Product Claims Test
Application Number ADPC0044
Asset Science

Author: Professor Andrew Blyth

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Distribution: Confidential

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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

23.05.2018	Revision 1.0 issued by Andrew Blyth
13.07.2018	Revision 1.1 issued by Steve Mellings

ADISA ASSET DISPOSAL & INFORMATION SECURITY ALLIANCE

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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 ADPC0044 submitted by Asset Science. 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 baseline used to proof/disprove a claim in relation to data erasure/sanitization of mobile phone is that of a factory reset on the device.

The claim made for the drive was:

> *"Asset Science Software 18 when used in accordance with the Self Guide User Manual built into the Software will overwrite all available user data on the hardware sample within this test to protect to a forensic attack equivalent to test level 1 of the ADISA threat matrix" – Claim Number ADPC0044.*

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

Family	***Model***	***Test Level***
iPhone 5C	ME502B/A	1
Samsung Galaxy S8 Edge	SM-G950F	1

Table 1 – Devices Tested

After testing it is confirmed that the Asset Science claim is as follows for the test devices:

- The claim **is** true for the iPhone 5C device tested up to Test Level 1 attacks.
- The claim **is** true for the Samsung Galaxy S8 Edge device 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 ReCell Bundle V18.1.9 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.
    d. Applications
5. To create a Base Image for comparison the device was then imaged using Cellebrite.
6. The device was then erased using ReCell Bundle V18.1.9 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 this device 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
iPhone 5C	ME502B/A	**PASS**
Samsung Galaxy S8 Edge	SM-G950F	**PASS**

- Pass means that ReCell Bundle 18.1.9 mitigates the threat posed by the Threat Actors holding the capabilities outlined by Test Level 1.

3.0 Summary and Conclusions

The iPhone 5C device 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 ReCell Bundle V18.1.9.

The Samsung Galaxy S8 Edge device 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 ReCell Bundle V18.1.9.

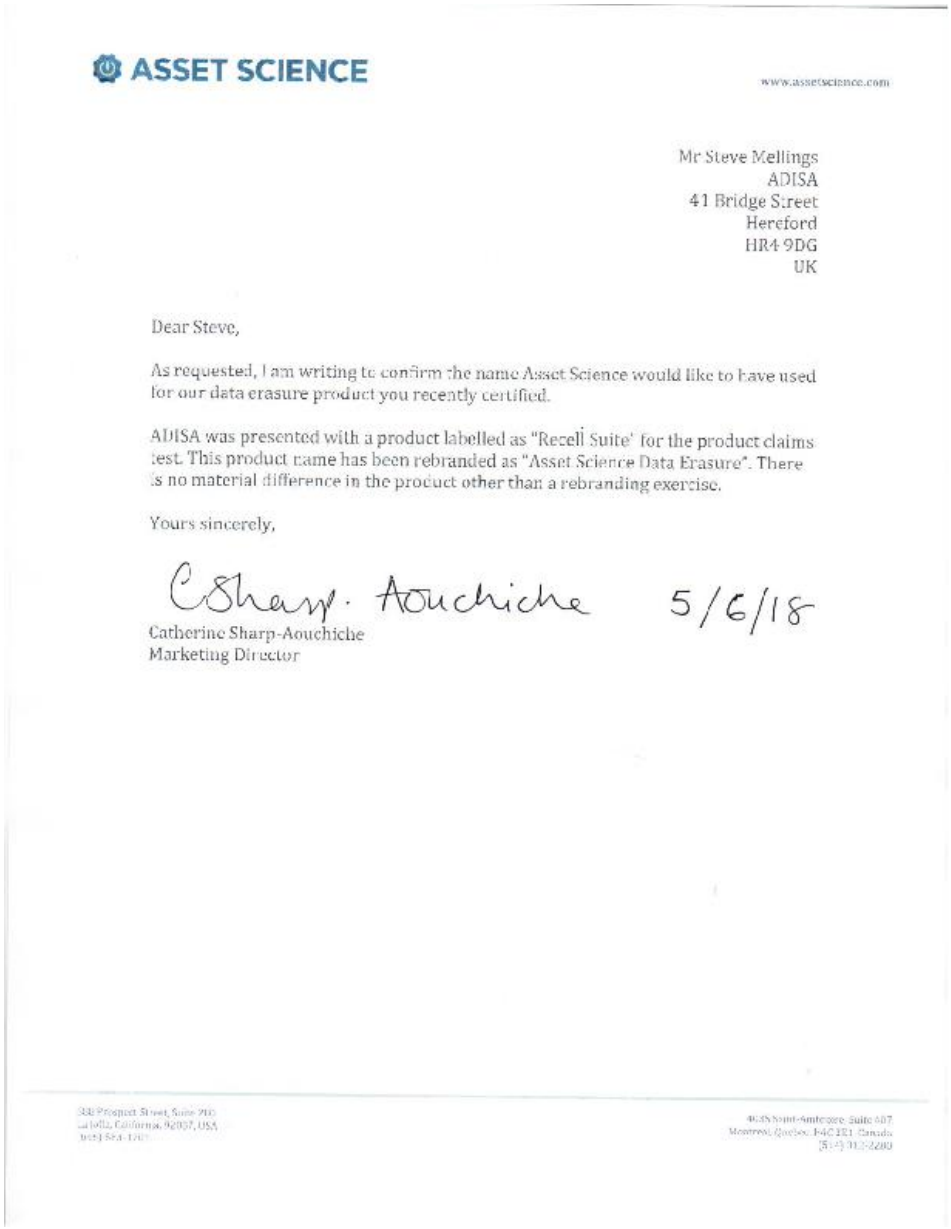
Claims Test Carried Out By: Professor Andrew Blyth, PhD.

Signature: 

Date: 23rd May 2018

ADISA Note:

The claims test application named the software as “18”. At test the software label identified it as “Asset Science Recell Bundle V18.1.9.” Discussion with Asset Science enabled ADISA to confirm that this was the software to be tested but it was to be sold bundled within products named as “Asset Science Data Erasure”. Below is a letter from the Asset Science Marketing Director confirming this.



ASSET SCIENCE

www.assetscience.com

Mr Steve Mellings
ADISA
41 Bridge Street
Hereford
HR4 9DG
UK

Dear Steve,

As requested, I am writing to confirm the name Asset Science would like to have used for our data erasure product you recently certified.

ADISA was presented with a product labelled as "Recell Suite' for the product claims test. This product name has been rebranded as "Asset Science Data Erasure". There is no material difference in the product other than a rebranding exercise.

Yours sincerely,

C Sharp-Aouchiche 5/6/18

Catherine Sharp-Aouchiche
Marketing Director