



Product Claims Test
Application Number ADPC0035
Piceasoft PiceaEraser 4 v 4.0

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Whilst we make every endeavour to ensure the accuracy of the information provided here and that the recommendations are made to the best of our ability they may be subject to inaccuracies or change.

REVISION HISTORY

19/12/2017 Revision 1.0 issued to Steve Mellings (ADISA)



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1.0 Executive Summary

This is the final report detailing the findings in relation to the execution of the ADISA Testing Methodology on Claims Test ADPC0035 submitted by Piceasoft Limited. 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 drive was:

“Piceasoft Ltd PiceaEraser 4, when used in accordance with the guidance provided, will sanitise the user data on the smartphones and tablets within this test to protect from forensic attack equivalent to risk level 2 (test level 1) of the ADISA Threat Matrix” – Claim Number ADPC0035.

Two mobile devices were submitted as part of this test and these are listed below:

Family	Model	Test Level
Samsung Galaxy S8	SM-G950FZKAVOD	1
Samsung Galaxy Alpha	SM-G850FZKEVOD	1
Apple iPhone 6	MG4J2	1
Apple iPhone 5	ME434	1

Table 1 – Devices Tested

After testing it is confirmed that the Piceasoft Limited claim is true for all devices tested up to Test Level 1 attacks.

2.0 Test Level 1 Testing

2.1 Simple 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. Cellebrite). For each device the following methodology is performed.

1. The test 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. Pictures and Movies;
 - b. SMS, Phone Details and Contact Details;
 - c. Internet Browsing and Internet Email.
5. To create a Base Image for comparison the device was then imaged using Cellebrite.
6. The device was then erased using the test software in accordance with the manufacturer's instructions.
7. The device was then imaged using Cellebrite to create the test image.
8. The test image was then data carved to identify any images and the results compares and contrasted with the base-image constructed in step 5.

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 (Very 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.	1
2 (Low)	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	Model	Result
Samsung Galaxy S8	SM-G950FZKAVOD	Pass
Samsung Galaxy Alpha	SM-G850FZKEVOD	Pass
Apple iPhone 6	MG4J2	Pass
Apple iPhone 5	ME434	Pass

Pass means that the Piceasoft PiceaEraser 4 v4.0 mitigates the threat posed by the Threat Actors holding the capabilities outlined by Test Level 1 on the tested devices and the claim made can be confirmed.

3.0 Summary and Conclusions

Both devices tested 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 Piceasoft PiceaEraser 4 v4.0.

Claims Test Carried Out By: Professor Andrew Blyth, PhD.

Signature:

A handwritten signature in black ink, appearing to read 'A. Blyth', with a stylized flourish at the end.

Date: 15.05.2018

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