get absolute path of file and put it to JSON object	file	com/microsoft/appcenter/crashes/utils/ErrorLogHelper.java
00004	Get filename and put it to JSON object	file collection	com/microsoft/appcenter/crashes/utils/ErrorLogHelper.java

RULE ID	BEHAVIOUR	LABEL	FILES
00063	Implicit intent(view a web page, make a phone call, etc.)	control	com/baidu/android/pushservice/PushServiceReceiver.java com/baidu/android/pushservice/h/m.java com/baidu/android/pushservice/message/PublicMsg.java com/baidu/android/pushservice/message/a/c.java
00051	Implicit intent(view a web page, make a phone call, etc.) via setData	control	com/baidu/android/pushservice/PushServiceReceiver.java com/baidu/android/pushservice/message/PublicMsg.java com/baidu/android/pushservice/message/a/c.java
00189	Get the content of a SMS message	sms	com/baidu/android/pushservice/c/c.java com/baidu/android/pushservice/c/d.java
00188	Get the address of a SMS message	sms	com/baidu/android/pushservice/c/c.java com/baidu/android/pushservice/c/d.java
00011	Query data from URI (SMS, CALLLOGS)	sms calllog collection	com/baidu/android/pushservice/c/c.java com/baidu/android/pushservice/c/d.java
00191	Get messages in the SMS inbox	sms	com/baidu/android/pushservice/c/c.java com/baidu/android/pushservice/c/d.java
00200	Query data from the contact list	collection contact	com/baidu/android/pushservice/c/c.java com/baidu/android/pushservice/c/d.java
00201	Query data from the call log	collection calllog	com/baidu/android/pushservice/c/c.java com/baidu/android/pushservice/c/d.java
00077	Read sensitive data(SMS, CALLLOG, etc)	collection sms calllog calendar	com/baidu/android/pushservice/c/c.java com/baidu/android/pushservice/c/d.java
00056	Modify voice volume	control	org/otwebrtc/audio/WebRtcAudioTrack.java org/otwebrtc/voiceengine/WebRtcAudioTrack.java org/otwebrtc/voiceengine61/WebRtcAudioTrack.java

RULE ID	BEHAVIOUR	LABEL	FILES
00096	Connect to a URL and set request method	command network	com/baidu/android/pushservice/e/b.java
00089	Connect to a URL and receive input stream from the server	command network	com/baidu/android/pushservice/e/b.java
00163	Create new Socket and connecting to it	socket	com/baidu/android/pushservice/e/b.java
00030	Connect to the remote server through the given URL	network	com/baidu/android/pushservice/e/b.java
00109	Connect to a URL and get the response code	network command	com/baidu/android/pushservice/e/b.java
00153	Send binary data over HTTP	http	com/baidu/android/pushservice/e/b.java
00094	Connect to a URL and read data from it	command network	com/baidu/android/pushservice/e/b.java
00108	Read the input stream from given URL	network command	com/baidu/android/pushservice/e/b.java
00036	Get resource file from res/raw directory	reflection	com/baidu/android/pushservice/CustomPushNotificationBuilder.java com/baidu/android/pushservice/c/c.java com/baidu/android/pushservice/h/m.java com/baidu/android/pushservice/message/a/c.java
00052	Deletes media specified by a content URI(SMS, CALL_LOG, File, etc.)	sms	com/baidu/android/pushservice/c/c.java

FIREBASE DATABASES ANALYSIS

TITLE	SEVERITY	DESCRIPTION
App talks to a Firebase database	info	The app talks to Firebase database at https://enhance-pro.firebaseio.com
Firebase Remote Config disabled	secure	Firebase Remote Config is disabled for https://firebaseremoteconfig.googleapis.com/v1/projects/905146371876/namespaces/firebase:fetch? key=AlzaSyBOcRYAx2MBnVWhj6zK6n7U0Ntf_Rz9c_w. This is indicated by the response: {'state': 'NO_TEMPLATE'}

***: ::** ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	12/25	android.permission.INTERNET, android.permission.ACCESS_COARSE_LOCATION, android.permission.ACCESS_FINE_LOCATION, android.permission.ACCESS_NETWORK_STATE, android.permission.RECEIVE_BOOT_COMPLETED, android.permission.WAKE_LOCK, android.permission.SYSTEM_ALERT_WINDOW, android.permission.CAMERA, android.permission.RECORD_AUDIO, android.permission.READ_PHONE_STATE, android.permission.WRITE_EXTERNAL_STORAGE, android.permission.VIBRATE
Other Common Permissions	7/44	android.permission.BLUETOOTH, android.permission.BLUETOOTH_ADMIN, android.permission.FOREGROUND_SERVICE, android.permission.MODIFY_AUDIO_SETTINGS, android.permission.ACCESS_BACKGROUND_LOCATION, android.permission.BATTERY_STATS, com.google.android.c2dm.permission.RECEIVE

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
180.76.76.112	IP: 180.76.76.112 Country: China Region: Beijing City: Beijing
api.tuisong.baidu.com	IP: 45.113.194.87 Country: China Region: Beijing City: Beijing

Q DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
in.appcenter.ms	ok	IP: 68.220.193.245 Country: United States of America Region: Georgia City: Atlanta Latitude: 33.818501 Longitude: -84.361015 View: Google Map

DOMAIN	STATUS	GEOLOCATION
enhance-pro.firebaseio.com	ok	IP: 35.201.97.85 Country: United States of America Region: Missouri City: Kansas City Latitude: 39.099731 Longitude: -94.578568 View: Google Map
api.opentok.com	ok	IP: 168.100.106.33 Country: United States of America Region: New Jersey City: Holmdel Latitude: 40.383961 Longitude: -74.170563 View: Google Map
mobile.events.data.microsoft.com	ok	IP: 104.208.16.92 Country: United States of America Region: Iowa City: Des Moines Latitude: 41.600540 Longitude: -93.609108 View: Google Map
180.76.76.112	ok	IP: 180.76.76.112 Country: China Region: Beijing City: Beijing Latitude: 39.907501 Longitude: 116.397232 View: Google Map

DOMAIN	STATUS	GEOLOCATION
10.95.41.15	ok	IP: 10.95.41.15 Country: - Region: - City: - Latitude: 0.000000 Longitude: 0.000000 View: Google Map
api.tuisong.baidu.com	ok	IP: 45.113.194.87 Country: China Region: Beijing City: Beijing Latitude: 39.907501 Longitude: 116.397232 View: Google Map

** TRACKERS

TRACKER	CATEGORIES	URL
Microsoft Visual Studio App Center Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/243
Microsoft Visual Studio App Center Crashes	Crash reporting	https://reports.exodus-privacy.eu.org/trackers/238



POSSIBLE SECRETS
"firebase_database_url" : "https://enhance-pro.firebaseio.com"
"google_api_key" : "AlzaSyBOcRYAx2MBnVWhj6zK6n7U0Ntf_Rz9c_w"
"google_crash_reporting_api_key" : "AlzaSyBOcRYAx2MBnVWhj6zK6n7U0Ntf_Rz9c_w"
"ll_app_key" : "073c755288f043f11c7627c-c2e13726-065c-11e8-3389-007c928ca240"
11839296a789a3bc0045c8a5fb42c7d1bd998f54449579b446817afbd17273e662c97ee72995ef42640c550b9013fad0761353c7086a272c24088be94769fd16650
68647976601306097149819007990813932172694353001433054093944634591855431833976560521225596406614545549772963113914808580371219879997166 43812574028291115057151
c06c8400-8e06-11e0-9cb6-0002a5d5c51b
4fe342e2fe1a7f9b8ee7eb4a7c0f9e162bce33576b315ececbb6406837bf51f5
a3084803c0efede7ed87b12e1c7e005ecea6540c
ae2044fb577e65ee8bb576ca48a2f06e
39402006196394479212279040100143613805079739270465446667946905279627659399113263569398956308152294913554433653942643
bb392ec0-8d4d-11e0-a896-0002a5d5c51b
5ac635d8aa3a93e7b3ebbd55769886bc651d06b0cc53b0f63bce3c3e27d2604b
c6858e06b70404e9cd9e3ecb662395b4429c648139053fb521f828af606b4d3dbaa14b5e77efe75928fe1dc127a2ffa8de3348b3c1856a429bf97e7e31c2e5bd66
3617de4a96262c6f5d9e98bf9292dc29f8f41dbd289a147ce9da3113b5f0b8c00a60b1ce1d7e819d7a431d7c90ea0e5f

POSSIBLE SECRETS

b3312fa7e23ee7e4988e056be3f82d19181d9c6efe8141120314088f5013875ac656398d8a2ed19d2a85c8edd3ec2aef

39402006196394479212279040100143613805079739270465446667948293404245721771496870329047266088258938001861606973112319

aa87ca22be8b05378eb1c71ef320ad746e1d3b628ba79b9859f741e082542a385502f25dbf55296c3a545e3872760ab7

051953eb9618e1c9a1f929a21a0b68540eea2da725b99b315f3b8b489918ef109e156193951ec7e937b1652c0bd3bb1bf073573df883d2c34f1ef451fd46b503f00

115792089210356248762697446949407573530086143415290314195533631308867097853951

5181942b9ebc31ce68dacb56c16fd79f

68647976601306097149819007990813932172694353001433054093944634591855431833976553942450577463332171975329639963713633211138647686124403 80340372808892707005449

6b17d1f2e12c4247f8bce6e563a440f277037d812deb33a0f4a13945d898c296

115792089210356248762697446949407573529996955224135760342422259061068512044369



> PLAYSTORE INFORMATION

Title: Enhance Pro

Score: 4.2809916 Installs: 100,000+ Price: 0 Android Version Support: Category: Medical Play Store URL: com.gnhearing.enhancepro

Developer Details: GN Hearing, GN+Hearing, None, None, appsupport@gnhearing.com,

Release Date: May 18, 2021 Privacy Policy: Privacy link

Description:

The Enhance Pro app lets you control your hearing aids directly from your mobile device. You can change programs, and make simple or more advanced sound

adjustments and save them as favorites. The app helps you learn what you can do and how to do it. It can even help you find your hearing aids if you lose them. Last, but not least, you can have your hearing care professional update your hearing aid programs and send you new hearing aid software without taking a trip to the clinic. Enhance Pro device compatibility: Please consult the Enhance Pro app website for up-to-date compatibility information: www.jabra.com/supportpages/jabra-enhance-pro-compatibility Use the Enhance Pro app to: • Connect compatible hearing aids to compatible Android devices for direct audio streaming* • Enjoy optimization anywhere with online services: Request help with your hearing aid settings from your hearing care professional and receive new settings and software updates. And use these direct control and personalization options: • Adjust volume settings on your hearing aids • Mute your hearing aids • Adjust volume of your streaming accessories • Adjust speech focus as well as noise and wind-noise levels with Sound Enhancer (feature availability depends on your hearing aid model and the fitting by your hearing care professional) • Change manual and streamer programs • Edit and personalize program names • Adjust treble, middle and bass tones to your preferences • Save your preferred settings as a Favorite – you can even tag to a location • Monitor the battery status of your rechargeable hearing aids • Help locate lost or misplaced hearing aids • Tinnitus manager: Adjust sound variation and frequency of the Tinnitus Sound Generator. Select Nature Sounds (feature availability depends on your hearing aid model and the fitting by your hearing care professional) *If your hearing aids support direct audio streaming, you can find a menu called 'Direct Audio Streaming' in the app's My Enhance Pro menu to learn if your phone supports direct audio streaming. For more information please visit www.jabra.com/supportpages/jabra-enhance-procompatibility

⋮ SCAN LOGS

Timestamp	Event	Error
2025-08-29 23:07:39	Generating Hashes	ОК
2025-08-29 23:07:40	Extracting APK	ОК
2025-08-29 23:07:40	Unzipping	OK
2025-08-29 23:07:41	Parsing APK with androguard	ОК
2025-08-29 23:07:42	Extracting APK features using aapt/aapt2	OK

2025-08-29 23:07:42	Getting Hardcoded Certificates/Keystores	ОК
2025-08-29 23:07:44	Parsing AndroidManifest.xml	ОК
2025-08-29 23:07:44	Extracting Manifest Data	ОК
2025-08-29 23:07:44	Manifest Analysis Started	ОК
2025-08-29 23:07:44	Performing Static Analysis on: EnhancePro (com.gnhearing.enhancepro)	ОК
2025-08-29 23:07:49	Fetching Details from Play Store: com.gnhearing.enhancepro	ОК
2025-08-29 23:07:49	Checking for Malware Permissions	ОК
2025-08-29 23:07:49	Fetching icon path	ОК
2025-08-29 23:07:49	Library Binary Analysis Started	ОК
2025-08-29 23:07:51	Reading Code Signing Certificate	ОК
2025-08-29 23:07:52	Running APKiD 2.1.5	ОК

2025-08-29 23:07:59	Detecting Trackers	ОК
2025-08-29 23:08:02	Decompiling APK to Java with JADX	ОК
2025-08-29 23:08:18	Converting DEX to Smali	ОК
2025-08-29 23:08:18	Code Analysis Started on - java_source	ОК
2025-08-29 23:08:31	Android SBOM Analysis Completed	ОК
2025-08-29 23:08:37	Android SAST Completed	ОК
2025-08-29 23:08:37	Android API Analysis Started	ОК
2025-08-29 23:08:46	Android API Analysis Completed	ОК
2025-08-29 23:08:46	Android Permission Mapping Started	ОК
2025-08-29 23:08:55	Android Permission Mapping Completed	ОК
2025-08-29 23:08:55	Android Behaviour Analysis Started	ок

2025-08-29 23:09:01	Android Behaviour Analysis Completed	ОК
2025-08-29 23:09:01	Extracting Emails and URLs from Source Code	ОК
2025-08-29 23:09:02	Email and URL Extraction Completed	ОК
2025-08-29 23:09:02	Extracting String data from APK	ОК
2025-08-29 23:09:02	Extracting String data from Code	ОК
2025-08-29 23:09:02	Extracting String values and entropies from Code	ОК
2025-08-29 23:09:05	Performing Malware check on extracted domains	ОК
2025-08-29 23:09:06	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.

© 2025 Mobile Security Framework - MobSF | Ajin Abraham | OpenSecurity.