Products Claims Testing
Application Number ADPC114
Apkudo

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Distribution: Confidential

DISCLAIMER

The Product Claims Test is presented as the outcome of a specific test ran in laboratory environment under controlled conditions. Use of this certified product for the purpose of sanitizing data from devices tested needs to be done so after a risk assessment process. ADISA reserves the right to review the validity of this award upon changes in threat landscape.

LIABILITY

ADISA accepts no liability for any claims resulting from the use of the product tested.

REVISION HISTORY

09.07.2021 Revision 1.0 issued to Steve Mellings

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Contents

1.0 Executive Summary

This is a report detailing the findings in relation to the execution of the ADISA Testing Methodology on Claims Test ADPC114 submitted by Joel McCarty in June 2021.

The claims test was carried out in accordance with ADISA Claims Testing (ACT) v1.0 and supporting document ADISA Testing Methodology v1.0, both of which are available from ADISA.

The claim made for the phone was:

> *"Device Eraser v2.1 when used in accordance with User Manual v1.1 and using algorithm cryptographic erase, will sanitise all user data on the devices listed in Section 3 of this claim, such that forensic techniques aligned to Test Level 1 cannot recover user data.".ADPC114*

A single device was submitted as part of this test, and it is listed below:

Device		***Test Level***
Apple iPhone	iOS 14.6	1

After testing it is confirmed that the Apkudo **claim is true** for the device tested up to Test Level 1. That device was:

- iPhone 11 running iOS 14.6

2.0 Test Level 1 Testing Smart Phones and Tablets

2.1 Methodology.

This test phase is designed to evaluate the claim made by recreating an attack by a threat adversary utilising standard COTS forensic tools and techniques. (e.g. Oxygen). For each device the following methodology is performed.

1. The applicant software was configured in accordance with the manufacturer's instructions.
2. A factory reset is performed on each device in accordance with the device manufacturers instructions.
3. A SIM was inserted into the device and the device connected to a Wi-Fi network.
4. The following data is placed on each device:
    a. A standard pin to unlock the device '123456'
    b. WIFI credentials;
    c. Pictures and Movies;
    d. SMS, MMS, Phone Calls;
    e. Contact Details and Diary Events
    f. Internet Browsing and Internet Email;
    g. Email/Gmail account.
5. To create a Base Image for comparison the device was then imaged using Oxygen.
6. The device was then erased using applicant's software in accordance with the manufacturer's instructions.
7. The device was then imaged using Oxygen to create the test image.
8. The test image was then data carved to identify any images and the results compares with the base-image constructed in step 5.

2.0 Test Level 1 Testing Smart Phones and Tablets

2.2 Test Results.

Test Level 1 Summary Results

Test Level 1 replicated an attack on these devices being made by an aggressor with capabilities outlined below.

Risk Level	Threat Actor and Compromise Methods	Test Level
1 (Low)	Casual or opportunistic threat actor only able to mount high-level non-invasive and non-destructive software attacks utilising freeware, OS tools and COTS products. Commercial data recovery organisation able to mount non-invasive and non-destructive software attacks and hardware attacks.	1

The Results of Test Level 1

Family	Operating System	Result
iPhone 11	iOS 14.6	PASS

Pass means that Apkudo v2.1 mitigates the threat posed by the Threat Actors holding the capabilities outlined by Test Level 1.

3.0 Summary and Conclusions

Claims Test Result: **Pass on all devices tested.**

The device passed the claims test as all-forensic data recovery techniques up to and including ADISA Test Level 1 failed to recover any data. The software tested was the Apkudo v2.1.

Claims Test Carried Out By: Godfred Badu

Test Facility: ADISA Research Centre

Signature: 

Date: 09.07.2021