



**Products Claims Testing  
Claims Test ADPC0021  
Aiken**

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University of South Wales**

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Distribution: Confidential

## DISCLAIMER

The content of this document is based on information shared to date and will be subject to change or modification as requirements are amended, clarified or additional requirements are indicated at a later stage. For this reason, this document should be viewed as a discussion document with further qualification and refinement required.

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

07/01/2017      Revision 1.0 issued to Steve Mellings



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## 1.0 Executive Summary

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This is the final report detailing the findings in relation to the execution of the ADISA Testing Methodology on Claims Test ADPC0021 submitted by Aiken in Nov 2016. 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:

*“The Aiken Workbench product, when used in accordance with the Aiken Workbench Administrator’s Guide, will overwrite all available data on the drives within this test to protect from a forensic attack equivalent to test level 1 of the ADISA threat matrix - Claim Number ADPC0021.”*

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

<b>Device</b>	<b>Test Level</b>
HDD Seagate Barracuda 250GB – Model 9SL131-021	1
SSD Samsung 840EVO 120GB – Model MZ-7TE120	1

Table 1 – Devices Tested

After testing it is confirmed that the Aiken claim is true for the devices tested up to Test Level 1 results. Those devices are:

- HDD Seagate Barracuda 250GB – Model 9SL131-021
- SSD Samsung 840EVO 120GB – Model MZ-7TE120

## 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.

For each computer hard drive (Seagate and Samsung) device the following methodology is performed:

1. Structured data, the string "ISRG", was written to every logical block address on the hard drive.
2. The device was then imaged using Access Data / FTK.
3. The device was then erased using the Aiken Software in accordance with the manufactures instructions.
4. The device was then imaged and analysed using Access Data / FTK.

### 2.2 Test Results.

#### Test Level 1 Summary Results

Test Level 1 replicated an attack on these 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.

Hard Drive/Model	Result
HDD Seagate Barracuda 250GB – Model 9SL131-021	PASS
SSD Samsung 840EVO 120GB – Model MZ-7TE120	PASS

Pass means that the Aiken Workbench 2.0 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. A key element to the claims test is that the software has to be used in accordance with the manufactures user manual.

### 3.0 Summary and Conclusions.

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**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 failed to recover any data. The software tested was the Aiken Workbench 2.0.

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

Test Facility: University of South Wales

Signature:



Date: 7<sup>th</sup> January 2017

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# Appendix A Claims Test Application Form (copy)



## Claims Testing Application Form

Form Number ADPC00021

### Section 1 – Applicant Information

Company Name: Aiken Informática, S.L.  
Address: Gran Via Corts Catalanes 566, Atico, 08011 Barcelona, Spain

General Contact  
Name: Juan-Carlos Font  
Phone: +34 931 167 443  
Mobile: +34 633 914 554  
E-Mail: jcfont@aiken.es

### Section 2 – Applicant Software Information

Manufacturer Aiken Informática, S.L.  
Version of software Aiken Workbench 2.0

#### Background (Explanation of the company and software)

Based in Barcelona, Aiken are developers of specialized software products for ITAD companies, supporting their full business cycle: equipment processing, warehousing operations and sales.

#### Technical / physical architecture of claims test applicant software.

Aiken Workbench is a client/server solution based on Ubuntu Linux. The clients start from the server using the PXE protocol. The major software functions are: auditing, secure data erasing, testing and imaging.

#### Best practice usage guide for usage of software being tested. (Please enclose any manuals)

The installation and full operation of the software is described in the Administrator's Guide.

#### Host Information for claims test applicant software to run on. To be shipped by test claimant.

1 SATA magnetic drive, 1 SATA solid-state drive

### Section 3 – Test Hardware Information

What is the sample of hardware which is to be used during the test?

- Server: 1 notebook (recommended specifications: i5 processor, 4GB RAM, 160GB drive, DVD reader, Gigabit LAN port. It must be connected via Wi-Fi to the Internet during the installation)
- Client: 1 desktop computer (recommended specifications: i5 processor, 4GB RAM, Gigabit LAN port).
- 1 Gigabit network switch

#### ADISA Threat Matrix

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
3 (Medium)	Commercial computer forensics organisation able to mount both non-invasive/non-destructive and invasive/ non-destructive software and hardware attack, utilising COTS products.	2
4 (High)	Commercial data recovery and computer forensics organisation able to mount both non-invasive/non-destructive and invasive/ non-destructive software and hardware attack, utilising both COTS and bespoke utilities.	2
5 (Very High)	Government-sponsored organisations or an organisation with unlimited resources and unlimited time capable of using advanced techniques to mount all types of software and hardware attacks to recover sanitised data.	3

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## Section 4 – The Claim

The Aiken Workbench product, when used in accordance with the Aiken Workbench Administrator's Guide, will overwrite all available data on the drives within this test to protect from a forensic attack equivalent to test level 1 of the ADISA threat matrix.

Claim Technical Contact at applicant.

Name: Juan-Carlos Font  
Phone: +34 931 167 443  
Mobile: +34 633 914 554  
E-Mail: jcfont@aiken.es

## Acceptance

**I, Juan-Carlos Font of Aiken Informática, S.L., confirm that the information outlined in this document is an accurate and true reflection of the claims made by our product wishing to undergo the ADISA testing method.**

Signed on behalf of Aiken Informática, S.L.

SIGNED:

NAME: JUAN-CARLOS FONT  
TITLE: MANAGING DIRECTOR/CHIEF SOFTWARE DESIGNER  
DATE: 08/23/2016

Claim Accepted by:

Signed on behalf of University of South Wales

SIGNED:

NAME: Andrew Blyth  
TITLE: Professor  
DATE:

Signed on behalf of ADISA

SIGNED:

NAME: Steve Mellings  
TITLE: Director  
DATE: