

	NIJ
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Test Results for Digital Data Acquisition Tool: FTK Imager 2.5.3.14	

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Introduction

The Computer Forensics Tool Testing (CFTT) program is a joint project of the National Institute of Justice (NIJ), the research and development organization of the U.S. Department of Justice, and the National Institute of Standards and Technology's (NIST's) Office of Law Enforcement Standards and Information Technology Laboratory. CFTT is supported by other organizations, including the Federal Bureau of Investigation, the U.S. Department of Defense Cyber Crime Center, U.S. Internal Revenue Service Criminal Investigation Division Electronic Crimes Program, and the U.S. Department of Homeland Security's Bureau of Immigration and Customs Enforcement, U.S. Customs and Border Protection, and U.S. Secret Service. The objective of the CFTT program is to provide measurable assurance to practitioners, researchers, and other applicable users that the tools used in computer forensics investigations provide accurate results. Accomplishing this requires the development of specifications and test methods for computer forensics tools and subsequent testing of specific tools against those specifications.

Test results provide the information necessary for developers to improve tools, users to make informed choices, and the legal community and others to understand the tools' capabilities. This approach to testing computer forensic tools is based on well-recognized methodologies for conformance and quality testing. The specifications and test methods are posted on the CFTT Web site (http://www.cftt.nist.gov/) for review and comment by the computer forensics community.

This document reports the results from testing FTK Imager, version 2.5.3.14, against the *Digital Data Acquisition Tool Assertions and Test Plan Version 1.0*, available at the CFTT Web site (http://www.cftt.nist.gov/DA-ATP-pc-01.pdf).

Test results from other software packages and the CFTT tool methodology can be found on NIJ's computer forensics tool testing Web page, http://www.ojp.usdoj.gov/nij/topics/technology/electronic-crime/cftt.htm.

Test Results for Digital Data Acquisition Tool

Tool Tested: FTK Imager Version: 2.5.3.14

Run Environments: Windows XP, Windows Server 2003 & Windows 2000

Supplier: AccessData

Address: 384 South 400 West

Suite 200

Lindon, UT 84042 USA

Tel: 801–377–5410 Fax: 801–765–4370

WWW: http://www.accessdata.com/

1 Results Summary

Except for two test cases (DA–07 and DA–08), the tested tool acquired all visible and hidden sectors completely and accurately from the test media without any anomalies. In one test case (DA-25) image file corruption was detected, but the location of the corrupt data was not reported. The following four anomalies were observed in test cases DA–07, DA–08, and DA–25:

- 1. If a logical acquisition is made of an NTFS partition, the last eight sectors of the physical partition are not acquired (DA–07–NTFS).
- 2. The sectors hidden by a *host protected area* (HPA) are not acquired (DA–08–ATA28 and DA–08–ATA48).
- 3. The sectors hidden by a *device configuration overlay* (DCO) are not acquired (DA–08–DCO).
- 4. The location of corrupted data in an image file is not reported (DA-25).

2 Test Case Selection

Not all test cases or test assertions defined in *Digital Data Acquisition Tool Assertions* and *Test Plan Version 1.0* are appropriate for all tools. In addition to the base test cases, each remaining test case is linked to optional tool features needed for the test case. If a given tool implements a given feature then the test cases linked to that feature are run. Table 1 lists the features available in FTK Imager 2.5.3.14 and the linked test cases selected for execution. Table 2 lists the features not available in FTK Imager 2.5.3.14 and the test cases not executed.

Table 1 Selected Test Cases

Supported Optional Feature	Cases selected for execution

Supported Optional Feature	Cases selected for execution
Base Cases	06, 07 & 08
Read error during acquisition	09
Create an image file in more than one format	10
Insufficient space for image file	12
Detect a corrupted (or changed) image file	24 & 25
Convert an image file from one format to	26
another	

Table 2 Omitted Test Cases

Unsupported Optional Feature	Cases omitted (not executed)
Create a clone during acquisition	01, 02 & 04
Create cylinder aligned clones	03, 15, 21 & 23
Device I/O error generator available	05, 11 & 18
Destination Device Switching	13
Create a clone from an image file	14 & 17
Create a clone from a subset of an image file	16
Fill excess sectors acquired to a clone device	19 & 20
Fill excess sectors on a clone device	22

Some test cases have variant forms to accommodate parameters within test assertions. These variations cover the execution environment, acquisition interface to the source drive, and type of digital object acquired. Variations were also created for image file format.

The tool was executed in one of the following Microsoft run time environments: Windows XP, Windows Server 2003 or Windows 2000.

The following source interfaces were tested: ATA28, ATA48, USB, and FireWire.

The following digital sources were tested: partitions (FAT12, FAT16, FAT32, FAT32X, and NTFS), compact flash, and thumb drive.

The image files were created on either NTFS or FAT32 partitions.

3 Results by Test Assertion

Table 3 summarizes the test results by assertion. The column labeled **Assertions Tested** gives the text of each assertion. The column labeled **Tests** gives the number of test cases that use the given assertion. The column labeled **Anomaly** gives the section number in this report where any anomalies found for the assertion are discussed.

Table 3 Assertions Tested

Assertions Tested	Tests	Anomaly
AM-01 The tool uses access interface SRC-AI to access the digital	18	
source.		
AM–02 The tool acquires digital source DS.	18	
AM–03 The tool executes in execution environment XE.	26	
AM-05 If image file creation is specified, the tool creates an image	18	
file on file system type FS.		
AM–06 All visible sectors are acquired from the digital source.	17	3.1
AM–07 All hidden sectors are acquired from the digital source.	3	3.2
AM–08 All sectors acquired from the digital source are acquired	17	
accurately.		
AM–09 If unresolved errors occur while reading from the selected	1	
digital source, the tool notifies the user of the error type and location		
within the digital source.		
AM–10 If unresolved errors occur while reading from the selected	1	
digital source, the tool uses a benign fill in the destination object in		
place of the inaccessible data.		
AO-01 If the tool creates an image file, the data represented by the	17	
image file is the same as the data acquired by the tool.		
AO-02 If an image file format is specified, the tool creates an image	2	
file in the specified format.		
AO–04 If the tool is creating an image file and there is insufficient	1	
space on the image destination device to contain the image file, the		
tool shall notify the user.		
AO-05 If the tool creates a multi-file image of a requested size then	17	
all the individual files shall be no larger than the requested size.		
AO-06 If the tool performs an image file integrity check on an image	1	
file that has not been changed since the file was created, the tool shall		
notify the user that the image file has not been changed.		
AO-07 If the tool performs an image file integrity check on an image	1	
file that has been changed since the file was created, the tool shall		
notify the user that the image file has been changed.		2.2
AO–08 If the tool performs an image file integrity check on an image	1	3.3
file that has been changed since the file was created, the tool shall		
notify the user of the affected locations.		
AO–09 If the tool converts a source image file from one format to a	6	
target image file in another format, the acquired data represented in		
the target image file is the same as the acquired data in the source		
image file.	26	
AO–23 If the tool logs any log significant information, the	26	
information is accurately recorded in the log file.		

Two test assertions only apply in special circumstances. The assertion AO–22 is checked only for tools that create block hashes. This assertion does not apply to FTK Imager

2.5.3.14. The assertion AO–24 is only checked if the tool is executed in a run time environment that does not modify attached storage devices, such as MS DOS. A write blocker was used during the tests, so assertion AO–24 was not checked. Table 4 lists the assertions that were not tested, usually due to the tool not supporting some optional feature, e.g., creation of cylinder aligned clones.

Table 4 Assertions Not Tested

Assertions Not Tested

- AM-04 If clone creation is specified, the tool creates a clone of the digital source.
- AO-03 If there is an error while writing the image file, the tool notifies the user.
- AO-10 If there is insufficient space to contain all files of a multi-file image and if destination device switching is supported, the image is continued on another device.
- AO-11 If requested, a clone is created during an acquisition of a digital source.
- AO-12 If requested, a clone is created from an image file.
- AO-13 A clone is created using access interface DST-AI to write to the clone device.
- AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source
- AO-15 If an aligned clone is created, each sector within a contiguous span of sectors from the source is accurately written to the same disk address on the clone device relative to the start of the span as the sector occupied on the original digital source. A span of sectors is defined to be either a mountable partition or a contiguous sequence of sectors not part of a mountable partition. Extended partitions, which may contain both mountable partitions and unallocated sectors, are not mountable partitions.
- AO-16 If a subset of an image or acquisition is specified, all the subset is cloned.
- AO-17 If requested, any excess sectors on a clone destination device are not modified.
- AO-18 If requested, a benign fill is written to excess sectors of a clone.
- AO-19 If there is insufficient space to create a complete clone, a truncated clone is created using all available sectors of the clone device.
- AO-20 If a truncated clone is created, the tool notifies the user.
- AO–21 If there is a write error during clone creation, the tool notifies the user.
- AO–22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source.
- AO–24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.

3.1 Eight Sectors Omitted from Logical Acquisition of NTFS Partition

If a logical acquisition is made of an NTFS partition the last eight sectors of the physical partition are not acquired (DA–07–NTFS). The physical partition used in the test case had 27,744,192 sectors, but the FTK Imager acquired only the first 27,744,184 sectors.

3.2 Acquisition of HPA and DCO

If a physical acquisition is made of a drive with hidden sectors in either a Host Protected Area or a Device Configuration Overlay, the tool does not remove either an HPA or a DCO. The tool did not acquire sectors hidden by an HPA (DA–08–ATA28 and DA–08–ATA48) or a DCO (DA–08–DCO).

3.3 Location of Corrupted Data in Image File

In one test case (DA–25) image file corruption was detected, but the location of the corrupted data was not reported to the user.

4 Testing Environment

The tests were run in the NIST CFTT lab. This section describes the test computers available for testing.

4.1 Test Computers

Two test computers were used.

Frank and Freddy have the following configuration:

Intel® Desktop Motherboard D865GB/D865PERC (with ATA-6 IDE on board controller)

BIOS Version BF86510A.86A.0053.P13

Adaptec SCSI BIOS V3.10.0

Intel® PentiumTM 4 CPU 3.4Ghz

2577972KB RAM

SONY DVD RW DRU-530A, ATAPI CD/DVD-ROM drive

1.44 MB floppy drive

Two slots for removable IDE hard disk drives

Two slots for removable SATA hard disk drives

Two slots for removable SCSI hard disk drives

4.2 Support Software

A package of programs to support test analysis, FS–TST Release 2.0, was used. The software can be obtained from: http://www.cftt.nist.gov/diskimaging/fs-tst20.zip.

5 Test Results

The main item of interest for interpreting the test results is determining the conformance of the tool under test with the test assertions. Conformance with each assertion tested by a given test case is evaluated by examining the **Log Highlights** box of the test report summary.

5.1 Test Results Report Key

A summary of the actual test results is presented in this report. The following table presents a description of each section of the test report summary.

Heading	Description	
First Line:	Test case ID, name, and version of tool tested.	
Case Summary:	Test case summary from Digital Data Acquisition Tool	
	Assertions and Test Plan Version 1.0.	
Assertions:	The test assertions applicable to the test case, selected from	
	Digital Data Acquisition Tool Assertions and Test Plan	
	Version 1.0.	
Tester Name:	Name or initials of person executing test procedure.	
Test Host:	Host computer executing the test.	
Test Date:	Time and date that test was started.	
Drives:	Source drive (the drive acquired), destination drive (if a	
	clone is created) and media drive (to contain a created	
	image).	
Source Setup:	Layout of partitions on the source drive and the expected	
	hash of the drive.	
Log Highlights:	Information extracted from various log files to illustrate	
	conformance or nonconformance to the test assertions.	
Results:	Expected and actual results for each assertion tested.	
Analysis:	Whether or not the expected results were achieved.	

5.2 Test Details

5.2.1 DA-06-ATA28

Test Case DA-	Test Case DA-06-ATA28 FTK Imager 2.5.3.14		
Case Summary:	DA-06 Acquire a physical device using access interface AI to an image file.		
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.		
Tester Name:	mrmw		
Test Host:	Freddy		
Test Date:	Tue Oct 30 11:03:37 2007		
Drives:	src(43) dst (none) other (01-FU)		
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >		

Test Case DA-	06-ATA28 FTK Imager 2.5.3.14		
Setup:	Setup: src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >		
	78125000 total sectors (4000000000 bytes)		
	Model (OBB-75JHCO) serial # (WD-WMAMC465		
	N Start LBA Length Start C/H/S End C/H/S bo		
	1 P 000000063 020980827 0000/001/01 1023/254/63		
	2 X 020980890 057143205 1023/000/01 1023/254/63 3 S 000000063 000032067 1023/001/01 1023/254/63	OF extended	
	3 S 000000063 000032067 1023/001/01 1023/254/63	01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 5 s 000000063 002104452 1023/001/01 1023/254/63	US extended	
	6 x 002136645 004192965 1023/000/01 1023/254/63	05 extended	
	7 S 000000063 004192902 1023/001/01 1023/254/63	16 other	
	8 x 006329610 008401995 1023/000/01 1023/254/63	05 extended	
	9 S 000000063 008401932 1023/001/01 1023/254/63	OB Fat32	
	10 x 014731605 010490445 1023/000/01 1023/254/63	05 extended	
	11 S 000000063 010490382 1023/001/01 1023/254/63	83 Linux	
	12 x 025222050 004209030 1023/000/01 1023/254/63	05 extended	
	13 S 000000063 004208967 1023/001/01 1023/254/63	82 Linux swap	
	14 x 029431080 027712125 1023/000/01 1023/254/63		
	15 S 000000063 027712062 1023/001/01 1023/254/63	07 NTFS	
	16 S 000000000 000000000 0000/000/00 0000/000/00	00 empty entry	
	17 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry	
	17 P 000000000 000000000 0000/000/00 0000/000/00 18 P 000000000 000000000 0000/000/00 0000/000/00 1 020980827 sectors 10742183424 bytes	00 empty entry	
	3 000032067 sectors 16418304 bytes		
5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes			
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027712062 sectors 14188575744 bytes		
	_		
Log	Created By AccessData® FTK® Imager 2.5.3.14 071018		
Highlights:	Sector Count: 78,125,000		
	Source data size: 38146 MB		
1	MD5 checksum: bc39c3f7ee7a50e77b9ba1e65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f325065e5871		
		65e5871	
	Acquisition started: Tue Oct 30 12:34:11 2007	65e5871	
		65e5871	
	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007	65e5871	
	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007		
	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9ba1e65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250	: verified	
	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9bale65a5aeef7	: verified	
Results	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9ba1e65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250	: verified	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9ba1e65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite	: verified	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9ba1e65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250	: verified 65e5871 : verified	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9ba1e65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result AM-01 Source acquired using interface AI.	: verified 65e5871 : verified Actual Result as expected	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9ba1e65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result	: verified 65e5871 : verified Actual Result	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9ba1e65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS.	: verified 65e5871 : verified Actual Result as expected as expected	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9bale65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	: verified 65e5871 : verified Actual Result as expected as expected as expected as expected	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9bale65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS.	: verified 65e5871 : verified Actual Result as expected as expected as expected as expected as expected as expected	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9ba1e65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	: verified 65e5871 : verified Actual Result as expected	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9bale65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired.	: verified 65e5871 : verified Actual Result as expected	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9bale65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate.	: verified 65e5871 : verified Actual Result as expected	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9bale65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created.	: verified 65e5871 : verified Actual Result as expected	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9bale65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created. AO-22 Tool calculates hashes by block.	: verified 65e5871 : verified Actual Result as expected	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9ba1e65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	: verified 65e5871 : verified Actual Result as expected	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9ba1e65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	: verified 65e5871 : verified Actual Result as expected	
Results:	Acquisition started: Tue Oct 30 12:34:11 2007 Acquisition finished: Tue Oct 30 14:00:39 2007 Verification started: Tue Oct 30 14:00:39 2007 Verification finished: Tue Oct 30 14:06:46 2007 MD5 checksum: bc39c3f7ee7a50e77b9ba1e65a5aeef7 SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250 Settings: size CD (640 MB)Write Block: 19 NoWrite Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	: verified 65e5871 : verified Actual Result as expected	

5.2.2 DA-06-FLOPPY

Test Case DA-	06-FLOPPY FTK Imager 2.5.3.14	
Case Summary:	DA-06 Acquire a physical device using access interface AI to an image file.	
Assertions:	AM-02 The tool acquires digital source DS.	
	AM-03 The tool executes in execution environment XE AM-05 If image file creation is specified, the tool	
	on file system type FS.	creaces an image life
	AM-06 All visible sectors are acquired from the dig	
	AM-08 All sectors acquired from the digital source AO-01 If the tool creates an image file, the data r	
	file is the same as the data acquired by the tool.	
	AO-05 If the tool creates a multi-file image of a r	
	the individual files shall be no larger than the re AO-22 If requested, the tool calculates block hashe	
	size during an acquisition for each block acquired	<u>=</u>
	AO-23 If the tool logs any log significant informat	ion, the information is
	accurately recorded in the log file. AO-24 If the tool executes in a forensically safe e	vecution environment
	the digital source is unchanged by the acquisition	
Tester Name:	mrmw	
Test Host: Test Date:	Freddy Tue Oct 30 14:06:09 2007	
Drives:	src(floppy) dst (none) other (01-FU)	
Source	src hash (SHA1): < e2863334ac7eaabc7c8a0d62eb0d3b3a	f29f2c40 >
Setup:	src hash (MD5): < 17f6a5925be2f38eedaf435ff8b6a6f4	
-	Floppy disk	
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018	
	MD5 checksum: 17f6a5925be2f38eedaf435ff8b6a6f4 SHA1 checksum: e2863334ac7eaabc7c8a0d62eb0d3b3af	29f2c40
	Acquisition started: Tue Oct 30 14:11:19 2007	2312010
	Acquisition finished: Tue Oct 30 14:12:45 2007	
	Verification started: Tue Oct 30 14:12:45 2007	
	Verification finished: Tue Oct 30 14:12:45 2007 MD5 checksum: 17f6a5925be2f38eedaf435ff8b6a6f4	· rranified
	SHA1 checksum: e2863334ac7eaabc7c8a0d62eb0d3b3af	
	Settings: CD (640 MB)	
Results:	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate. AO-05 Multifile image created.	as expected as expected
	AO-05 Multifile image created. AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
	27 27 27 27 27 27 27 27 27 27 27 27 27 2	
Analysis:	Expected results achieved	
4	<u> </u>	

5.2.3 DA-06-FW

5.2.3 DA-00-FVV			
	06-FW FTK Imager 2.5.3.14		
Case Summary:	DA-06 Acquire a physical device using access interface AI to an image file.		
Assertions:	: AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS.		
	AM-03 The tool executes in execution environment XE.		
	AM-05 If image file creation is specified, the tool creates an image file		
	on file system type FS. AM-06 All visible sectors are acquired from the digital source.		
	AM-08 All sectors acquired from the digital source are acquired accurately.		
	AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool.		
	AO-05 If the tool creates a multi-file image of a requested size then all		
	the individual files shall be no larger than the requested size.		
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source.		
	AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
	AO-24 If the tool executes in a forensically safe execution environment,		
	the digital source is unchanged by the acquisition process.		
Tester Name:	mrmw		
Test Host:	Freddy		
Test Date: Drives:	Wed Oct 31 10:35:32 2007 src(01-IDE) dst (none) other (01-FU)		
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >		
Setup:	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E >		
	78165360 total sectors (40020664320 bytes)		
	Model (0BB-00JHC0) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63		
	2 X 020980890 057175335 1023/000/01 1023/254/63		
	3 S 000000063 000032067 1023/001/01 1023/254/63		
	5 S 000000063 002104512 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other 8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended		
	9 S 000000063 008401932 1023/001/01 1023/254/63		
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended		
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux 12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004209030 1023/000/01 1023/254/63 05 extended		
	14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027744192 1023/001/01 1023/254/63		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes		
	15 027744192 sectors 14205026304 bytes		
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 Sector Count: 78,165,360		
	Source data size: 38166 MB		
	MD5 checksum: f458f673894753fa6a0ec8b8ec63848e		
	SHA1 checksum: a48bb5665d6dc57c22db68e2f723da9aa8df82b9 Acquisition started: Wed Oct 31 10:41:27 2007		
	Acquisition finished: Wed Oct 31 10:41:27 2007 Acquisition finished: Wed Oct 31 11:18:26 2007		
	Verification started: Wed Oct 31 11:18:26 2007		
	Verification finished: Wed Oct 31 11:23:33 2007		
	MD5 checksum: f458f673894753fa6a0ec8b8ec63848e : verified		

	SHA1 checksum: a48bb5665d6dc57c22db68e2f723da9aa Settings: size CD(640MB) Write Block: 31 Tableau WriteBlocker	.8df82b9 : verified
Results:	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
	AO 24 Source 13 unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

5.2.4 DA-06-USB

Test Case DA-	06-USB FTK Imager 2.5.3.14
Case Summary:	DA-06 Acquire a physical device using access interface AI to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	mrmw
Test Host:	Freddy
Test Date:	Wed Oct 31 14:04:06 2007
Drives:	src(01-IDE) dst (none) other (01-FU)
Source Setup:	Src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > src hash (MD5): < F458F673894753FA6ADEC8B8EC63848E > 78165360 total sectors (40020664320 bytes) Model (OBB-00JHCO) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63 OC Fat32X 2 X 020980890 057175335 1023/000/01 1023/254/63 OF extended 3 S 000000063 000032067 1023/001/01 1023/254/63 OF extended 3 S 000000063 0020104515 1023/000/01 1023/254/63 OF extended 5 S 000000063 002104452 1023/000/01 1023/254/63 OF extended 5 S 000000063 002104452 1023/000/01 1023/254/63 OF extended 5 S 000000063 004192905 1023/000/01 1023/254/63 OF extended 7 S 000000063 004192905 1023/000/01 1023/254/63 OF extended 9 S 00032067 008401995 1023/000/01 1023/254/63 OF extended 9 S 000000063 008401995 1023/000/01 1023/254/63 OF extended 9 S 000000063 008401932 1023/001/01 1023/254/63 OF extended 1 S 000000063 00440845 1023/000/01 1023/254/63 OF extended 11 S 000000063 010490382 1023/001/01 1023/254/63 OF extended 11 S 00000063 004208967 1023/001/01 1023/254/63 OF extended 12 X 025222050 004209030 1023/000/01 1023/254/63 OF extended 13 S 000000063 004208967 1023/001/01 1023/254/63 OF extended 15 S 000000063 027744255 1023/000/01 1023/254/63 OF extended 15 S 000000063 027744195 1023/001/01 1023/254/63 OF extended 15 S 0000000063 027744195 1023/001/01 1023/254/63 OF extended 15 S 000000000 00000000 0000/000/000 0000/000/00 OF empty entry 17 P 000000000 00000000 0000/000/00 0000/000/00 OF empty entry 17 P 000000000 00000000 0000/000/00 0000/000/00 OF empty entry 1020980827 sectors 10742183424 bytes 1010490382 sectors 2146765824 bytes 1010490382 sectors 2154991104 bytes 1010490382 sectors 2154991104 bytes 1010490382 sectors 2154991104 bytes 1010490382 sectors 2154991104 bytes 1010490382 sectors 14205026304 bytes 1010490382 sectors 14205026304 bytes 1010490382 sectors 14205026304 bytes
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 Sector Count: 78,165,360 Source data size: 38166 MB MD5 checksum: f458f673894753fa6a0ec8b8ec63848e SHA1 checksum: a48bb5665d6dc57c22db68e2f723da9aa8df82b9 Acquisition started: Wed Oct 31 14:12:35 2007 Acquisition finished: Thu Nov 01 06:38:02 2007 Verification started: Thu Nov 01 06:38:02 2007 Verification finished: Thu Nov 01 06:44:11 2007 MD5 checksum: f458f673894753fa6a0ec8b8ec63848e: verified

	SHA1 checksum: a48bb5665d6dc57c22db68e2f723da9aa Settings: size CD(640MB) Write Block: 31 Tableau UltraBlock IDE	.8df82b9 : verified
Results:	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked

5.2.5 DA-07-CF

DA-O7 Acquire a digital source of type DS to an image file. Summary: AM-O1 The tool uses access interface SRC-AI to access the digital source. AM-O3 The tool acquires digital source DS. AM-O3 The tool executes in execution environment XE. AM-O5 If image file creation is specified, the tool creates an image file on file system type FS. AM-O6 All sectors acquired from the digital source. AM-O6 All sectors acquired from the digital source are acquired accurately. AO-O1 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-O1 if the tool creates a multi-drep the control of the control	Test Case DA-	-07-CF FTK Imager 2.5.3.14	
Assertions: AM-01 The tool acquires digital source D. AM-02 The tool acquires digital source DS. AM-03 The tool acquires digital source DS. AM-03 The tool acquires digital source DS. AM-03 The tool acquires digital source DS. AM-05 All mage file creation is specified, the tool creates an image file on file system type FS. AM-06 All sectors acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AM-01 If the tool creates an unitage file, the data represented by the image file is the same as the data acquired by the tool. AM-05 In the tool creates a multi-file image of a requested size. AM-02 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AM-02 If the tool logs any log significant information, the information is accurately recorded in the log file. AM-02 and the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Host: Frank Test Host: Fra	Case	DA-07 Acquire a digital source of type DS to an ima	age file.
AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 if the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Mame: Tester Mame: Tester Mame: Test Med Oct 31 10:48:24 2007 Drives: Source src Nash (SHA256): R CTCP0:1822DP6005315611D6814266CTPA50TC13F795AD3D323BB73C1590B80 > arc hash (SHA256): R CTCP0:1822DP6005315611D6814266CTPA50TC13F795AD3D323BB73C1590B80 > arc hash (SMA): X 5882331TAB799FA30TA3DC08F81T46606638AB > arc hash (SMA): X 5882331TAB799FA30TA3DC08F81T46606638AB > arc hash (SMA): X 5882331TAB799FA30TA3DC08F81T46606638AB > 2	Summary:		
AM-03 The tool executes in execution environment XR. AM-05 AI image file creation is specified, the tool creates an image file on file system type FS. AM-06 All sectors acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AD-01 If the tool creates an unitary file is the same as the data acquired by the tool. AD-05 If the tool creates an unit-file image of a requested size then all the individual files shall be no larger than the requested size. AD-02 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AD-02 If the tool logs any log significant information, the information is accurately recorded in the log file. AD-04 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Date: Mame: Test Date: Med Oct 31 10:48:24 2007 Prives: Src hash (RMS): SB82351780F99F30307439C088F81746606638ADB > src hash (RMS): SB82351780F99F30307439C088F81746606638ADB > src hash (RMS): TFANCE SECTION STATES AND STATES SECTION STATES AND STATES SECTION STATE	Assertions:	AM-01 The tool uses access interface SRC-AI to acce	ess the digital source.
AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All visible sectors are acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisation for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Mame: Test New Mame:		AM-02 The tool acquires digital source DS.	
file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All visible sectors are acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size then all the individual files shall be no larger than the requested size. AO-022 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-024 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Mame: Test Date: Mame: Test Date: Med Oct 31 10:48:24 2007 Drives: Sro hash (MBD5): < 776DFB84D258921DEBCF889TC13F79SAD3D323BB73C159OD80 > src hash (MBD5): < 776DFB84D258921DEBCF889TC16D78 > src hash (MBD5): < 776DFB84D2589E21DEBCF889TC16D78 > src hash (MBD5): < 776DFB84D258D258TC16D78 > src hash (MBD5): < 776DFB84D258D258TC16D78 > src hash (MBD5): < 776DFB84D258D250TC16D78 > src hash (MB			
AM-08 All visible sectors are acquired from the digital source. AM-08 All visible sectors acquired from the digital source are acquired accurately. AD-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AD-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AD-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AD-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AD-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: Test mrnw Name: Test Date: Test Ned Oct 31 10:48:24 2007 Nodel (c C Sect Ned Oct 31 10:48:24 2007 Nodel (c C Sect Ned Oct 31 10:48:24 2007 Nodel (c C Ned Ned Oct 31 10:48:24 2007 Nodel (c Ned Oct 31 10:48:24 2007 Node Oc		AM-05 If image file creation is specified, the tool	creates an image file on
AM-08 All sectors acquired from the digital source are acquired accurately. A0-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. A0-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size then all the individual files shall be no larger than the requested size then all the individual files shall be no larger than the requested size. A0-022 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-21 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester MRMW Name: Test Host: Test Frank Test Cortical State (SHA256): Cortical State (SHA256): Cortical State (SHA256): Setup: Source State (SHA1): < SBA233178DF99FA3074330C088F81746606638A0B > src hash (MD5): < Tribores Hosts (ST949656 bytes) Model (Cry) serial # () N Start LBA Length Start C/H/S Bnd C/H/S boot Partition type 1 P79813908 1141509631 0357/114/640 0337/0327/43 Bnot 79 other 2 P 168689522 1936028240 0288/115/43 0367/114/50 Bnot 65 other 3 P 1868981465 1936028192 0360/032/33 0357/0327/43 Bnot 79 other 4 P 2855881152 000055499 0372/097/50 0000/010/00 Bnot 0D other 1 1141509631 sectors 59452531072 bytes 2 1336028240 sectors 99124643880 bytes 3 13936028240 sectors 991246433040 bytes 3 13936028192 sectors 991246433040 bytes 3 13936028192 sectors 991246433040 bytes 4 00005499 sectors 28415488 bytes 5 Sector Conecks black of the observation of the sectors acquired and securat		file system type FS.	
A0-01 if the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. A0-05 if the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. A0-22 if requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. A0-23 if the tool logs any log significant information, the information is accurately recorded in the log file. A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: Test Most: Frank Test Date: Frank Test Date: Sto(C1-CP) dat (none) other (05-FU) Source sto (Ash (SMA256): <		AM-06 All visible sectors are acquired from the dig	gital source.
file is the same as the data acquired by the tool. A0-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. A0-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Mamme: Test Host: Test Host: Frank Test Date: Wed Oct 31 10:48:24 2007 Delives: Src(1-CF) dst (none) other (06-FU) Source Src hash (SHA256): Setup: C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D323BF73C1590D80 > src hash (SHA1): < 558235178br99FA307430C088F81746606638A0B > src hash (MD5): < 7766PF84B25892D12BEF2589EDC1678 > 503808 total sectors (257949696 bytes) Model (CF) serial # () N Start LBA Length Start C/H/S End C/H/S boot Fartition type 1 F 778135508 114509631 0357716/40 0357/032/45 Boot 72 other 2 F 168689522 1936028240 0288/115/43 0367/114/50 Boot 65 other 3 F 189884165 1936028192 0366/032/33 0337/032/45 Boot 70 other 1 1141509631 sectors 584452931072 bytes 2 1936028240 sectors 99124643880 bytes 2 1936028240 sectors 991246433107 bytes 4 000055499 sectors 28415488 bytes Log Created By AccessDatae FTM0 Imager 2.5.3.14 071018 Sector Count: 503,808 Source data size: 246 MB MD5 checksum: 7764f8b4d2589e21debcf589edc16d78 SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified SHA1 checksum: 5b8235178df99fa307430c0		AM-08 All sectors acquired from the digital source	are acquired accurately.
A0-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. A0-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Bots: Test Bots: Frank Test Date: Wed Oct 31 10:48:24 2007 Drives: Source Scr hash (SHA2)-56 Toole		AO-01 If the tool creates an image file, the data r	represented by the image
the individual files shall be no larger than the requested size. A0-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester mrmw Name: Test Host: Frank Test Boate: Wed Oct 31 10:48:24 2007 Drives: src(1-CF) dst (none) other (06-FU) Source src hash (SHA256): C C7CF0218222PF80DS16511D6814266C7FA507C13F795AD30323BB73C1590D80 > src hash (SHA256): S Setup: C7CF0218222PF80DS16511D6814266C7FA507C13F795AD30323BB73C1590D80 > src hash (MDS): C7F05P84B4258921DEBCF589EDC16D78 > 503808 total sectors (257949666 bytes) Model (CF) serial #) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 778135308 1141509631 0357/116/40 0357/032/45 Boot 72 other 2 F 168689522 1936028240 0280521/30375/116/40 0357/032/45 Boot 72 other 4 P 2885881152 000055499 9372/907750 0000/010/00 Boot 05 other 3 F 1869881465 1936028192 0366/032/33 0357/032/43 Boot 79 other 4 P 2885881152 000055499 9372/907750 0000/010/00 Boot 05 other 1 1141509631 sectors 594452931072 bytes 2 1936028192 sectors 991246434304 bytes 4 000055499 sectors 991246434304 bytes 4 000055499 sectors 991246434304 bytes 4 000055499 sectors 99124634304 bytes 4 000055499 sectors 99124634304 bytes 4 000055499 sectors 991246398921debcf599edc16d78 SHA1 checksum: 776df8bdd259921debcf599edc16d78 SHA1 checksum: 508235178df99fa307430c088f81746606638a0b Acquisition started: Two Oct 30 17:51:39 2007 Verification thinshed: Two Oct 30 17:51:39 2007 Verification t		file is the same as the data acquired by the tool.	
A0-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Bost: Test Bost: Frank Test Date: Wed Oct 31 10:48:24 2007 Drives: Source 1		AO-05 If the tool creates a multi-file image of a r	requested size then all
size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Host: Test Host: Frank Test Boat: Frank Test Boat: Scicl-CF) dst (none) other (06-FU) Source Sctup: Sctcl-CF) dst (none) other (06-FU) Source Sctup: Scr hash (SHA256): < CCCF0721822DFP09D5316511D6814266C7FA507C13F795AD30323BB73C1590D80 > src hash (MSD): < 528235178DF99FA307430C088F81746606638AOB > src hash (MDS): < 776DF8B492589521DB6DF589BDC16D78 > 503808 total sectors (257949696 bytes) Model (CF) serial f() N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 778135908 1141509531 03557/116/40 0357/032/43 Boot 72 other 2 F 168689522 1936028240 0288/115/44 0367/114/50 Boot 65 other 3 P 1869881465 1936028240 0288/115/44 0367/114/50 Boot 65 other 4 F 2885681152 000055499 3072/097/50 0000/010/00 Boot 0D other 1 1141509631 sectors 584452831072 bytes 2 1936028240 sectors 991246434304 bytes 4 000055499 sectors 28415488 bytes Log Highlights: Created By AccessData@ FTK@ Imager 2.5.3.14 071018 Sector Count: 503,808 Source data size: 246 MB MD5 checksum: 776df8b42589e21debcf589edc16d78 SHAI checksum: 582535784799974307408088F81746606638a0b Acquisition started: Tue Oct 30 17:51:39 2007 Verification finished: T			
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accurately recorded in the log file.		size during an acquisition for each block acquired	from the digital source.
### ADO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. ##################################		AO-23 If the tool logs any log significant informat	tion, the information is
Tester			
Tester		AO-24 If the tool executes in a forensically safe e	execution environment, the
Name: Feat Host: Frank Test Host: Frank Serior Serio			
Name: Feat Host: Frank Test Host: Frank Serior Serio			
Test Bate:		mrmw	
Test Date: Wed Oct 31 10:48:24 2007 Drives: src(C1-CF) dst (none) other (06-FU) Source src hash (SHA256): <	Name:		
Drives: src(C1-CF) dst (none) other (06-FU)			
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C7CF0218222DF80D5316511D6814266C7FA507C13F795AD30323BB73C1590D80 > src hash (SHA1): < 5B8235178DF99FA307430C088F81746606638A0B > src hash (SHA1): < 5B8235178DF99FA307430C088F81746606638A0B > src hash (SHA1): < 770DF8B4D2589E21DEBCF589EDC16D78 > 503808 total sectors (257949696 bytes)	Drives:	src(C1-CF) dst (none) other (06-FU)	
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Src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC16D78 > 503808 total sectors (257949696 bytes)	Setup:	C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D32	23BB73C1590D80 >
Model		src hash (SHA1): < 5B8235178DF99FA307430C088F817466	506638A0B >
Model (
N		503808 total sectors (257949696 bytes)	
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SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Settings: CD (640MB) Write Block: 7 Digital Intelligence UltraBlock Results: Assertion & Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-05 An image is created on file system type FS. as expected AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AO-01 Image file is complete and accurate. as expected		Verification finished: Tue Oct 30 17:51:41 2007	
Results: Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. as expected AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AM-09 Image file is complete and accurate. ASSERTION ACTUAL Result ACTUAL Result ASSERVED ASSERVED ASSERVED ASSERVED ASSERVED ASSERVED ACTUAL RESULT ASSERVED ASSERVED ASSERVED ASSERVED ASSERVED ASSERVED ACTUAL RESULT ASSERVED AS		MD5 checksum: 776df8b4d2589e21debcf589edc16d78	: verified
Results: Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. as expected AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AM-09 Image file is complete and accurate. Actual Result Actual Result As expected as expected as expected as expected as expected AM-01 Image file is complete and accurate. Actual Result as expected as expected as expected as expected as expected as expected			
Results: Assertion & Expected Result AM-01 Source acquired using interface AI. Am-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. as expected AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. Actual Result Actual Result as expected as expected as expected as expected as expected as expected		1 2 1	
Assertion & Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-05 An image is created on file system type FS. as expected AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AO-01 Image file is complete and accurate. as expected		Write Block: 7 Digital Intelligence UltraBlock	
Assertion & Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-05 An image is created on file system type FS. as expected AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AO-01 Image file is complete and accurate. as expected			
AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-05 An image is created on file system type FS. as expected AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AO-01 Image file is complete and accurate. as expected	Results:		
AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. as expected AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. as expected as expected			
AM-03 Execution environment is XE. as expected AM-05 An image is created on file system type FS. as expected AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AO-01 Image file is complete and accurate. as expected			
AM-05 An image is created on file system type FS. as expected AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AO-01 Image file is complete and accurate. as expected			as expected
AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AO-01 Image file is complete and accurate. as expected			as expected
AM-08 All sectors accurately acquired. as expected AO-01 Image file is complete and accurate. as expected		AM-05 An image is created on file system type FS.	as expected
AM-08 All sectors accurately acquired. as expected AO-01 Image file is complete and accurate. as expected		AM-06 All visible sectors acquired.	as expected
AO-01 Image file is complete and accurate. as expected			_
			_

Test Case DA-07-CF FTK Imager 2.5.3.14			
	AO-22 Tool calculates hashes by block.	option not available	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	not checked	
Analysis:	Expected results achieved	_	

5.2.6 DA-07-F12

Test Case DA-	07-F12 FTK Imager 2.5.3.14
Case	DA-07 Acquire a digital source of type DS to an image file.
Summary:	
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source.
	AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source.
	AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
	the digital source is anchanged by the dequisition process.
Tester Name:	mrmw
Test Host:	Frank
Test Date:	Thu Nov 1 07:05:48 2007
Drives: Source	<pre>src(01-IDE) dst (none) other (06-FU) src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 ></pre>
Setup:	Src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 78165360 total sectors (40020664320 bytes) Model (OBB-OJHCO) serial # (WD-MMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 Sector Count: 32,067 Source data size: 15 MB MD5 checksum: e20e3cfea80bf6f2d2aa75e829cc8cd9 SHA1 checksum: f8b72b65436de3bd394acff71d405d0389c0e9b7 Acquisition started: Wed Oct 31 14:11:57 2007 Acquisition finished: Wed Oct 31 14:11:58 2007 Verification started: Wed Oct 31 14:11:58 2007

	Verification finished: Wed Oct 31 14:11:58 2007 MD5 checksum: e20e3cfea80bf6f2d2aa75e829cc8cd9 SHA1 checksum: f8b72b65436de3bd394acff71d405d038 Settings: size CD (640 MB) Write Block: 32 Tableau WriteBlocker	
Results:	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked

5.2.7 DA-07-F16

Test Case DA-	07-F16 FTK Imager 2.5.3.14		
Case	DA-07 Acquire a digital source of type DS to an image file.		
Summary:			
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.		
	AM-02 The tool acquires digital source DS.		
	AM-03 The tool executes in execution environment XE.		
	AM-05 If image file creation is specified, the tool creates an image file on file system type FS.		
	AM-06 All visible sectors are acquired from the digital source.		
	AM-08 All sectors acquired from the digital source are acquired accurately		
	AO-01 If the tool creates an image file, the data represented by the image		
	file is the same as the data acquired by the tool.		
	AO-05 If the tool creates a multi-file image of a requested size then all		
	the individual files shall be no larger than the requested size.		
	AO-22 If requested, the tool calculates block hashes for a specified block		
	size during an acquisition for each block acquired from the digital source		
	AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment,		
	the digital source is unchanged by the acquisition process.		
	the digital boards is unchanged by the dequisition process.		
Tester Name:	mrmw		
Test Host:	Freddy		
Test Date:	Thu Nov 1 07:08:02 2007		
Drives:	src(43) dst (none) other (06-FU)		
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >		
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >		
	78125000 total sectors (4000000000 bytes)		
	Model (0BB-75JHC0) serial # (WD-WMAMC46588)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63		
	2 X 020980890 057143205 1023/000/01 1023/254/63		
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended		
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other		
	8 x 006329610 008401995 1023/000/01 1023/254/63		
	9 S 000000063 008401932 1023/001/01 1023/254/63		
	10 x 014731605 010490445 1023/000/01 1023/254/63		
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux		
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap		
	14 x 029431080 027712125 1023/000/01 1023/254/63		
	15 S 000000063 027712062 1023/001/01 1023/254/63		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027712062 sectors 14188575744 bytes		
	43F16-md5sum 1077479423 37E81FFB31C3CB38AA48B2237500908E		
Log	Created By AccessData® FTK® Imager 2.5.3.14 071018		
Log Highlights:	Sector Count: 2,104,452		
	Source data size: 1027 MB		
	MD5 checksum: 37e81ffb31c3cb38aa48b2237500908e		
	SHA1 checksum: 443ccec9a22f726daf6ce384817151c83b3ebc8b		
	Acquisition started: Thu Nov 01 07:13:18 2007		
	Acquisition finished: Thu Nov 01 07:14:27 2007		
	Verification started: Thu Nov 01 07:14:27 2007		
	Verification finished: Thu Nov 01 07:14:36 2007		

	SHA1 checksum: 443ccec9a22f726daf6ce384817151c83 Settings: size FAT (2000MB) Write Block: 31 Tableau WriteBlock	: verified Bb3ebc8b : verified
Results:	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

5.2.8 DA-07-32

Test Case DA-	07-32 FTK Imager 2.5.3.14	
Case	DA-07 Acquire a digital source of type DS to an image file.	
Summary:		
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.	
	AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE.	
	AM-05 If image file creation is specified, the tool creates an image file	
	on file system type FS.	
	AM-06 All visible sectors are acquired from the digital source.	
	AM-08 All sectors acquired from the digital source are acquired accurately	
	AO-01 If the tool creates an image file, the data represented by the image	9
	file is the same as the data acquired by the tool.	
	AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size.	
	AO-22 If requested, the tool calculates block hashes for a specified block	k
	size during an acquisition for each block acquired from the digital source	
	AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically safe execution environment,	
	the digital source is unchanged by the acquisition process.	
Tester Name: Test Host:	mrmw Frank	
Test Date:	Thu Nov 1 06:52:55 2007	
Drives:	src(01-IDE) dst (none) other (06-FU)	
Source	<pre>src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 ></pre>	
Setup:	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E >	
	78165360 total sectors (40020664320 bytes)	
	Model (OBB-00JHCO) serial # (WD-WMAMC74171)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63	
	2 X 020980890 057175335 1023/000/01 1023/254/63	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 000000063 002104512 1023/001/01 1023/254/63 06 Fat16	
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other	
	8 x 006329610 008401995 1023/000/01 1023/254/63	
	9 S 000000063 008401932 1023/001/01 1023/254/63	
	10 x 014731605 010490445 1023/000/01 1023/254/63	
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux	
	12 x 025222050 004209030 1023/000/01 1023/254/63	
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap 14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended	
	15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS	
	16 S 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	18 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes	
	5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes	
	9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes	
	15 004200907 Sectors 2134991104 Bytes 15 027744192 sectors 14205026304 bytes	
	01F32-md5 4301789183 BFF7DC64C54339DA2A9D7972C076B514	
	01F32-sha1 4301789183 B861D9E999F39750B484FFB693FF69DEC090C6B8	
Log	Created By AccessData® FTK® Imager 2.5.3.14 071018	
Highlights:	Sector Count: 8,401,932	
	Source data size: 4102 MB	
	1000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	MD5 checksum: bff7dc64c54339da2a9d7972c076b514	
	SHA1 checksum: b861d9e999f39750b484ffb693ff69dec090c6b8	

Test Case DA-	07-32 FTK Imager 2.5.3.14	
	Verification finished: Wed Oct 31 13:59:22 2007 MD5 checksum: bff7dc64c54339da2a9d7972c076b514 SHA1 checksum: b861d9e999f39750b484ffb693ff69dec Settings: size CD(640MB) Write Block: 32 Tableau WriteBlocker	
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

5.2.9 DA-07-32X

Test Case DA-	07-32X FTK Imager 2.5.3.14	
Case	DA-07 Acquire a digital source of type DS to an image file.	
Summary:		
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.	
	AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE.	
	AM-05 If image file creation is specified, the tool creates an image file	
	on file system type FS.	
	AM-06 All visible sectors are acquired from the digital source.	
	AM-08 All sectors acquired from the digital source are acquired accurately.	
	AO-01 If the tool creates an image file, the data represented by the image	
	file is the same as the data acquired by the tool.	
	AO-05 If the tool creates a multi-file image of a requested size then all	
	the individual files shall be no larger than the requested size.	
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source.	
	AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically safe execution environment,	
	the digital source is unchanged by the acquisition process.	
Tester Name:	mrmw	
Test Host:	Freddy	
Test Date:	Thu Nov 1 06:44:59 2007	
Drives:	src(43) dst (none) other (01-FU)	
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >	
	78125000 total sectors (40000000000 bytes) Model (0BB-75JHC0) serial # (WD-WMAMC46588)	
	Model (OBB-75JHCO) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63	
	2 X 020980890 057143205 1023/000/01 1023/254/63	
	3 S 000000063 000032067 1023/001/01 1023/254/63	
	4 x 000032130 002104515 1023/000/01 1023/254/63	
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16	
	6 x 002136645 004192965 1023/000/01 1023/254/63	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other	
	8 x 006329610 008401995 1023/000/01 1023/254/63	
	9 S 000000063 008401932 1023/001/01 1023/254/63	
	11 S 000000063 010490343 1023/000/01 1023/254/63 03 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux	
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended	
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap	
	14 x 029431080 027712125 1023/000/01 1023/254/63	
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS	
	16 S 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	18 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes	
	9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes	
	13 004208967 sectors 2154991104 bytes	
	15 027712062 sectors 14188575744 bytes	
	43F32x-md5sum 10742183424 5980CB0FA68E9862C65765DF50F00906	
Log	Created By AccessData® FTK® Imager 2.5.3.14 071018	
Highlights:	Sector Count: 20,980,827	
	Source data size: 10244 MB	
	MD5 checksum: 5980cb0fa68e9862c65765df50f00906	
	SHA1 checksum: 379c1ac47af956fc8c80389c2a7427a7f8fb4e89	
	Acquisition started: Thu Nov 01 06:51:39 2007	
	Acquisition finished: Thu Nov 01 07:03:12 2007 Verification started: Thu Nov 01 07:03:12 2007	
	Verification finished: Thu Nov 01 07:03:12 2007	
	OTTITION TIME NOV OF 07.07.02 2007	

Test Case DA	-07-32X FTK Imager 2.5.3.14	
	MD5 checksum: 5980cb0fa68e9862c65765df50f00906 SHA1 checksum: 379c1ac47af956fc8c80389c2a7427a7f Settings: size FAT(2000MB) Write Block: 31 Tableau WriteBlocker	
Results:		1
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

5.2.10 DA-07-NTFS

Test Case DA-	-07-NTFS FTK Imager 2.5.3.14		
Case Summary:	DA-07 Acquire a digital source of type DS to an image file.		
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.		
Tester	mrmw		
Name:			
Test Host:	Frank		
Test Date:	Thu Nov 1 07:16:50 2007 src(01-IDE) dst (none) other (06-FU)		
Drives: Source	src(01-1DE) dst (none) other (06-r0) src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >		
Setup:	STC hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 78165360 total sectors (40020664320 bytes)		
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 Sector Count: 27,744,184 Source data size: 13546 MB MD5 checksum: 28a3a4330007f75b8afa99d38ffcd257 SHA1 checksum: 8ba9460458775fa535752328d3c2f0938f6923f7		

Test Case DA	1-07-NTFS FTK Imager 2.5.3.14	
	Acquisition started: Wed Oct 31 14:17:23 2007 Acquisition finished: Wed Oct 31 14:31:10 2007 Verification started: Wed Oct 31 14:31:10 2007 Verification finished: Wed Oct 31 14:33:01 2007 MD5 checksum: 28a3a4330007f75b8afa99d38ffcd257 SHA1 checksum: 8ba9460458775fa535752328d3c2f0938 Settings: size CD (640MB) Write Block: 32 Tableau Write Blocker	
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	eight sectors missed
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked

5.2.11 DA-07-THUMB

Test Case DA-	07-THUMB FTK Imager 2.5.3.14		
Case	DA-07 Acquire a digital source of type DS to an ima	ge file.	
Summary: Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source		
	AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE AM-05 If image file creation is specified, the tool		
	on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired acc AO-01 If the tool creates an image file, the data represented by th file is the same as the data acquired by the tool.		
	AO-05 If the tool creates a multi-file image of a r the individual files shall be no larger than the re AO-22 If requested, the tool calculates block hashe size during an acquisition for each block acquired AO-23 If the tool logs any log significant informat	quested size. s for a specified block from the digital source.	
	accurately recorded in the log file. AO-24 If the tool executes in a forensically safe e the digital source is unchanged by the acquisition	xecution environment,	
Tester Name:	mrmw		
Test Host:	Freddy		
Test Date:	Wed Oct 31 13:51:39 2007		
Drives: Source	<pre>src(D5-thumb) dst (none) other (01-FU) src hash (SHA1): < D68520EF74A336E49DCCF83815B7B08F</pre>	DOE 20203 \	
Setup:	src hash (MD5): < C843593624B2B3B878596D8760B19954		
secup.	505856 total sectors (258998272 bytes)		
	Model (usb2.0Flash Disk) serial # ()		
	N Start LBA Length Start C/H/S End C/H/S bo	ot Partition type	
	1 P 778135908 1141509631 0357/116/40 0357/032/45 B	oot 72 other	
	2 P 168689522 1936028240 0288/115/43 0367/114/50 B	oot 65 other	
	3 P 1869881465 1936028192 0366/032/33 0357/032/43 Boot 79 other		
	4 P 2885681152 000055499 0372/097/50 0000/010/00 Boot 0D other		
	1 1141509631 sectors 584452931072 bytes		
	2 1936028240 sectors 991246458880 bytes		
	3 1936028192 sectors 991246434304 bytes		
	4 000055499 sectors 28415488 bytes		
Log	Created By AccessData® FTK® Imager 2.5.3.14 071018		
Highlights:	Sector Count: 505,856		
, ,	Source data size: 247 MB		
	MD5 checksum: c843593624b2b3b878596d8760b19954		
	SHA1 checksum: d68520ef74a336e49dccf83815b7b08fd	c53e38a	
	Acquisition started: Wed Oct 31 13:56:31 2007		
	Acquisition finished: Wed Oct 31 14:02:18 2007		
	Verification started: Wed Oct 31 14:02:18 2007		
	Verification finished: Wed Oct 31 14:02:21 2007		
	MD5 checksum: c843593624b2b3b878596d8760b19954 SHA1 checksum: d68520ef74a336e49dccf83815b7b08fd		
	Settings: size CD (640MB)	. Velilled	
	Write Block: 18 Forenisc USB Bridge		
Results:			
	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	
	AM-02 Source is type DS.	as expected	
	AM-03 Execution environment is XE.	as expected	
	AM-05 An image is created on file system type FS.	as expected	
	AM-06 All visible sectors acquired.	as expected	
	AM-08 All sectors accurately acquired.	as expected	
	AO-01 Image file is complete and accurate.	as expected	
	AO-05 Multifile image created.	as expected	
	AO-22 Tool calculates hashes by block.	option not available	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	not checked	

Test Case DA-	07-THUMB FTK Imager 2.5.3.14
Analvsis:	Expected results achieved

5.2.12 DA-08-ATA28

Test Case DA-	08-ATA28 FTK Imager 2.5.3.14	
Case	DA-08 Acquire a physical drive with hidden sectors	to an image file.
Summary:		
Assertions:	AM-01 The tool uses access interface SRC-AI to acce AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE AM-05 If image file creation is specified, the tool on file system type FS. AM-06 All visible sectors are acquired from the digi AM-07 All hidden sectors are acquired from the digi AM-08 All sectors acquired from the digital source AO-01 If the tool creates an image file, the data refile is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a rethe individual files shall be no larger than the reaO-22 If requested, the tool calculates block hashes size during an acquisition for each block acquired AO-23 If the tool logs any log significant informat accurately recorded in the log file.	creates an image file ital source. tal source. are acquired accurately. epresented by the image equested size then all quested size. s for a specified block from the digital source.
	AO-24 If the tool executes in a forensically safe ex	xecution environment,
	the digital source is unchanged by the acquisition	
Tester Name:	mrmw	
Test Host:	Frank	
Test Date:	Tue Oct 30 12:56:18 2007	
Drives:	src(42) dst (none) other (06-FU)	DD040220 \
Source Setup:	<pre>src hash (SHA1): < 5A75399023056E0EB905082B35F8FAA1DB049229 > src hash (MD5): < F4B9AAB24554EEEB2A962BDA554A9252 > 78165360 total sectors (40020664320 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400JB-00JJC0) serial # (WD-WCAMA3958512) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 070348572 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 3 P 000000000 000000000 0000/000/00 0000/000/00 4 P 000000000 000000000 0000/000/00 0000/000/00 00 empty entry 4 P 00000000 000000000 0000/000/00 0000/000/00 00 empty entry 1 070348572 sectors 36018468864 bytes HPA created BIOS, XBIOS and Direct disk geometry Reporter (BXDR) BXDR 128 /S70000000 /P /fbxdrlog.txt Setting Maximum Addressable Sector to 70000000 MAS now set to 70000000 Hashes with HPA in place md5:9BF3C3DEADE47056A1DDC073C5F6B2E2 shal:D76F909482B00767B62C295CADE202F92E61CD2E</pre>	
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 Sector Count: 70,000,001 Source data size: 34179 MB MD5 checksum: 9bf3c3deade47056a1ddc073c5f6b2e2 SHA1 checksum: d76f909482b00767b62c295cade202f92e61cd2e Acquisition started: Tue Oct 30 12:57:06 2007 Acquisition finished: Tue Oct 30 14:17:13 2007 Verification started: Tue Oct 30 14:17:13 2007 Verification finished: Tue Oct 30 14:21:49 2007 MD5 checksum: 9bf3c3deade47056a1ddc073c5f6b2e2: verified SHA1 checksum: d76f909482b00767b62c295cade202f92e61cd2e: verified Settings: CD (640MB)Write Block: 2 NoWrite	
Results:		
Results:	Assertion & Expected Result	Actual Result
Results:	AM-01 Source acquired using interface AI.	as expected
Results:		

	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-07 All hidden sectors acquired.	HPA not acquired
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results not achieved	

5.2.13 DA-08-ATA48

m	00 3 7 3 4 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
	08-ATA48 FTK Imager 2.5.3.14	
Case	DA-08 Acquire a physical drive with hidden sectors	to an image file.
Summary:	24 01 52 4 7	
Assertions:	AM-01 The tool uses access interface SRC-AI to acce	ss the digital source.
	AM-02 The tool acquires digital source DS.	
	AM-03 The tool executes in execution environment XE.	
	AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source.	
	AM-07 All hidden sectors are acquired from the digi	
	AM-08 All sectors acquired from the digital source	
	AO-01 If the tool creates an image file, the data re	epresented by the image
	file is the same as the data acquired by the tool.	
	AO-05 If the tool creates a multi-file image of a requested size then all	
	the individual files shall be no larger than the re-	
	AO-22 If requested, the tool calculates block hashe	s for a specified block
	size during an acquisition for each block acquired	
	AO-23 If the tool logs any log significant informat	ion, the information is
	accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically safe e	xecution environment,
	the digital source is unchanged by the acquisition	process.
Tester Name:	mrmw	
Test Host:	Frank	
Test Date:	Tue Dec 18 13:08:38 2007	
Drives:	src(4B) dst (none) other (01-FU)	
Source	src hash (SHA1): < F409920836FED76DBB60DEEEF467A6DD	FD5BF/8F >
Setup:	src hash (MD5): < B5641B5A594912B4D60518304B1DE698	
secup:	, ,	
	390721968 total sectors (200049647616 bytes)	
	24320/254/63 (max cyl/hd values)	
	24321/255/63 (number of cyl/hd)	7707 7 700 500 640
	IDE disk: Model (WDC WD2000JB-00GVC0) serial # (WD-	
	N Start LBA Length Start C/H/S End C/H/S bo	
	1 P 000000063 351646722 0000/001/01 1023/254/63 Bo	
	2 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	3 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	4 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	1 351646722 sectors 180043121664 bytes	
	HPA created	
	BIOS, XBIOS and Direct disk geometry Reporter (BXDR)
	BXDR 128 /S351000000 /P /fHPA.TXT	
	Setting Maximum Addressable Sector to 351000000	
	MAS now set to 351000000	
	Hashes with HPA in place	
	md5:6BAFEFC000470C126434D933429C879B	
	sha1:2D50DBD82CD3DA90A6E5BF13B2B40808C40998A1	
Log	Created By AccessData® FTK® Imager 2.5.3.14 071018	
Highlights:	Sector Count: 351,000,001	
, , ,	Source data size: 171386 MB	
	MD5 checksum: 6bafefc000470c126434d933429c879b	
	SHA1 checksum: 2d50dbd82cd3da90a6e5bf13b2b40808c	40998a1
	Acquisition started: Tue Dec 18 13:07:31 2007	
	Acquisition finished: Tue Dec 18 14:31:25 2007	
	Verification finished: Tue Dec 18 14:31:25 2007 Verification started: Tue Dec 18 14:31:26 2007 Verification finished: Tue Dec 18 14:56:59 2007	
		· verified
	MD5 checksum: 6bafefc000470c126434d933429c879b : verified SHA1 checksum: 2d50dbd82cd3da90a6e5bf13b2b40808c40998a1 : verified Settings: CD	
	Settings: CD Write Block: 4 Guidance Software FastBloc IDE	
	witte block: 4 Guidance Soltware FastBloc IDE	
Dag. 14 :		
Results:	Described & Francisco Breeze	
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected

Test Case DA-	08-ATA48 FTK Imager 2.5.3.14	
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-07 All hidden sectors acquired.	HPA not acquired
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results not achieved	

5.2.14 DA-08-DCO

Test Case DA-	08-DCO FTK Imager 2.5.3.14	
Case	DA-08 Acquire a physical drive with hidden sectors	to an image file.
Summary:		
Assertions:	AM-01 The tool uses access interface SRC-AI to acce	ess the digital source.
	AM-02 The tool acquires digital source DS.	
	AM-03 The tool executes in execution environment XE	
	AM-05 If image file creation is specified, the tool	. creates an image file
	on file system type FS.	
	AM-06 All visible sectors are acquired from the dig	ital source.
	AM-07 All hidden sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurate AO-01 If the tool creates an image file, the data represented by the image is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all	
	the individual files shall be no larger than the re	±
	AO-22 If requested, the tool calculates block hashe	-
	size during an acquisition for each block acquired	
	AO-23 If the tool logs any log significant informat	tion, the information is
	accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically safe e	
	the digital source is unchanged by the acquisition	process.
Tester Name:	mrmw	
Test Host:	Frank	
Test Date:	Tue Oct 30 14:32:14 2007	
Drives:	src(92) dst (none) other (06-FU)	
Source	src hash (SHA1): < 63E6F7BD3040A8ADA2CF8FBF66A805B7	'6DF10481 >
Setup:	src hash (MD5): < E095DD1BD0B0DD6E603153A3FE1A2F3E	: >
	58633344 total sectors (30020272128 bytes)	
	58167/015/63 (max cyl/hd values)	
	58168/016/63 (number of cyl/hd)	
	IDE disk: Model (WDC WD300BB-00CAA0) serial # (WD-W	MA8H2140350)
	N Start LBA Length Start C/H/S End C/H/S bo	ot Partition type
	1 P 000000063 058605057 0000/001/01 1023/254/63 Bc	oot 07 NTFS
	2 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	3 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	4 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	1 058605057 sectors 30005789184 bytes	
	Hashes with DCO in place:	
	md5:525963C6789423396FE1F3202A8CBD04	
sha1.txt:55A3CFE756B7B0034DCCE71F7D7A477		
Log	Created By AccessData® FTK® Imager 2.5.3.14 071018	
Highlights:	Sector Count: 52,770,010	
	Source data size: 25766 MB	
	MD5 checksum: 525963c6789423396fe1f3202a8cbd04	
	SHA1 checksum: 55a3cfe756b7b0034dcce71f7d7a477d8	681b781
	Acquisition started: Mon Oct 29 22:31:15 2007	
	Acquisition finished: Mon Oct 29 23:38:18 2007	
	Verification started: Mon Oct 29 23:38:18 2007	
	Verification finished: Mon Oct 29 23:41:47 2007	
	MD5 checksum: 525963c6789423396fe1f3202a8cbd04	
	SHA1 checksum: 55a3cfe756b7b0034dcce71f7d7a477d8	681b781 : verified
	Settings: size FAT(2000)Write Block: 2 NoWrite	
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-07 All hidden sectors acquired.	DCO not acquired
AM-08 All sectors accurately acquired. as expected		
	AO-01 Image file is complete and accurate.	as expected
1	Ind the image time to complete and accurate.	as capeceea

Test Case DA-08-DCO FTK Imager 2.5.3.14		
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
		-
Analysis:	Expected results not achieved	

5.2.15 DA-09

Mast Casa D3	00 THY THOUSE 2 5 2 14
	-09 FTK Imager 2.5.3.14
Case Summary:	DA-09 Acquire a digital source that has at least one faulty data sector.
Summary: Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AM-09 If unresolved errors occur while reading from the selected digital source, the tool notifies the user of the error type and location within the digital source. AM-10 If unresolved errors occur while reading from the selected digital source, the tool uses a benign fill in the destination object in place of the inaccessible data. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
	argital source is unchanged by the acquisition process.
Tester Name:	mrmw
Test Host:	Freddy
Test Date:	Tue Oct 30 14:13:22 2007
Drives:	src(ED-BAD-CPR1) dst (none) other (01-FU)
Source Setup:	No before hash for ED-BAD-CPR1 120103200 total sectors (61492838400 bytes) Drive with known bad sectors Vendor: Maxtor Model: DiamondMax Plus 9 Known Bad Sector List for ED-CPR-BAD-1 Manufacturer: Maxtor Model: 6Y060L0 DiamondMax Plus 9 Serial Number: Y27KR6CE Capacity: 60GB Interface: PATA 54 faulty sectors 10069095, 10069911, 12023808, 18652594, 18656041, 18656857, 18660303, 18661119, 19746716-19746717, 22233904, 23098370, 23383001, 24102466-24102467, 24104250, 24106656, 24107458, 28959971-28959972, 41825791, 41828995, 52654580, 52655318, 60522984, 68643842-68643843, 69973290, 72714626, 72715293, 82148809, 82148810, 83810525, 85310861, 85313430, 85314038-85314039, 86321211, 86323780, 87186066, 87856313, 87856922, 97191260-97191261, 100093150-100093151, 103861021, 109706975-109706976, 110347947, 110350122-110350123, 115664758, 115835518
Log Highlights:	Destination setup 156301488 sectors wiped with F0 Created By AccessData® FTK® Imager 2.5.3.14 071018 Sector Count: 120,103,200 Source data size: 58644 MB MD5 checksum: ef3e63c324522760c838f2a93b7180d3 SHA1 checksum: 73c3e7b8b73dc60a04dc1db1463bef57231901df Acquisition started: Tue Oct 30 14:19:51 2007 Acquisition finished: Tue Oct 30 16:34:10 2007 Verification started: Tue Oct 30 16:34:10 2007 Verification finished: Tue Oct 30 16:43:30 2007 MD5 checksum: ef3e63c324522760c838f2a93b7180d3 : verified SHA1 checksum: 73c3e7b8b73dc60a04dc1db1463bef57231901df : verified

```
Test Case DA-09 FTK Imager 2.5.3.14
              Read errors:
              ATTENTION:
              The following sector(s) on the source drive could not be read:
                      10069911
                      12023808
                     18652594
                     18656041
                      18656857
                      18660303
                     18661119
                      19746716 through 19746717
                      22233904
                     23098370
                      23383001
                      24102466 through 24102467
                      24104250
                      24106656
                      24107458
                      28959971 through 28959972
                     41825791
                      41828995
                      52654580
                      52655318
                      60522984
                      68643842 through 68643843
                      69973290
                     72714626
                     72715293
                      82148809 through 82148810
                      83810525
                      85310861
                     85313430
                      85314038 through 85314039
                      86321211
                      86323780
                      87186066
                      87856313
                      87856922
                      97191260 through 97191261
                      100093150 through 100093151
                     103861021
                     109706975 through 109706976
                      110347947
                      110350122 through 110350123
                      115664758
                      115835518
              The contents of these sectors were replaced with zeros in the image.
              2 different run lengths observed in 44 runs
              34 runs of length 1
              10 runs of length 2
              54 sectors differ
                  54 zero filled and 0 varying non-zero filled
              Settings: CD (640MB)Write Block: 19 NoWrite
Results:
              Assertion & Expected Result
                                                                    Actual Result
               AM-01 Source acquired using interface AI.
                                                                    as expected
               AM-02 Source is type DS.
                                                                    as expected
               AM-03 Execution environment is XE.
                                                                    as expected
               AM-05 An image is created on file system type FS.
                                                                    as expected
               AM-06 All visible sectors acquired.
                                                                    as expected
               AM-08 All sectors accurately acquired
                                                                    as expected
               AM-09 Error logged.
                                                                    as expected
               AM-10 Benign fill replaces inaccessible sectors.
                                                                    as expected
               AO-01 Image file is complete and accurate.
                                                                    as expected
               AO-05 Multifile image created.
                                                                    as expected
                                                                    option not available
               AO-22 Tool calculates hashes by block.
               AO-23 Logged information is correct.
                                                                    as expected
```

Test Case DA-09 FTK Imager 2.5.3.14			
	AO-24 Source is unchanged by acquisition.	not checked	
Analysis:	Expected results achieved		

5.2.16 DA-10-DD

mast Casa Da	10 DD TIME THOSE 2 F 2 14
	-10-DD FTK Imager 2.5.3.14 DA-10 Acquire a digital source to an image file in an alternate format.
	DA-10 Acquire a digital source to an image life in an alternate format.
Case Summary: Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-02 If an image file format is specified, the tool creates an image file in the specified format. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	mrmw
Test Host:	Frank
Test Date:	Wed Oct 31 11:01:17 2007
Drives: Source	<pre>src(C1-CF) dst (none) other (06-FU) src hash (SHA256): <</pre>
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D323BB73C1590D80 > src hash (SHA1): < 5B8235178DF99FA307430C088F81746606638A0B > src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC16D78 > 503808 total sectors (257949696 bytes) Model (
Highlights:	Sector Count: 503,808 Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf589edc16d78 SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b Acquisition started: Tue Oct 30 18:02:58 2007 Acquisition finished: Tue Oct 30 18:04:00 2007 Verification started: Tue Oct 30 18:04:00 2007 Verification finished: Tue Oct 30 18:04:02 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78: verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b: verified Verification started: Tue Oct 30 18:49:14 2007 Verification finished: Tue Oct 30 18:49:16 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78: verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b: verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b: verified Verification started: Tue Oct 30 21:43:15 2007 Verification finished: Tue Oct 30 21:43:19 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78: verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b: verified Verification started: Tue Oct 30 21:46:51 2007 Verification started: Tue Oct 30 21:46:53 2007 Verification finished: Tue Oct 30 21:46:53 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78: verified SHA1 checksum: 776df8b4d2589e21debcf589edc16d78: verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b: verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b: verified

	Settings: size CD(640MB) Write Block: 7 Digital Intelligence UltraBlock	
Results:	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-02 Image file in specified format.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	A0-24 Source is unchanged by acquisition. Expected results achieved	not checked

5.2.17 DA-10-SMART

	DA-10-OMART	
	-10-SMART FTK Imager 2.5.3.14	
Case	DA-10 Acquire a digital source to an image file in	an alternate format.
Summary: Assertions:	AM-01 The tool uses access interface SRC-AI to acce	es the digital source
ABSCICIONS.	AM-02 The tool acquires digital source DS.	33 the digital source.
	AM-03 The tool executes in execution environment XE	
	AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-02 If an image file format is specified, the tool creates an image file in the specified format. AO-05 If the tool creates a multi-file image of a requested size then all	
	the individual files shall be no larger than the re	· · · · · · · · · · · · · · · · · · ·
	AO-22 If requested, the tool calculates block hashe	s for a specified block
	size during an acquisition for each block acquired	
	AO-23 If the tool logs any log significant informat	ion, the information is
	accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically safe e	
	digital source is unchanged by the acquisition proc	ess.
Tester	mrmw	
Name: Test Host:	Freddy	
Test Date:	Wed Oct 31 13:36:59 2007	
Drives:	src(c1-cf) dst (01-FU) other (none)	
Source	src hash (SHA256): <	
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D32	3BB73C1590D80 >
	src hash (SHA1): < 5B8235178DF99FA307430C088F817466	
	<pre>src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC16D78</pre>	>
	503808 total sectors (257949696 bytes)	
	Model (CF) serial # ()	
	N Start LBA Length Start C/H/S End C/H/S bo 1 P 778135908 1141509631 0357/116/40 0357/032/45 B	==
	2 P 168689522 1936028240 0288/115/43 0367/114/50 Boot 65 other 3 P 1869881465 1936028192 0366/032/33 0357/032/43 Boot 79 other 4 P 2885681152 000055499 0372/097/50 0000/010/00 Boot 0D other	
	1 1141509631 sectors 584452931072 bytes	
	2 1936028240 sectors 991246458880 bytes	
	3 1936028192 sectors 991246434304 bytes	
	4 000055499 sectors 28415488 bytes	
Log	Created By AccessData® FTK® Imager 2.5.3.14 071018	
Highlights:	Sector Count: 503,808	
	Source data size: 246 MB	
	MD5 checksum: 776df8b4d2589e21debcf589edc16d78	6620.01
	SHA1 checksum: 5b8235178df99fa307430c088f8174660 Acquisition started: Wed Oct 31 13:41:48 2007	6638aUD
	Acquisition started: Wed Oct 31 13:41:48 2007 Acquisition finished: Wed Oct 31 13:42:51 2007	
	Verification started: Wed Oct 31 13:42:51 2007	
	Verification finished: Wed Oct 31 13:42:53 2007	
	MD5 checksum: 776df8b4d2589e21debcf589edc16d78	: verified
	SHA1 checksum: 5b8235178df99fa307430c088f8174660	6638a0b : verified
	Settings: size FAT(2000)	
	Write Block: 7 Digital Intelligence UltraBlock	
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired. as expected	
İ	AO-01 Image file is complete and accurate.	as expected

Test Case DA-10-SMART FTK Imager 2.5.3.14			
	AO-02 Image file in specified format.	as expected	
	AO-05 Multifile image created.	as expected	
	AO-22 Tool calculates hashes by block.	option not available	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	not checked	
		_	
Analysis:	Expected results achieved		

5.2.18 DA-12

Test Case DA	-12 FTK Imager 2.5.3.14	
Case Summary:	DA-12 Attempt to create an image file where there i	s insufficient space.
Assertions:	AM-01 The tool uses access interface SRC-AI to acce AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE AM-05 If image file creation is specified, the tool file system type FS. AO-04 If the tool is creating an image file and the on the image destination device to contain the image notify the user. AO-23 If the tool logs any log significant informat accurately recorded in the log file. AO-24 If the tool executes in a forensically safe edigital source is unchanged by the acquisition products	creates an image file on ere is insufficient space ge file, the tool shall cion, the information is execution environment, the
Tester Name:	mrmw	
Test Host:	Frank	
Test Date:	Wed Oct 31 14:58:42 2007	
Drives:	src(C1-CF) dst (none) other (06-FU)	
Source	src hash (SHA256): <	
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D32 src hash (SHA1): < 5B8235178DF99FA307430C088F817466 src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC16D78 503808 total sectors (257949696 bytes) Model (506638A0B > B > B > B > B > B > B > B > B > B >
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 Sector Count: 503,808 Source data size: 246 MB	
FTK Imager needs 246 MB to write the next image segment. Only 209 MB are available in N:\.		×
	Do you want to write the remaining image segments in a new loo	cation?
	Acquisition started: Tue Oct 30 22:00:24 2007 Acquisition finished: Tue Oct 30 22:03:24 2007 Settings: size 1500 MB Write Block: 7 Digital Intelligence UltraBlock	
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AO-04 User notified if space exhausted.	as expected

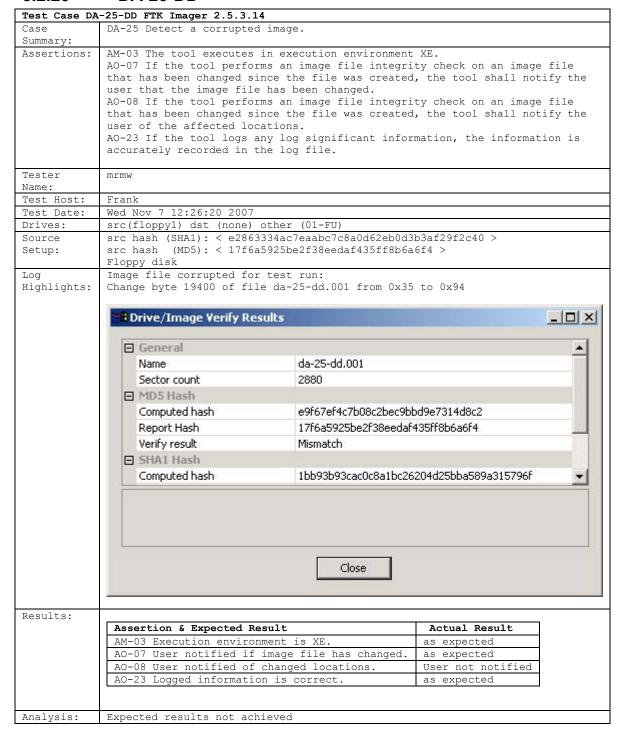
Test Case DA	-12 FTK Imager 2.5.3.14	
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

5.2.19 DA-24-DD

Test Case DA	-24-DD FTK Imager 2.5.3.14	
Case	DA-24 Verify a valid image.	
Summary:		
Assertions:	AM-03 The tool executes in execution enviro AO-06 If the tool performs an image file in that has not been changed since the file wa the user that the image file has not been c AO-23 If the tool logs any log significant accurately recorded in the log file.	tegrity check on an image file s created, the tool shall notify hanged.
Tester Name:	mrmw	
Test Host:	Freddy	
Test Date:	Mon Nov 5 15:26:10 2007	
Drives:	src(C1-CF) dst (06-FU) other (06-FU)	
Source Setup:	src hash (SHA256): <	8F81746606638A0B > EDC16D78 > H/S boot Partition type 032/45 Boot 72 other 114/50 Boot 65 other /032/43 Boot 79 other
Log Highlights:	Verification started: Tue Oct 30 18:49:14 Verification finished: Tue Oct 30 18:49:16 MD5 checksum: 776df8b4d2589e21debcf589e SHA1 checksum: 5b8235178df99fa307430c088 Verification started: Tue Oct 30 21:43:15 Verification finished: Tue Oct 30 21:43:19 MD5 checksum: 776df8b4d2589e21debcf589e	dc16d78 f81746606638a0b 2007 2007 2007 2007 dc16d78: verified f81746606638a0b: verified 2007 2007 dc16d78: verified
Results:	Assertion & Expected Result AM-03 Execution environment is XE. AO-06 Tool verifies image file unchanged. AO-23 Logged information is correct.	Actual Result as expected as expected as expected

Test Case DA-	-24-DD FTK Imager 2.5.3.14
Analysis:	Expected results achieved

5.2.20 DA-25-DD



5.2.21 DA-26-E01-TO-SMART

Test Case DA	-26-E01-TO-SMART FTK Imager 2.5.3.14	
Case Summary:	DA-26 Convert an image to an alternate in	mage file format.
Assertions:	AM-03 The tool executes in execution env AO-09 If the tool converts a source imag image file in another format, the acquir image file is the same as the acquired d AO-23 If the tool logs any log significa accurately recorded in the log file.	e file from one format to a target ed data represented in the target ata in the source image file.
Tester	mrmw	
Name:	To a did	
Test Host:	Freddy Mon Nov 5 14:53:37 2007	
Test Date: Drives:	src(C1-CF) dst (06-FU) other (06-FU)	
Source	src hash (SHA256): <	
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C1 src hash (SHA1): < 5B8235178DF99FA307430 src hash (MD5): < 776DF8B4D2589E21DEBCF 503808 total sectors (257949696 bytes) Model (CF) serial # ()	C088F81746606638A0B > 589EDC16D78 > C/H/S boot Partition type 57/032/45 Boot 72 other 67/114/50 Boot 65 other 357/032/43 Boot 79 other
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3 MD5 verification hash: 776df8b4d2589e21 Sector Count: 503,808 Operating system: Windows 2003 Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf5 SHA1 checksum: 5b8235178df99fa307430c Acquisition started: Mon Nov 05 14:52 Acquisition finished: Mon Nov 05 14:52 Verification started: Mon Nov 05 14:52 Verification finished: Mon Nov 05 14:52 MD5 checksum: 776df8b4d2589e21debcf5 SHA1 checksum: 5b8235178df99fa307430c Settings: size 1500 MB	debcf589edc16d78 89edc16d78 088f81746606638a0b :41 2007 :47 2007 :47 2007 :50 2007
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-09 Tool converts image file format.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.22 DA-26-E01-TO-DD

Test Case DA	-26-E01-TO-DD FTK Imager 2.5.3.14	
Case Summary:	DA-26 Convert an image to an alternate in	mage file format.
Assertions:	AM-03 The tool executes in execution env AO-09 If the tool converts a source imag image file in another format, the acquir image file is the same as the acquired d AO-23 If the tool logs any log significa accurately recorded in the log file.	e file from one format to a target ed data represented in the target ata in the source image file.
Tester	mrmw	
Name:	Die dale	
Test Host: Test Date:	Freddy Mon Nov 5 14:49:59 2007	
Drives:	src(C1-CF) dst (06-FU) other (06-FU)	
Source	src hash (SHA256): <	
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C1 src hash (SHA1): < 5B8235178DF99FA307430 src hash (MD5): < 776DF8B4D2589E21DEBCF 503808 total sectors (257949696 bytes) Model (C088F81746606638A0B > 589EDC16D78 > C/H/S boot Partition type 57/032/45 Boot 72 other 67/114/50 Boot 65 other 357/032/43 Boot 79 other
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3 MD5 verification hash: 776df8b4d2589e21 Sector Count: 503,808 Operating system: Windows 2003 Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf5 SHA1 checksum: 5b8235178df99fa307430c Acquisition started: Mon Nov 05 14:49 Acquisition finished: Mon Nov 05 14:49 Verification started: Mon Nov 05 14:49 Verification finished: Mon Nov 05 14:49 MD5 checksum: 776df8b4d2589e21debcf5 SHA1 checksum: 5b8235178df99fa307430c Settings: size 1500 MB	debcf589edc16d78 89edc16d78 088f81746606638a0b :18 2007 :23 2007 :23 2007 :25 2007
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-09 Tool converts image file format.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.23 DA-26-SMART-TO-E01

Test Case DA	-26-SMART-TO-E01 FTK Imager 2.5.3.14	
Case Summary:	DA-26 Convert an image to an alternate in	mage file format.
Assertions:	AM-03 The tool executes in execution env AO-09 If the tool converts a source imag image file in another format, the acquir image file is the same as the acquired d AO-23 If the tool logs any log significa accurately recorded in the log file.	e file from one format to a target ed data represented in the target ata in the source image file.
Tester	mrmw	
Name:	Des dels	
Test Host: Test Date:	Freddy Mon Nov 5 15:06:04 2007	
Drives:	src(C1-CF) dst (01-FU) other (01-FU)	
Source	src hash (SHA256): <	
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C1 src hash (SHA1): < 5B8235178DF99FA307430 src hash (MD5): < 776DF8B4D2589E21DEBCF 503808 total sectors (257949696 bytes) Model (C088F81746606638A0B > 589EDC16D78 > C/H/S boot Partition type 57/032/45 Boot 72 other 67/114/50 Boot 65 other 357/032/43 Boot 79 other
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3 MD5 verification hash: 776df8b4d2589e21 Sector Count: 503,808 Operating system: Windows XP Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf5 SHA1 checksum: 5b8235178df99fa307430c Acquisition started: Mon Nov 05 15:05 Acquisition finished: Mon Nov 05 15:05 Verification started: Mon Nov 05 15:05 Verification finished: Mon Nov 05 15:05 MD5 checksum: 776df8b4d2589e21debcf5 SHA1 checksum: 5b8235178df99fa307430c Settings: size 1500 MB	debcf589edc16d78 89edc16d78 088f81746606638a0b :24 2007 :30 2007 :30 2007 :33 2007
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-09 Tool converts image file format.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	
	Imposted results delitered	

5.2.24 DA-26-SMART-TO-DD

Test Case DA	-26-SMART-TO-DD FTK Imager 2.5.3.14	
Case Summary:	DA-26 Convert an image to an alternate in	mage file format.
Assertions:	AM-03 The tool executes in execution env AO-09 If the tool converts a source imag image file in another format, the acquir image file is the same as the acquired d AO-23 If the tool logs any log significa accurately recorded in the log file.	e file from one format to a target ed data represented in the target ata in the source image file.
Tester	mrmw	
Name:	Die dale	
Test Host: Test Date:	Freddy Mon Nov 5 15:02:13 2007	
Drives:	src(C1-CF) dst (01-FU) other (01-FU)	
Source	src hash (SHA256): <	
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C1 src hash (SHA1): < 5B8235178DF99FA307430 src hash (MD5): < 776DF8B4D2589E21DEBCF 503808 total sectors (257949696 bytes) Model (C088F81746606638A0B > 589EDC16D78 > C/H/S boot Partition type 57/032/45 Boot 72 other 67/114/50 Boot 65 other 357/032/43 Boot 79 other
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3 MD5 verification hash: 776df8b4d2589e21 Sector Count: 503,808 Operating system: Windows XP Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf5 SHA1 checksum: 5b8235178df99fa307430c Acquisition started: Mon Nov 05 15:01 Acquisition finished: Mon Nov 05 15:01 Verification started: Mon Nov 05 15:01 Verification finished: Mon Nov 05 15:02 MD5 checksum: 776df8b4d2589e21debcf5 SHA1 checksum: 5b8235178df99fa307430c Settings: size 1500 MB	debcf589edc16d78 89edc16d78 088f81746606638a0b :52 2007 :58 2007 :58 2007 :01 2007
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-09 Tool converts image file format.	as expected
	AO-23 Logged information is correct.	as expected
Analucia.	Exported regults askieved	
Analysis:	Expected results achieved	

5.2.25 DA-26-DD-TO-E01

Case Summary: Assertions:	DA-26 Convert an image to an alternate in AM-03 The tool executes in execution env		
Assertions:			
	AO-09 If the tool converts a source imaginage file in another format, the acquirinage file is the same as the acquired d. AO-23 If the tool logs any log significate accurately recorded in the log file.	e file from one format to ed data represented in th ata in the source image f	ne target file.
Tester	mrmw		
Name:			
Test Host:	Freddy		
Test Date:	Mon Nov 5 14:40:28 2007		
Drives:	src(C1-CF) dst (06-FU) other (06-FU)		
Source	src hash (SHA256): <		
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C1 src hash (SHA1): < 5B8235178DF99FA307430 src hash (MD5): < 776DF8B4D2589E21DEBCF 503808 total sectors (257949696 bytes) Model (C088F81746606638A0B > 589EDC16D78 > C/H/S boot Partition t 57/032/45 Boot 72 other 67/114/50 Boot 65 other 357/032/43 Boot 79 other	
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3 Sector Count: 503,808 Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf5 SHA1 checksum: 5b8235178df99fa307430c Acquisition started: Mon Nov 05 14:42 Acquisition finished: Mon Nov 05 14:42 Verification started: Mon Nov 05 14:42 Verification finished: Mon Nov 05 14:42 Werification finished: Mon Nov 05 14:42 MD5 checksum: 776df8b4d2589e21debcf5 SHA1 checksum: 5b8235178df99fa307430c Settings: size 1500 MB	39edc16d78 088f81746606638a0b :19 2007 :24 2007 :24 2007 :26 2007	ified
Results:			
	Assertion & Expected Result	Actual Result	
	AM-03 Execution environment is XE.	as expected	
	AO-09 Tool converts image file format.	as expected	
	AO-23 Logged information is correct.	as expected	
Analysis:	Expected results achieved		

5.2.26 DA-26-DD-TO-SMART

Test Case DA-	-26-DD-TO-SMART FTK Imager 2.5.3.14		
Case	DA-26 Convert an image to an alternate image file format.		
Summary:			
Assertions:	AM-03 The tool executes in execution env AO-09 If the tool converts a source imagimage file in another format, the acquirimage file is the same as the acquired d AO-23 If the tool logs any log significa accurately recorded in the log file.	e file from one format to a targe ed data represented in the target ata in the source image file.	t
Tester	mrmw		
Name:			
Test Host:	Freddy		
Test Date:	Mon Nov 5 14:47:19 2007		
Drives:	src(C1-CF) dst (06-FU) other (06-FU)		
Source Setup:	<pre>src hash (SHA256): < C7CF0218222DF80D5316511D6814266C7FA507C1 src hash (SHA1): < 5B8235178DF99FA307430 src hash (MD5): < 776DF8B4D2589E21DEBCF 503808 total sectors (257949696 bytes) Model (</pre>	C088F81746606638A0B > 589EDC16D78 > C/H/S boot Partition type 57/032/45 Boot 72 other 67/114/50 Boot 65 other 357/032/43 Boot 79 other	
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3 Sector Count: 503,808 Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf5 SHA1 checksum: 5b8235178df99fa307430c Acquisition started: Mon Nov 05 14:45 Acquisition finished: Mon Nov 05 14:45 Verification started: Mon Nov 05 14:45 Verification finished: Mon Nov 05 14:45 Verification finished: Mon Nov 05 14:45 SHA1 checksum: 776df8b4d2589e21debcf5 SHA1 checksum: 5b8235178df99fa307430c Settings: size 1500 MB	89edc16d78 088f81746606638a0b :22 2007 :28 2007 :28 2007 :30 2007	
Results:			
	Assertion & Expected Result	Actual Result	
	AM-03 Execution environment is XE.	as expected	
	AO-09 Tool converts image file format.	as expected	
	AO-23 Logged information is correct.	as expected	
Analysis:	Expected results achieved		

About the National Institute of Justice

NIJ is the research, development, and evaluation agency of the U.S. Department of Justice. NIJ's mission is to advance scientific research, development, and evaluation to enhance the administration of justice and public safety. NIJ's principal authorities are derived from the Omnibus Crime Control and Safe Streets Act of 1968, as amended (see 42 U.S.C. §§ 3721–3723).

The NIJ Director is appointed by the President and confirmed by the Senate. The Director establishes the Institute's objectives, guided by the priorities of the Office of Justice Programs, the U.S. Department of Justice, and the needs of the field. The Institute actively solicits the views of criminal justice and other professionals and researchers to inform its search for the knowledge and tools to guide policy and practice.

Strategic Goals

NIJ has seven strategic goals grouped into three categories:

Creating relevant knowledge and tools

- 1. Partner with State and local practitioners and policymakers to identify social science research and technology needs.
- 2. Create scientific, relevant, and reliable knowledge—with a particular emphasis on terrorism, violent crime, drugs and crime, cost-effectiveness, and community-based efforts—to enhance the administration of justice and public safety.
- 3. Develop affordable and effective tools and technologies to enhance the administration of justice and public safety.

Dissemination

- 4. Disseminate relevant knowledge and information to practitioners and policymakers in an understandable, timely, and concise manner.
- 5. Act as an honest broker to identify the information, tools, and technologies that respond to the needs of stakeholders.

Agency management

- 6. Practice fairness and openness in the research and development process.
- 7. Ensure professionalism, excellence, accountability, cost-effectiveness, and integrity in the management and conduct of NIJ activities and programs.

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In addressing these strategic challenges, the Institute is involved in the following program areas: crime control and prevention, including policing; drugs and crime; justice systems and offender behavior, including corrections; violence and victimization; communications and information technologies; critical incident response; investigative and forensic sciences, including DNA; less-than-lethal technologies; officer protection; education and training technologies; testing and standards; technology assistance to law enforcement and corrections agencies; field testing of promising programs; and international crime control.

In addition to sponsoring research and development and technology assistance, NIJ evaluates programs, policies, and technologies. NIJ communicates its research and evaluation findings through conferences and print and electronic media.

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