

Test report No:
NIE: IT-286438318-RCS.001

Security Evaluation Report

DEKRA Evaluation framework

Target of Evaluation (ToE) Identification of item tested	App Version: 6.0
Model and /or type reference	Google Authenticator
Other identification of the product	com.google.android.apps.authenticator2
Features	Google 2FA
Manufacturer	Google LLC
Test method requested	Security Evaluation based on limited set of evaluation procedures from OWASP Mobile Application Security Verification Standard established by Google
Approved by (name / position & signature)	Juan Manuel Martinez Cybersecurity Engineer
Date of issue	2023/06/23
Report template No	FDT08_EN

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Document history

Report Number	Date	Description
IT-286438318-RCS.001	2023/06/23	Emitted Evaluation Report 001

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Remarks and Comments

Limited set of testing procedures from OWASP MASVS selected by Google

Authorizations

NDA signed with Google

Testing verdicts

PASS	P
FAIL	F
NA	NA
INCONCLUSIVE	INC

Mobile Security Testing Guide

Data Storage and Privacy Requirements	VERDICT			
	P	F	NA	INC
1 System credential storage facilities used to store sensitive data.	X			
2 No sensitive data should be stored outside of the app container.	X			
3 No sensitive data is written to application logs.	X			
5 The keyboard cache is disabled on sensitive data inputs.	X			
7 No sensitive data is exposed through the user interface.	X			
12 Educate the user about the types of personally identifiable information processed.	X			

Cryptography Requirements	VERDICT			
	P	F	NA	INC
1 App does not rely on symmetric cryptography with hardcoded keys.	X			

2 Proven implementations of cryptographic primitives.	X			
3 App uses cryptographic primitives that are appropriate for the particular use-case.	X			
4 No deprecated cryptographic protocols or algorithms.	X			
5 No re-use the same cryptographic key for multiple purposes.	X			
6 Random values are generated using a sufficiently secure random number generator.	X			

Authentication and Session Management Requirements	VERDICT			
	P	F	NA	INC
1 Authentication for remote services.	X			
2 Randomly generated session identifiers.	X			
3 Stateless token-based authentication are signed.	X			
4 Remote endpoint terminates the existing session when the user logs out.	X			
5 Password policy exists and is enforced at the remote endpoint.	X			
6 Brute force mitigations.	X			
7 Sessions are invalidated at the remote endpoint after a predefined period of inactivity.	X			

Network Communication Requirements	VERDICT			
	P	F	NA	INC
1 Data is encrypted on the network using TLS.	X			
2 The TLS settings are in line with current best practices.	X			
3 The app verifies the X.509 certificate of the remote endpoint.	X			

Platform Interaction Requirements	VERDICT			
	P	F	NA	INC
1 Requests the minimum set of permissions.	X			
2 Inputs from external sources and the user are validated.	X			
3 App does not export sensitive functionality via custom URL schemes.	X			
4 App does not export sensitive functionality through IPC facilities.	X			

Code Quality and Build Setting Requirements	VERDICT			
	P	F	NA	INC
1 App is signed and provisioned with a valid certificate.	X			
2 App has been built in release mode.	X			
3 Debugging symbols have been removed from native binaries.	X			
4 Debugging code and developer assistance code have been removed.	X			
5 Third party components are checked for known vulnerabilities.	X			
9 Security features offered by the toolchain are activated.	X			

Appendix A: Evaluation Results

1. Categories, Security Features and Categories Summary

Security Evaluation of the ToE has been divided into different categories,

Security Analysis of each category is structured in different security features. In the same way, each security feature can be composed of several tests.

The following table shows the security features defined per each category and the number of tests of each security feature.

Category	Security Features	N° TESTS
1. Mobile Security Testing Guide	1.1 Data Storage and Privacy Requirements	6
	1.2 Cryptography Requirements	6
	1.3 Authentication and Session Management Requirements	7
	1.4 Network Communication Requirements	3
	1.5 Platform Interaction Requirements	4
	1.6 Code Quality and Build Setting Requirements	6

2. Detailed Results

Complete results of the evaluation procedures carried on each category can be seen in the following attached documents:

Number	Appendix	Document Name
1	A.1	Mobile Security Testing Guide Evaluation Report