



Products Claims Testing
Application Number ADPC00067
mce sys Ltd

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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

17.07.2019 Revision 1.0 issued to Steve Mellings



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1.0 Executive Summary

This is a report detailing the findings in relation to the execution of the ADISA Testing Methodology on Claims Test ADPC0067 submitted by Michael Ben-Oliel in June 2019.

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:

“mce software Wipe Engine 12.4.73, when used in accordance with on-screen instructions for Wipe process will sanitize user-generated data from smart phones and tablet within this test to protect from a forensic attack equivalent to test test level 1 of the ADISA threat matrix..” ADPC0067

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

<i>Device</i>	<i>Test Level</i>
Apple iPad 2	1
Apple iPhone 8	1
Samsung Galaxy S9	1
HTC Sensation Z710e	1
Sony Xperia C1505	1

After testing it is confirmed that the mce systems Ltd **claim is true** for the devices tested up to Test Level 1 results.

Those devices are:

- Apple iPad 2 IOS 9.3.5
- Apple iPhone 8 iOS 12.3
- Samsung S9 Android 8.0.0
- HTC Sensation Z710e 4.0.3
- Sony Xperia C1505 4.1.1

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. Cellebrite or 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. 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 or 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 Cellebrite or 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.

2.2 Test Level 1 Summary Results

Test Level 1 replicated an attack on this device 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

Device	Test Level	Result
Apple iPad 2	1	Pass
Apple iPhone 8	1	Pass
Samsung Galaxy S9	1	Pass
HTC Sensation Z710e	1	Pass
Sony Xperia C1505	1	Pass

Pass means that Wipe Engine 12.4.73 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 two devices passed the claims test as all-forensic data recovery techniques up to and including ADISA Test Level 1 to recover any data. The software tested was the mce sys Ltd Wipe Engine 12.4.73

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

Test Facility: ADISA Research Centre

Signature:



Date: 17.07.2019

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