

# **JUN. 08** NIJ Special **REPORT** Test Results for Digital Data Acquisition Tool: FTK Imager 2.5.3.14

**NIJ Website** 

#### U.S. Department of Justice Office of Justice Programs

810 Seventh Street N.W. Washington, DC 20531

Michael B. Mukasey Attorney General

Jeffrey L. Sedgwick Acting Assistant Attorney General

**David W. Hagy** Director, National Institute of Justice

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

# NIJ

David W. Hagy Director, National Institute of Justice

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March 3, 2008

### **Test Results for Digital Data Acquisition Tool:** FTK Imager 2.5.3.14



#### Contents

1	Result	s Summary	2		
2	2 Test Case Selection				
3	Result	s by Test Assertion	3		
	3.1 E	ight Sectors Omitted from Logical Acquisition of NTFS Partition	5		
	3.2 A	cquisition of HPA and DCO	6		
	3.3 L	ocation of Corrupted Data in Image File	6		
4	Testin	g Environment	6		
	4.1 T	est Computers	6		
	4.2 S	upport Software	6		
5	Test R	esults	6		
	5.1 T	est Results Report Key	7		
	5.2 T	est Details	7		
	5.2.1	DA-06-ATA28	7		
	5.2.2	DA-06-FLOPPY	9		
	5.2.3	DA-06-FW	. 10		
	5.2.4	DA-06-USB	. 12		
	5.2.5	DA-07-CF	. 14		
	5.2.6	DA-07-F12	. 16		
	5.2.7	DA-07-F16	. 18		
	5.2.8	DA-07-32	. 20		
	5.2.9	DA-07-32X	. 22		
	5.2.10	DA-07-NTFS	. 24		
	5.2.11	DA-07-THUMB	. 26		
	5.2.12	DA-08-ATA28	. 28		
	5.2.13	DA-08-ATA48	. 30		
	5.2.14	DA-08-DCO	. 32		
	5.2.15	DA-09	. 34		
	5.2.16	DA-10-DD	. 37		
	5.2.17	DA-10-SMART	. 39		
	5.2.18	DA-12	41		
	5.2.19	DA-24-DD	. 43		
	5.2.20	DA-25-DD	. 45		
	5.2.21	DA-26-E01-TO-SMART	. 46		
	5.2.22	DA-26-E01-TO-DD	. 47		
	5.2.23	DA-26-SMART-TO-E01	. 48		
	5.2.24	DA-26-SMART-TO-DD	. 49		
	5.2.25	DA-26-DD-TO-E01	. 50		
	5.2.26	DA-26-DD-TO-SMART	51		

#### 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 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.

Test results from other software packages and the CFTT tool methodology can be found on NIJ's computer forensics tool testing Web page.

# **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:	Access Data Website

# 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	1	Selected	Test	Cases
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|--|

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.		
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.		
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® Pentium<sup>™</sup> 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 SATA 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 downloaded.

# 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-	06-ATA28 FTK Imager 2.5.3.14
Case	DA-06 Acquire a physical device using access interface AI 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.
	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:	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:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >				
	78125000 total sectors (4000000000 bytes)				
	Model (0BB-75JHC0 ) serial # ( WD-WMAMC465	88)			
	N Start LBA Length Start C/H/S End C/H/S boo	ot Partition type			
	I P 000000063 020980827 0000/001/01 1023/254/63	UC Fat32X			
	2 X U2U98U89U U5/1432U5 1U23/UUU/UI 1U23/254/63	OF extended			
	3 5 000000003 000032007 1023/001/01 1023/254/63	01 Fall2 05 extended			
	5 S 00000063 002104452 1023/000/01 1023/254/63	06 Fat16			
	$6 \times 0.02136645 \ 0.04192965 \ 1.023/000/01 \ 1.023/254/63$	05 extended			
	7 S 00000063 004192902 1023/001/01 1023/254/63	16 other			
	8 x 006329610 008401995 1023/000/01 1023/254/63	05 extended			
	9 S 00000063 008401932 1023/001/01 1023/254/63	0B Fat32			
	10 x 014731605 010490445 1023/000/01 1023/254/63	05 extended			
	11 S 00000063 010490382 1023/001/01 1023/254/63	83 Linux			
	12 x 025222050 004209030 1023/000/01 1023/254/63	05 extended			
	13 S 00000063 004208967 1023/001/01 1023/254/63	82 Linux swap			
	14 x 029431080 027712125 1023/000/01 1023/254/63	05 extended			
	15 S 000000063 027712062 1023/001/01 1023/254/63	07 NTFS			
	16 S 00000000 00000000 0000/000/00 0000/000/00	00 empty entry			
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	00 empty entry			
	1.020980827 sectors $10742183424$ bytes	oo empey enery			
	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				
	MD5 checksum: hc39c3f7ee7a50e77b9ba1e65a5aeef7				
	SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f325065e5871				
	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	: verified			
	SHA1 checksum: 888e2e7f7ad237dc7a732281dd93f3250	65e5871 : verified			
	Settings: Size CD (640 MB)Write Block: 19 NoWrite				
Peculta:					
Rebuieb.	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			
7 m a ]	Trunceted werelts ashieved				
ANAIYSIS:	Expected results achieved				

#### 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 interf	ace 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 dig	ital source.	
	AM-08 All sectors acquired from the digital source	are acquired accurately.	
	AU-UI If the tool creates an image file, the data r	epresented by the image	
	1110 IS the same as the data acquired by the tool.	orgunated give then all	
	the individual files shall be no larger than the re	quested size	
	A0-22 If requested, the tool calculates block hashe	s 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 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.	
The set of a Name of			
Tester Name.	Eroddy		
Test Date:	$T_{\text{TP}} = 0 \text{ of } 30  14.06.09  2007$		
Drives:	rac(floppy) dst (pope) other (01-FII)		
Source	src hash (SHA1): $< e^{2863334ac7eaabc7c8a0d62eb0d3b3a}$	f29f2c40 >	
Setup:	src hash (MD5): $< 17f6a5925be2f38eedaf435ff8b6a6f4$	>	
T	Floppy disk		
Log	Created By AccessData® FTK® Imager 2.5.3.14 071018		
Highlights:	Sector Count: 2,880		
	Source data size: 1 MB		
	MD5 checksum: 17f6a5925be2f38eedaf435ff8b6a6f4		
	SHA1 checksum: e2863334ac7eaabc7c8a0d62eb0d3b3af29f2c40		
	Acquisition started: Tue Oct 30 14:11:19 2007		
	Acquisition finished: Tue Oct 30 14:12:45 2007		
	Verification started: Tue Oct 30 14:12:45 2007		
	Verification finished: Tue Oct 30 14:12:45 200/	· wowified	
	MD5 CHECKSum: 1/10a5925De2156eeda1455116D0a014 SH11 checksum: e2863334ac7eaabc7c8a0d62eb0d3b3af	· verified	
	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.	as expected	
	AU-U5 Multifile image created.	as expected	
	AU-22 TOOL CALCULATES MASHES by DLOCK.	option not available	
	AU-23 Logged information is correct.	as expected	
	A0-24 Source is unchanged by acquisition.	пот спескеа	
Analysis:	Expected results achieved		

#### 5.2.3 DA-06-FW

Test Case DA-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:	Wed Oct 31 10:35:32 2007	
Drives:	<pre>src(01-IDE) dst (none) other (01-FU)</pre>	
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >	
Setup:	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E >	
	78165360 total sectors (40020664320 bytes)	
	Model (0BB-00JHC0 ) serial # ( WD-WMAMC/41/1)	
	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 0C Fat32X	
	2 X 020980890 05/1/5335 1023/000/01 1023/254/63 0F extended	
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 5 0000000063 002104452 1023/001/01 1023/254/63 06 Fall6	
	0 X 002150045 004192905 1025/001/01 1025/254/05 05 extended	
	/ S 000000005 004192902 1023/001/01 1023/254/65 10 00Het	
	$3 \times 00000062 008401993 1023/000/01 1023/254/03 00 Extended$	
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended	
	11 S 00000063 010490382 1023/001/01 1023/254/63 83 Linux	
	12 x 02522050 004209030 1023/000/01 1023/254/63 05 extended	
	13 S 00000063 004208967 1023/001/01 1023/254/63 82 Linux swap	
	14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended	
	15 S 00000063 027744192 1023/001/01 1023/254/63 07 NTFS	
	16 S 00000000 00000000 0000/000/00 0000/000/00 00	
	17 P 00000000 00000000 0000/000/00 0000/000/00 00	
	18 P 000000000 00000000 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	Created By AccessData® FTK® Imager 2.5.3.14 071018	
Highlights:	Sector Count: 78,165,360	
	Source data size: 38166 MB	
	MD5 cnecksum: 145816/3894/531a6aUec8b8ec63848e	
	SHAL CHECKSUM: a48DD5665dbdC5/C22dD68e21/23da9aa8d182b9	
	Acquisition Started, Wed Oct 31 10.41.27 2007	
	Acquisition linished, wed Oct 31 11.18:26 2007	
	Verification finished: Wed Oct 31 11:10:20 2007	
	MD5 checksum: f458f673894753fa6a0ec8b8ec63848e : verified	

Test Case DA-	06-FW FTK Imager 2.5.3.14	
	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
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:	<pre>src(01-IDE) dst (none) other (01-FU)</pre>	
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >	
Setup:	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E >	
	78165360 total sectors (40020664320 bytes)	
	Model (OBB-00JHCO ) serial # ( WD-WMAMC/41/1)	
	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 0C Fat52X	
	2 X 020980890 05/1/5335 1023/000/01 1023/254/63 0F extended	
	3 5 0000000083 00003206/ 1023/001/01 1023/254/63 01 Fall2	
	4 X 000032130 002104515 1023/000/01 1023/254/63 05 Extended	
	5 5 000000000 002104432 1023/001/01 1023/254/05 00 Fatto	
	0 x 002150045 004192905 1025/000/01 1025/254/05 05 extended	
	8 v 006320610 00801905 1023/001/01 1023/254/63 10 Other	
	9 S 00000063 008401932 1023/001/01 1023/254/63 OB Fat 32	
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended	
	11 S 00000063 010490382 1023/001/01 1023/254/63 83 Linux	
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended	
	13 S 00000063 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 00000000 0000/000/00 0000/000/00 00	
	17 P 000000000 00000000 0000/000/00 0000/000 00	
	18 P 000000000 00000000 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	Created By AccessData® FTK® Imager 2.5.3.14 071018	
Highlights∶	Sector Count: 78,165,360	
	Source data size: 38166 MB	
	MUD5 CHECKSUM: I458I6/3894/53IabaUec8b8ec63848e	
	SHAL CHECKSUM: a4000000000000000000000000000000000000	
	Acquisition finished: The New 01 06:20:02 2007	
	Verification started: Thu Nov 01 00.30.02 2007	
	Verification finished: Thu Nov 01 06:44:11 2007	
	MD5 checksum: f458f673894753fa6a0ec8b8ec63848e : verified	

Test Case DA-	06-USB FTK Imager 2.5.3.14	
	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
	A0-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

#### 5.2.5 DA-07-CF

Test Case DA-	-07-CF FTK Imager 2.5.3.14	
Case Summary:	DA-07 Acquire a digital source of type DS to an ima	ge file.
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. 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 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 e digital source is unchanged by the acquisition proc	ss the digital source. creates an image file on ital source. are acquired accurately. epresented by the image equested size then all quested size. s for a specified block from the digital source. ion, the information is xecution environment, the ess.
Tester	m±mw	
Name:	Exaple	
Test Date:	Wed Oct 31 10:48:24 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 ( 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 B 3 P 1869881465 1936028192 0366/032/33 0357/032/43 4 P 2885681152 000055499 0372/097/50 0000/010/00 B 1 1141509631 sectors 584452931072 bytes 2 1936028240 sectors 991246458880 bytes 3 1936028192 sectors 28415488 bytes 4 000055499 sectors 28415488 bytes	3BB73C1590D80 > 06638A0B > > ot Partition type oot 72 other oot 65 other Boot 79 other oot 0D other
Highlights:	Sector Count: 503,808 Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf589edc16d78 SHA1 checksum: 5b8235178df99fa307430c088f8174660 Acquisition started: Tue Oct 30 17:50:36 2007 Acquisition finished: Tue Oct 30 17:51:39 2007 Verification started: Tue Oct 30 17:51:39 2007 Verification started: Tue Oct 30 17:51:41 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 SHA1 checksum: 5b8235178df99fa307430c088f8174660 Settings: CD (640MB) Write Block: 7 Digital Intelligence UltraBlock	6638a0b : verified 6638a0b : 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. AM-06 All visible sectors acquired.	Actual Result as expected as expected as expected as expected as expected
	AM-08 All sectors accurately acquired.	as expected
	AU-UI Image tile is complete and accurate.	as expected
	LAO-05 MULLILIE IMAGE Created.	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
	A0-24 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 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.	
	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.	
The set and Manual A		
Tester Name:	mrmw Received	
Test Host:	Frank	
Test Date:	Thu Nov I 07:05:48 2007	
Drives:	STC(UI-IDE) ASE (none) other (U6-FU)	
Source	src hash (SHAI): < A48BB5665D6DC5/C22DB68E2F/23DA9AA8DF82B9 >	
Setup:	STC nash (MDS): < F458F6/3894/53FAbAUEC888EEC63848E >	
	Action Contract Sectors (40020004320 bytes)	
	N Start IBA Length Start $C/U/S$ End $C/U/S$ bot Dartition type	
	1 b 00000063 02980827 0000/01/01 1023/254/63 OC Fat-32x	
	2 X 020980890 057175335 1023/000/01 1023/254/63 0F extended	
	3 S 00000063 00032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 00000063 002104452 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 0B 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 027744255 1023/000/01 1023/254/63 05 extended	
	15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS	
	16 S 000000000 00000000 0000/000/00 0000/00 00	
	17 P 000000000 00000000 0000/000 0000/000 000 000 000 00	
	1 00000007 method 1074010244 ber	
	2 00022067 sectors 10/42183424 bytes	
	5 000104452 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	
	01F12-md5 16418303 E20E3CFEA80BF6F2D2AA75E829CC8CD9	
	01F12-sha1 16418303 F8B72B65436DE3BD394ACFF71D405D0389C0E9B7	
Log	Created By AccessData® FTK® Imager 2.5.3.14 071018	
Highlights:	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	

Test Case DA-	07-F12 FTK Imager 2.5.3.14	
	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	: verified 9c0e9b7 : 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
	A0-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

#### 5.2.7 DA-07-F16

Test Case DA-07-F16 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.	
	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.	
Toston News:		
Tester Name:	mrmw Freeder	
Test HOST:	FIEddy Thy New 1 07:00:00 2007	
Test Date:	Thu NOV 1 0/:08:02 200/	
Drives:	src(43) dst (none) other (00-FU)	
Source	src hash (SHAI): < 888E2E/F/AD23/DC/A/32281DD93F325065558/I >	
secup.	SIC HASH (MDS) < BCSPCSFIELASUE//BSBAHEDSASAEEF/ >	
	$Model (OPP_75TUCO) = acrist + (VD_VD0000000000000000000000000000000000$	
	N Start IRA Length Start C/U/S End C/U/S boot Partition type	
	1 D 00000063 020980827 0000/001/01 1023/254/63 0C Fat32X	
	2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended	
	3 S 00000063 000032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 00000063 002104452 1023/001/01 1023/254/63 06 Fat16	
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended	
	7 S 00000063 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 05 extended	
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS	
	16 S 00000000 00000000 0000/000/00 0000/000/00 00	
	17 P 000000000 00000000 0000/000/00 0000/000 00	
	18 P 000000000 00000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes	
	5 002104452 sectors 10//4/9424 bytes	
	/ 004192902 Sectors 2140/05624 bytes	
	9 000401932 Sectors 4301709104 Dytes	
	12 004208067 sectors 2510401104 bytes	
	15 0072712062 sectors 1418857574 bytes	
	43F16-md5sum 1077479423 37E81FFB31C3CB38AA48B2237500908E	
Log	Created By AccessData® FTK® Imager 2.5.3.14 071018	
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	

Test Case DA-	07-F16 FTK Imager 2.5.3.14	
	MD5 checksum: 37e81ffb31c3cb38aa48b2237500908e SHA1 checksum: 443ccec9a22f726daf6ce384817151c83 Settings: size FAT (2000MB) Write Block: 31 Tableau WriteBlock	: verified b3ebc8b : 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
	A0-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	A0-24 Source is unchanged by acquisition.	not checked
Apolygia	Emosted regults achieved	
Analysis:	Expected results achieved	

#### 5.2.8 DA-07-32

Test Case DA-07-32 FTK Imager 2.5.3.14		
Case Summary:	DA-07 Acquire a digital source of type DS to an image file.	
Assertions:	<ul> <li>AM-01 The tool uses access interface SRC-AI to access the digital source.</li> <li>AM-02 The tool acquires digital source DS.</li> <li>AM-03 The tool executes in execution environment XE.</li> <li>AM-05 If image file creation is specified, the tool creates an image file on file system type FS.</li> <li>AM-06 All visible sectors are acquired from the digital source.</li> <li>AM-08 All sectors acquired from the digital source are acquired accurately.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.</li> <li>AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.</li> </ul>	
Tester Name:	mrmw	
Test Host:	Frank	
Test Date:	Thu Nov I $06:52:55\ 2007$	
Source	src ( $01-1DE$ ) dst ( $101E$ ) other ( $00-F0$ ) src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >	
Source Setup:	<pre>src hash (SHA1): &lt; A48BB5665D6DC57C22DB68E2F723DA9AABDF82B9 &gt; src hash (MD5): &lt; F458F673894753FA6ADEC8B8EC63848E &gt; 78165360 total sectors (40020664320 bytes) Model (0BB=00JHC0 ) serial # ( WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boo C Fat32X 2 X 020980890 057175335 1023/000/01 1023/254/63 0F extended 3 S 00000063 002104515 1023/001/01 1023/254/63 0F extended 4 x 000032130 002104515 1023/001/01 1023/254/63 0F extended 5 S 00000063 002104452 1023/001/01 1023/254/63 06 Fat16 6 x 002136645 004192965 1023/001/01 1023/254/63 05 extended 7 S 00000063 004192902 1023/001/01 1023/254/63 05 extended 7 S 00000063 004192902 1023/001/01 1023/254/63 05 extended 9 S 00000063 00492902 1023/001/01 1023/254/63 05 extended 11 S 00000063 01049045 1023/001/01 1023/254/63 05 extended 11 S 00000063 01492902 1023/001/01 1023/254/63 05 extended 13 S 00000063 01492902 1023/001/01 1023/254/63 05 extended 13 S 00000063 0149045 1023/001/01 1023/254/63 05 extended 13 S 00000063 012409030 1023/001/01 1023/254/63 05 extended 13 S 00000063 004209030 1023/001/01 1023/254/63 05 extended 13 S 00000063 002774455 1023/001/01 1023/254/63 05 extended 15 S 00000063 027744192 1023/001/01 1023/254/63 07 NTFS 16 S 00000006 002774455 1023/001/01 1023/254/63 07 NTFS 16 S 00000006 00000000 0000/000/00 0000/000/</pre>	
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 Sector Count: 8,401,932 Source data size: 4102 MB MD5 checksum: bff7dc64c54339da2a9d7972c076b514 SHA1 checksum: b861d9e999f39750b484ffb693ff69dec090c6b8 Acquisition started: Wed Oct 31 13:54:20 2007 Acquisition finished: Wed Oct 31 13:58:48 2007 Verification started: Wed Oct 31 13:58:48 2007	

Test Case DA-	Test Case DA-07-32 FTK Imager 2.5.3.14		
	Verification finished: Wed Oct 31 13:59:22 2007 MD5 checksum: bff7dc64c54339da2a9d7972c076b514 : verified SHA1 checksum: b861d9e999f39750b484ffb693ff69dec090c6b8 : verified 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	
	A0-24 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 Summary:	DA-07 Acquire a digital source of type DS to an image file.	
Assertions:	<ul> <li>AM-01 The tool uses access interface SRC-AI to access the digital source.</li> <li>AM-02 The tool acquires digital source DS.</li> <li>AM-03 The tool executes in execution environment XE.</li> <li>AM-05 If image file creation is specified, the tool creates an image file on file system type FS.</li> <li>AM-06 All visible sectors are acquired from the digital source.</li> <li>AM-08 All sectors acquired from the digital source are acquired accurately.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.</li> <li>AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.</li> </ul>	
Tester Name:	mrmw	
Test Host:	Freddy	
Test Date:	Thu Nov 1 06:44:59 2007	
Drives:	<pre>src(43) dst (none) other (01-FU) src hash (0011); &lt; 00000000000000000000000000000000000</pre>	
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >	
Log	78125000 total sectors (400000000 bytes)         Model (0BB-75JHC0 ) serial # ( WD-WMAMC46588)         N Start LBA Length Start C/H/S End C/H/S boot Partition type         1 P 00000063 020980827 0000/001/01 1023/254/63 0F extended         3 S 00000063 000132067 1023/001/01 1023/254/63 0F extended         5 S 00000063 002104515 1023/000/01 1023/254/63 05 extended         5 S 00000063 00210452 1023/001/01 1023/254/63 05 extended         6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended         7 S 00000063 004192902 1023/001/01 1023/254/63 05 extended         9 S 00000063 008401995 1023/000/01 1023/254/63 05 extended         9 S 00000063 008401992 1023/001/01 1023/254/63 05 extended         11 S 00000063 008401992 1023/000/01 1023/254/63 05 extended         11 S 00000063 004209030 1023/000/01 1023/254/63 05 extended         12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended         13 S 00000063 004208967 1023/001/01 1023/254/63 05 extended         13 S 00000063 027712052 1023/001/01 1023/254/63 05 extended         15 S 00000006 00000000 0000/000/00 0000/000/	
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018         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 finished: Thu Nov 01 07:03:2007         Verification finished: Thu Nov 01 07:03:2007	

Test Case DA-07-32X FTK Imager 2.5.3.14		
	MD5 checksum: 5980cb0fa68e9862c65765df50f00906 : verified SHA1 checksum: 379c1ac47af956fc8c80389c2a7427a7f8fb4e89 : verified Settings: size FAT(2000MB) Write Block: 31 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
	A0-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	A0-24 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:	<ul> <li>AM-01 The tool uses access interface SRC-AI to access the digital source.</li> <li>AM-02 The tool acquires digital source DS.</li> <li>AM-03 The tool executes in execution environment XE.</li> <li>AM-05 If image file creation is specified, the tool creates an image file on file system type FS.</li> <li>AM-06 All visible sectors are acquired from the digital source.</li> <li>AM-08 All sectors acquired from the digital source are acquired accurately.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.</li> <li>AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.</li> </ul>		
Tester Name:	mrmw		
Test Host:	Frank		
Test Date:	Thu Nov 1 07:16:50 2007		
Drives:	<pre>src(01-IDE) dst (none) other (06-FU)</pre>		
Source	<pre>src hash (SHA1): &lt; A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 &gt;</pre>		
Setup:	<pre>src hash (MD5): &lt; F458F673894753FA6A0EC2B8EC63848E &gt; 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 00000063 020980827 0000/001/01 1023/254/63 OC Fat32X 2 X 020980890 057175335 1023/000/01 1023/254/63 OF extended 3 s 00000063 002104515 1023/001/01 1023/254/63 OF Fat16 6 x 002136645 004192965 1023/001/01 1023/254/63 OF Fat16 6 x 002136645 004192965 1023/001/01 1023/254/63 OF extended 7 S 00000063 008401932 1023/001/01 1023/254/63 OF extended 9 s 00000063 008401932 1023/001/01 1023/254/63 OF extended 1 s 00000063 008401932 1023/001/01 1023/254/63 OF extended 1 s 00000063 004492962 1023/001/01 1023/254/63 OF extended 1 s 00000063 00440945 1023/000/01 1023/254/63 OF extended 13 s 00000063 004209030 1023/001/01 1023/254/63 OF extended 13 s 00000063 00774455 1023/001/01 1023/254/63 OF extended 14 x 025222050 004209030 1023/001/01 1023/254/63 OF extended 15 s 00000063 027744192 1023/001/01 1023/254/63 OF extended 15 s 00000063 027744192 1023/001/01 1023/254/63 OF extended 15 s 000000063 027744192 1023/001/01 1023/254/63 OF extended 15 s 000000063 027744192 1023/001/01 1023/254/63 OF extended 15 s 00000000 00000000 0000/000/00 0000/000/00 OF empty entry 17 P 00000000 00000000 0000/000/00 0000/000/00 OF empty entry 18 P 00000000 0000000 0000/000/00 0000/000/</pre>		
Highlights:	Sector Count: 27,744,184 Source data size: 13546 MB MD5 checksum: 28a3a4330007f75b8afa99d38ffcd257		
1	SHAI CHECKSUM: 0Da9400450//5Ia535/52320d3C2I0938I6923I7		

Test Case DA-	Test Case DA-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	: verified f6923f7 : 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.	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	
	A0-24 Source is unchanged by acquisition.	not checked	
Applygig:	Exported regults not achieved		
Analysis:	Expected results not achieved		

#### 5.2.11 DA-07-THUMB

Case         DA-07 Acquire a digital source of type D5 to an image file.           Assertions:         AM-02 The tool uses access interface SRC-AI to access the digital source. AM-03 The tool executes in execution environment XS. AM-03 The tool executes in execution environment XS. AM-05 The tool executes in precified, the tool creates an image file on file system type PS. AM-06 The the assert are acquired from the digital source. AM-06 ATH sectors acquired from the digital source accesses the all the individual files shall be not be data acquired by the tool. AO-05 If the tool creates an ulti-file image of a requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisicin for each block acquired for 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 asfe execution environment, the digital source is unchanged by the acquisition process.           Teact Bots:         Erectay           Tork hadd (SML) : X D6850 DF7AA3365490CT7838154700FTC53738A > Setup:           Source are hash (MDS) : C 268333242H28387856030783154700FTC53738A > Setup:           Notak (Lub2, OFlach hask) serial # () N Start L&A Length Start C/H/S End C/H/S boot Partition type 1 P 77813908 1141509301 337116/40 0337/032/45 Boot 72 other 2 P 168689521 03302840 0282/13/2337/032/03/23/45 Boot 72 other 2 P 168689521 0330528192 0286/03/23/3 0337/032/45 Boot 72 other 2 P 168689522 030505489 3372/097/50 0000/010/00 Boot 0D other 1 114160631 sectors 8445281072/32/3 037/032/45 Boot 72 other 2 P 168689522 030505489 3372/097/50 0000/010/00 Boot 0D other 1 114160631 sectors 8445280178/356490cf8381557D0616c53836a Acquisition started: Med Oct 31 13:05:31 2007 Verification fininshed Med Cdt 31 14:02:18 2007 Ver	Test Case DA-07-THUMB FTK Imager 2.5.3.14		
Assertions:         AM-01 The tool uses access interface SRC-AT to access the digital source. AM-02 The tool accurtes digital source DS. AM-03 The tool accurtes digital source on the col creates an image file on file system type FS. AM-06 All sectors acquired from the digital source are acquired accurately. A0-01 The tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. A0-03 The tool creates an unit-file image of a crequested 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. A0-02 If the tool creates a multi-file image of a crequested size then all the individual files shall be no larger than the requested size. A0-23 If the tool source is unchanged by the acquisition process. Tester Name: may           Tester Name:         may           Tester         State (OSS-100 Cocool SS) <th>Case Summary:</th> <th>DA-07 Acquire a digital source of type DS to an ima</th> <th>ge file.</th>	Case Summary:	DA-07 Acquire a digital source of type DS to an ima	ge file.
Tester Name:       mrmw         Test Host:       Freddy         Test Date:       Wed Oct 31 13:51:39 2007         Drives:       src(D5-thumb) dst (none) other (01-FU)         Source       src hash (SKA1): < C68206F74A336849DCCF83815B7B08PC53838A >         Setup:       src hash (SKA1): < C68208F74A336849DCCF83815B7B08PC53838A >         Source       src hash (SKA1): < C68208F74A336849DCCF83815B7B08PC53838A >         Setup:       src hash (SKA1): < C68208F74A336849DCCF83815B7B08PC53838A >         Source       src hash (SKA1): < C6820872 bytes)         Model (usb2.0Flash Disk) serial # ()       N         N       Start LBA Length       Start C/H/S End C/H/S boot Partition type         1       N Start LBA Length       Start C/H/S End C/H/S boot 72 other         2       P 16686981455 1936028192 0366/323(3 0357/032/43 Boot 79 other       4         4       P 2885681152 000055499 0372/097/50 0000/010/00 Boot 0D other       1         11141509631 sectors 584452931072 bytes       2       1336028192 sectors 28415488 bytes         Log       Created By AccessData@ FTK@ Imager 2.5.3.14 071018       Source data size: 247 MB         MD5 checksum:       c68350274a33649dccf83815b7b08fdc53a38a       Acquisition started: Wed Oct 31 14:02:18 2007         Verification started:       Wed Oct 31 14:02:18 2007       Verification started: Wed Oct	Summary: Assertions:	DA-07 Acquire a digital source of type DS to an image file. 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.	
Tester Name:       mrmw         Test Host:       Freddy         Test Date:       Wed Oct 31 13:51:39 2007         Drives:       src(D5-thumb) dst (none) other (01-FU)         Source       src hash (SKA1): < D68520EF74A336449DCCF83815b7B0BFPC53E38A >         Setup:       src hash (SKA1): < D68520EF74A336449DCCF83815b7B0BFPC53E38A >         Source       src hash (SKA1): < D68520EF74A336449DCCF83815b7B0BFPC53E38A >         Setup:       Start LBA Length       Start C/H/S End C/H/S boot Partition type         I       N Start LBA Length       Start C/H/S End C/H/S boot Partition type         I       N Start LBA Length       Start C/H/S End C/H/S boot Partition type         I       N Start LBA Length       Start C/H/S End C/H/S boot Partition type         I       N Start LBA Length       Start C/H/S End C/H/S boot Partition type         I       N 169881455 1936028192 0350/312/33 0357/032/45 Boot 72 other       4 P 2885681152 000055499 0372/097/50 0000/010/00 Boot 0D other         I       1181509631 sectors 99124645880 bytes       1 936028192 sectors 99124645880 bytes       3 1936028192 sectors 28415483 bytes         Log       Created By AccessData@ FTK@ Imager 2.5.3.14 071018       Source data size: 247 MB         Mb5 checksum:       c68520274a33649dccf83815b7b08fdc53e38a       Acquisition started: Wed Oct 31 14:02:18 2007         Verification starte		the digital source is unchanged by the acquisition	process.
Test Host:       Freddy         Test Date:       Wed Oct 31 13:51:39 2007         Drives:       src(D5-thumb) dst (none) other (01-FU)         Source       src hash (MD1): < D68520E7/4A336549DcCF83815B7B08FDC53E38A >         Setup:       src hash (MD5): < C6435936242B2B878596D876B19954 >         Model (usb2.0Flash Disk) serial # ()       N         N Start LBA Length       Start C/H/S End C/H/S boot Partition type         1 P 778135908 1141509631 0357/116/40 0357/032/45 Boot 72 other       3         2 P 166689522 1936028240 0288/11543 0367/104/50 Boot 65 other       3         3 P 1869881465 1936028192 0366/032/33 0357/032/45 Boot 79 other       4         4 P 2885681152 000055499 0372/097/50 0000/010/00 Boot 0D other       1         1 141509631 sectors 991246458880 bytes       2         Log       Created By AccespData@ FTK@ Imager 2.5.3.14 071018         Highlights:       Sector Count: 505,855         Source data size: 247 MB       MD5 checksum: c843593624b2b3b878596d8760b19954         SHA1 checksum: c843593624b2b3b878596d8760b19954 : verified         SHA1 checksum: d68520ef74a336e49dccf83815b7b08fdc53e38a         Acquisition finished: Wed Oct 31 14:02:18 2007         Verification finished: Wed Oct 31 14:02:18 2007         Verification finished: Wed Oct 31 14:02:18 2007         Verification finished: Wed Oct 31 14:02:18 2007	Tester Name:	mrmw	
Test Date:         Wed Oct 31 13:51:39 2007           Drives:         src(D5-thumb) dat (none) other (01-FU)           Source         src hash (SHA): < D68200E774A336E49DCCF83815E7B08FDC53E38A >           Setup:         src hash (MD5): < C843593624B2B3B878596D8760B19954 >           SoSost         src hash Length Start C/H/S End C/H/S boot Partition type           1         N Start LBA Length Start C/H/S End C/H/S boot 72 other           2         P 168689522 193602840 0287/116/40 0357/032/43 Boot 72 other           3         P 1869881455 1936028192 0366/03273 0357/032/43 Boot 79 other           4         P 2885681152 000055499 0372/037/50 0000/010/00 Boot 0D other           1         1141509631 sectors 99124645880 bytes           3         P 196028240 sectors 991246434304           9         P 2885681152 000055499 0372/037/50 0000/010/00 Boot 0D other           1         1141509631 sactors 991246434304           9         Sector Count: 505,856           Source data size: 247 MB         MD5 checksum: c84359362452b3878596d8760b19954           Stal checksum: c8520ef74a336e49dcof83815b7b08fc53e38a           Acquisition started: Wed Oct 31 13:56:31 2007           Verification finished: Wed Oct 31 14:02:18 2007           Verification finished: Wed Oct 31 14:02:18 2007           Verification finished: Wed Oct 31 14:02:21 2007           MD5 checksum: c84	Test Host:	Freddy	
Drives:         src(D5-thumb) dst (none) other (01-FU)           Source         sc hash (SHAL): < D68208P74A336849DCC78315B7B008PDC53E38A >           Setup:         sc hash (SHAL): < D68208P74A336849DCC78315B7B008PDC53E38A >           Source         src hash (SHAL): < D68208P0C78315B7B008PDC53E38A >           Model (usb2.0Plash Disk) serial # ()         N           N Start LBA Length Start C/H/S End C/H/S boot Partition type           1 P 778135908 1141509631 0357/116/40 0357/032/43 Boot 79 other           3 P 166881465 1936028192 0366/032/33 0357/032/43 Boot 79 other           4 P 2885681152 000055499 0372/097/50 0000/010/00 Boot 0D other           1 141509631 sectors 991246434304 bytes           2 1936028192 sectors 991246434304 bytes           Sector Count: 505,856           Source data size: 247 MB           MO5 checksum: c843593624b2b3b878596d8760b19954           SKA1 checksum: c843593624b2b3b878596d8760b19954           SHA1 checksum: c843593624b2b3b878596d8760b19954           SKA1 checksum: c843593624b2b3b878596d8760b19954           SKA1 checksum: c843593624b2b3b878596d8760b19954           SKA1 checksum: c843593624b2b3b878596d8760b19954	Test Date:	Wed Oct 31 13:51:39 2007	
Source       Setup:       Src hash (MD5): < C04359362423B8785964760B19954 >         Source       Source       Start LBA Length Start C/H/S End C/H/S boot Partition type         1 P 778135008 1141509631 0357/116/40 0357/032/45 Boot 72 other       2         2 P 166689522 1936028240 0288/115/43 0367/114/50 Boot 65 other       3         3 P 186981465 1936028192 0366/032/33 0357/032/43 Boot 79 other       4         4 P 2885681152 000055499 0372/097/50 0000/010/00 Boot 0D other       1         1 1141509631 sectors 584452931072 bytes       2         1 936028192 sectors 991246458880 bytes       3         1 936028192 sectors 99124643848 bytes       4         Cog       Created By AccessData@ FTK@ Imager 2.5.3.14 071018         Sector Count: 505,856       Source data size: 247 MB         MD5 checksum: c843593624b2b3b87859648760b19954         SHA1 checksum: c843593624b2b3b87859648760b19954         SHA1 checksum: c843593624b2b3b87859648760b19954         Verification finished: Wed Oct 31 14:02:18 2007         Verification finished: Wed Oct 31 14:02:207         Verification finished: Wed Oct 31 14:02:20 207         Verification finished: Wed Oct 31 14:02:21 2007         Mo15 checksum: c843593624b2b3b87859648760b19954 : verified         SHA1 checksum: c843593624b2b3b8785964876b19954 : verified         SHA1 checksum: c843593624b2b3b8785964876b19954 : verified <th>Drives:</th> <th><pre>src(D5-thumb) dst (none) other (01-FU) src hash (SUB1); &lt; D6852055740226540DCC582815D7D085</pre></th> <th></th>	Drives:	<pre>src(D5-thumb) dst (none) other (01-FU) src hash (SUB1); &lt; D6852055740226540DCC582815D7D085</pre>	
Results:Assertion & Expected ResultActual ResultAM-01 Source acquired using interface AI.as expectedAM-02 Source is type DS.as expectedAM-03 Execution environment is XE.as expectedAM-05 An image is created on file system type FS.as expectedAM-06 All visible sectors acquired.as expectedAM-08 All sectors accurately acquired.as expectedAO-01 Image file is complete and accurate.as expectedAO-05 Multifile image created.as expectedAO-22 Tool calculates hashes by block.option not availableAO-23 Logged information is correct.as expected	Source Setup: Log Highlights:	Src hash (SHA1):       > C68520EF74A336E49DCCF83815B7B08F         src hash (MD5):       < C843593624B2B3B878596D8760B19954         505856 total sectors (258998272 bytes)         Model (usb2.0Flash Disk) serial # ()         N       Start LBA Length         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 B         3       P 1869881465 1936028192 0366/032/33 0357/032/43 4         4       P 2885681152 00055499 0372/097/50 0000/010/00 B         1       1141509631 sectors 584452931072 bytes         2       1936028240 sectors 991246434304 bytes         4       000055499 sectors 28415488 bytes         Created By AccessData@ FTK® Imager 2.5.3.14 071018         Sector Count: 505,856         Source data size: 247 MB         MD5 checksum: c843593624b2b3b878596d8760b19954         SHA1 checksum: d68520ef74a336e49dccf83815b7b08fd         Acquisition finished: Wed Oct 31 13:56:31 2007         Verification started: Wed Oct 31 14:02:18 2007         Verification finished: Wed Oct 31 14:02:21 2007         MD5 checksum: c843593624b2b3b878596d8760b19954         SHA1 checksum: c843593624b2b3b878596d8760b19954         SHA1 checksum: c843593624b2b3b878596d8760b19954	DC53E38A > > ot Partition type oot 72 other oot 65 other Boot 79 other oot 0D other c53e38a : verified c53e38a : 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. 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.	Actual Result as expected as expected as expected as expected as expected as expected as expected as expected as expected as expected

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

#### 5.2.12 DA-08-ATA28

Test Case DA-08-ATA28 FTK Imager 2.5.3.14		
Case Summary:	DA-08 Acquire a physical drive with hidden sectors	to an image file.
Assertions:	<ul> <li>AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS.</li> <li>AM-03 The tool executes in execution environment XE.</li> <li>AM-05 If image file creation is specified, the tool creates an image file on file system type FS.</li> <li>AM-06 All visible sectors are acquired from the digital source.</li> <li>AM-07 All hidden sectors are acquired from the digital source.</li> <li>AM-08 All sectors acquired from the digital source accurately.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.</li> <li>AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.</li> </ul>	
Tester Name:	mrmw	
Test Host:	Frank	
Test Date:	Tue Oct 30 12:56:18 2007	
Source	Src(42) ast (none) other (06-F0) src hash (SHA1): < 5A75399023056F0FB905082B35F8FAA1	DB049229 >
Setup:	<pre>src hash (MD5): &lt; F4B9AAB24554EEEB2A962BDA554A9252 &gt; 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 00000000 00000000 0000/000/00 000 empty entry 3 P 00000000 00000000 0000/000/00 00 empty entry 4 P 00000000 00000000 0000/000/00 00 empty entry 1 070348572 sectors 36018468864 bytes HPA created BIOS, XBIOS and Direct disk geometry Reporter (BXDR) BXDR 128 /S7000000 /P /fbxdrlog.txt Setting Maximum Addressable Sector to 7000000 MAS now set to 7000000 Hashes with HPA in place md5:9BF3C3DEADE47056A1DDC073C5F6B2E2 shal:D76F909482B00767B62C295CADE202F92E61CD2E </pre>	
Highlights:	Sector Count: 70,000,001 Source data size: 34179 MB MD5 checksum: 9bf3c3deade47056alddc073c5f6b2e2 SHA1 checksum: d76f909482b00767b62c295cade202f92e6lcd2e 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: 9bf3c3deade47056alddc073c5f6b2e2 : verified SHA1 checksum: d76f909482b00767b62c295cade202f92e6lcd2e : verified SHA1 checksum: d76f909482b00767b62c295cade202f92e6lcd2e : verified Settings: CD (640MB)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

Test Case DA-08-ATA28 FTK Imager 2.5.3.14		
	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
	A0-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results not achieved	

#### 5.2.13 DA-08-ATA48

Test Case DA-08-ATA48 FTK Imager 2.5.3.14		
Case Summary:	DA-08 Acquire a physical drive with hidden sectors	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-07 All hidden 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:	Frank	
Test Date:	Tue Dec 18 13:08:38 2007	
Drives:	src(4B) dst (none) other (UI-FU)	
Setup: Log	<pre>src hash (MD5): &lt; B5641B5A594912B4D60518304B1DE698 &gt; 390721968 total sectors (200049647616 bytes) 24320/254/63 (max cyl/hd values) 24321/255/63 (number of cyl/hd) IDE disk: Model (WDC WD2000JB-00GVC0) serial # (WD-WCAL78252964) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 351646722 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 00000000 00000000 0000/000/00 0000/000/00 00</pre>	
Highlights:	Sector Count: 351,000,001 Source data size: 171386 MB MD5 checksum: 6bafefc000470c126434d933429c879b SHA1 checksum: 2d50dbd82cd3da90a6e5bf13b2b40808c40998a1 Acquisition started: Tue Dec 18 13:07:31 2007 Acquisition 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 MD5 checksum: 6bafefc000470c126434d933429c879b : verified SHA1 checksum: 2d50dbd82cd3da90a6e5bf13b2b40808c40998a1 : verified SHA1 checksum: 2d50dbd82cd3da90a6e5bf13b2b40808c40998a1 : verified Settings: CD Write Block: 4 Guidance Software FastBloc IDE	
Results:		
	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 Summary:	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 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-07 All hidden 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:	Frank	
Test Date:	Tue Oct 30 14:32:14 2007	
Drives:	<pre>src(92) dst (none) other (06-FU)</pre>	
Setup:	<pre>Src hash (MD5): &lt; 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-WN N Start LBA Length Start C/H/S End C/H/S boo 1 P 000000063 058605057 0000/001/01 1023/254/63 Boo 2 P 00000000 00000000 0000/000/00 0000/000/00 3 P 000000000 00000000 0000/000/00 0000/000/00 4 P 000000000 00000000 0000/000/00 0000/000/00 1 058605057 sectors 30005789184 bytes Hashes with DCO in place: md5:525963C6789423396FE1F3202A8CBD04 shal.txt:55A3CFE756B7B0034DCCE71F7D7A477D8681B781</pre>	MA8H2140350) ot Partition type ot 07 NTFS 00 empty entry 00 empty entry 00 empty entry
Highlights:	Sector Count: 52,770,010 Source data size: 25766 MB MD5 checksum: 525963c6789423396fe1f3202a8cbd04 SHAl checksum: 55a3cfe756b7b0034dcce71f7d7a477d8681b781 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 23:38:18 2007 Verification finished: Mon Oct 29 23:341:47 2007 MD5 checksum: 525963c6789423396fe1f3202a8cbd04 : verified SHAl checksum: 55a3cfe756b7b0034dcce71f7d7a477d8681b781 : verified Settings: size FAT(2000)Write Block: 2 NoWrite	
Results:		
	Assertion & Expected Result AM-01 Source acquired using interface AI.	Actual Result 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-US ALL Sectors accurately acquired.	as expected
	AU-UI IMAGE IIIE IS COMPIELE AND ACCURATE.	as expected

Test Case DA	A-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
	A0-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results not achieved	

### 5.2.15 DA-09

Test Case DA-09 FTK Imager 2.5.3.14		
Case Summary:	DA-09 Acquire a digital source that has at least one faulty data sector.	
Assertions:	<ul> <li>AM-01 The tool uses access interface SRC-AI to access the digital source.</li> <li>AM-02 The tool acquires digital source DS.</li> <li>AM-03 The tool executes in execution environment XE.</li> <li>AM-05 If image file creation is specified, the tool creates an image file on file system type FS.</li> <li>AM-06 All visible sectors are acquired from the digital source.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.</li> <li>AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.</li> </ul>	
	digital source is unchanged by the acquisition process.	
Tester	mrmw	
Name: Test Host:	Freddy	
Test Date:	Tue Oct 30 14:13:22 2007	
Drives:	<pre>src(ED-BAD-CPR1) dst (none) other (01-FU)</pre>	
Source Setup: Log	<pre>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 Destination setup</pre>	
Highlights:	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 16:34:10 2007 Verification finished: Tue Oct 30 16:34:30 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	ot be read:
	10069095	
	10069911	
	12023808	
	18656041	
	18656857	
	18660303	
	18661119	
	19746716 through 19746717	
	22233904	
	23098370	
	23383001	
	24102466 through 24102467	
	24104250	
	24106656	
	24107458 20050071 through 20050072	
	28959971 UILTOUGH 28959972	
	41828995	
	52654580	
	52655318	
	60522984	
	68643842 through 68643843	
	69973290	
	72714626	
	72715293	
	82148809 through 82148810	
	83810525	
	85313430	
	85314038 through $85314039$	
	86321211	
	86323780	
	87186066	
	87856313	
	87856922	
	97191260 through 97191261	
	100093150 through 100093151	
	103861021	
	109706975 through 109706976	
	11034/94/ 110350122 through 110350123	
	115664758	
	115835518	
	The contents of these sectors were replaced with ze	ros in the image.
	2 different run lengths observed in 44 runs	5
	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	
Regulta:		
itebureb.	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
	A0-22 Tool calculates hashes by block.	option not available
	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

IU-DD FIR IMagel 2.5.5.14
DA-10 Acquire a digital source to an image file in an alternate format.
<ul> <li>AM-01 The tool uses access interface SRC-AI to access the digital source.</li> <li>AM-02 The tool acquires digital source DS.</li> <li>AM-03 The tool executes in execution environment XE.</li> <li>AM-05 If image file creation is specified, the tool creates an image file on file system type FS.</li> <li>AM-06 All visible sectors are acquired from the digital source.</li> <li>AM-08 All sectors acquired from the digital source are acquired accurately.</li> <li>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.</li> <li>AO-02 If an image file format is specified, the tool creates an image file in the specified format.</li> <li>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.</li> <li>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.</li> <li>AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.</li> <li>AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.</li> </ul>
mrmw
Frank
Wed Oct 31 11:01:17 2007
<pre>src(C1-CF) dst (none) other (06-FU)</pre>
<pre>src hash (SHA256): &lt; C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D323BE73C1590D80 &gt; src hash (SHA1): &lt; 5B8235178DF99FA307430C088F81746606638A0B &gt; src hash (MD5): &lt; 776DF8B4D2589E21DEBCF589EDC16D78 &gt; 503808 total sectors (257949696 bytes) Model (</pre>
Created By AccessData® FTK® Imager 2.5.3.14 071018 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 started: Tue Oct 30 18:04:02 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Verification finished: 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: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Verification finished: Tue Oct 30 21:43:15 2007 Verification finished: Tue Oct 30 21:43:15 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified SHA1 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Verification started: Tue Oct 30 21:46:51 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified Verification finished: Tue Oct 30 21:46:51 2007 Verification finished: Tue Oct 30 21:46:51 2007

Test Case DA-	10-DD FTK Imager 2.5.3.14	
	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
	A0-24 Source is unchanged by acquisition.	not checked
		·
Analysis:	Expected results achieved	

# 5.2.17 DA-10-SMART

Test Case DA-10-SMART FTK Imager 2.5.3.14			
Case Summary:	DA-10 Acquire a digital source to an image file in	an alternate format.	
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. 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-02 If an image file format is specified, the too in the specified format. AO-05 If the tool creates a multi-file image of a r	ss the digital source. creates an image file on ital source. are acquired accurately. epresented by the image l creates an image file equested size then all	
	A0-22 If requested, the tool calculates block hashe size during an acquisition for each block acquired A0-23 If the tool logs any log significant informat accurately recorded in the log file. A0-24 If the tool executes in a forensically safe e digital source is unchanged by the acquisition proc	quested size. s for a specified block from the digital source. ion, the information is xecution environment, the ess.	
Tester Name:	mrmw		
Test Host:	Freddy		
Test Date:	Wed Oct 31 13:36:59 2007		
Drives:	<pre>src(cl-cf) dst (01-FU) other (none)</pre>		
Source	src hash (SHA256): <		
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D32 src hash (SHA1): < 5B8235178DF99FA307430C088F817466 src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC16D78 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 B 3 P 1869881465 1936028192 0366/032/33 0357/032/43 4 P 2885681152 000055499 0372/097/50 0000/010/00 B 1 1141509631 sectors 584452931072 bytes 2 1936028240 sectors 991246458880 bytes 3 1936028192 sectors 28415488 bytes 4 000055499 sectors 28415488 bytes	3BB73C1590D80 > 06638A0B > > ot Partition type oot 72 other oot 65 other Boot 79 other oot 0D other	
Highlights:	Sector Count: 503,808 Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf589edc16d78 SHA1 checksum: 5b8235178df99fa307430c088f8174660 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 SHA1 checksum: 5b8235178df99fa307430c088f8174660 Settings: size FAT(2000) Write Block: 7 Digital Intelligence UltraBlock	6638a0b : verified 6638a0b : 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	

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 imag 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 e digital source is unchanged by the acquisition proc	ss the digital source. creates an image file on re is insufficient space e file, the tool shall ion, the information is xecution environment, the ess.	
Tester	mrmw		
Name:	Purel		
Test Host:	Frank		
Test Date.	Wed Oct 31 14.58.42 2007		
Drives:	sic(ci-cr) ast (none) other (Ub-FU)		
Setup:	Src hash (SHA256). < C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D32 src hash (SHA1): < 5B8235178DF99FA307430C088F817466 src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC16D78 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 B 3 P 1869881465 1936028192 0366/032/33 0357/032/43 4 P 2885681152 000055499 0372/097/50 0000/010/00 B 1 1141509631 sectors 584452931072 bytes 2 1936028240 sectors 99124645880 bytes 3 1936028192 sectors 991246434304 bytes 4 000055499 sectors 28415488 bytes	3BB73C1590D80 > 06638AOB > > ot Partition type oot 72 other oot 65 other Boot 79 other oot 0D other	
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 Sector Count: 503,808 Source data size: 246 MB		
	Low Disk Space Warning	×	
	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 loc         Yes         No         Acquisition started:       Tue Oct 30 22:00:24 2007         Acquisition finished:       Tue Oct 30 22:03:24 2007	ation?	
Results:	Settings: size 1500 MB Write Block: 7 Digital Intelligence UltraBlock		
	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	
	A0-24 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 environment XE. AO-06 If the tool performs an image file integrity check on an image 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-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	
Tester	mrmw	
Name:		
Test Host:	Freddy	
Test Date:	Mon Nov 5 15:26:10 2007	
Drives:	src(C1-CF) dst (06-FU) other (06-FU)	
Source Setup:	<pre>src hash (SHA256): &lt; C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D323BB73C1590D80 &gt; src hash (SHA1): &lt; 5B8235178DF99FA307430C088F81746606638A0B &gt; src hash (MD5): &lt; 776DF8B4D2589E21DEBCF589EDC16D78 &gt; 503808 total sectors (257949696 bytes) Model (</pre>	
T		
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 started: Tue Oct 30 18:04:00 2007 Verification started: 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 started: Tue Oct 30 18:49:14 2007 Verification started: Tue Oct 30 18:49:16 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Verification started: Tue Oct 30 18:49:16 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : 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 21:46:52 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Verification finished: Tue Oct 30 21:46:53 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Verification finished: Mon Nov 05 15:25:32 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified SHA1 ch	
Results:	Assertion & Expected ResultActual ResultAM-03 Execution environment is XE.as expectedA0-06 Tool verifies image file unchanged.as expectedA0-23 Logged information is correct.as expected	

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

#### 5.2.20 DA-25-DD

Test Case DA	-25-DD FTK Imager 2.5.3.14	Ł	
Case	DA-25 Detect a corrupted image.		
Summary:			
Assertions:	AM-03 The tool executes in execution environment XE. AO-07 If the tool performs an image file integrity check on an image file that has been changed since the file was created, the tool shall notify the user that the image file has been changed. AO-08 If the tool performs an image file integrity check on an image file that has been changed since the file was created, the tool shall notify the user of the affected locations. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.		
Name:	mrmw		
Test Host:	Frank		
Test Date:	Wed Nov 7 12:26:20 2007		
Drives:	<pre>src(floppy1) dst (none)</pre>	other (01-FU)	
Source	src hash (SHA1): < e2863	334ac7eaabc7c8a0d62eb0d	3b3af29f2c40 >
secup.	Floppy disk	5725De2138eeua1435II8D68	1014 /
roa	Image file corrupted for	test run:	
Highlights:	Change byte 19400 of file	e da-25-dd.001 from 0x35	5 to 0x94
	B Drive /Image Verify Res	ults	
		CUT &	(100) 23
	D Exercit		
	E Denta ar	de per del port	-
	Name	da-25-dd,001	
	Sector count	2880	
	E MD5 Hash		and the second se
	Computed hash	e9f67ef4c7b08c2bec9b	bd9e7314d8c2
	Report Hash	17f6a5925be2f38eedal	435ff8b6a6f4
	Vorify rocult	Microstob	-
	Venity result	Plisindeen	
	E SHAT Dash		
	Computed hash	1bb93b93cac0c8a1bc2(	5204d25bba589a315796F
	Close		
Results:			
	Assertion & Expected Result     Actual Result       AM-03 Execution environment is XE.     as expected       A0-07 User notified if image file has changed.     as expected		
	A0-23 Logged informatio	n is correct	as expected
	no 25 hogged informatio		us expected
Analysis:	Expected results not ach	ieved	

#### 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.	ironment XE. e file from one format to a target ed data represented in the target ata in the source image file. nt information, the information is
Tester	mrmw	
Name:	The odd and	
Test Host:	Fready Map Nov 5 14:52:27 2007	
Drives:	$\frac{1}{2007}$	
Source	src hash (SHA256): <	
Source Setup:	<pre>src hash (SHA256): &lt; C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D323BB73C1590D80 &gt; src hash (SHA1): &lt; 5B8235178DF99FA307430C088F81746606638A0B &gt; src hash (MD5): &lt; 776DF8B4D2589E21DEBCF589EDC16D78 &gt; 503808 total sectors (257949696 bytes) Model (</pre>	
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 MD5 verification hash: 776df8b4d2589e21debcf589edc16d78 Sector Count: 503,808 Operating system: Windows 2003 Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf589edc16d78 SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b Acquisition started: Mon Nov 05 14:52:41 2007 Acquisition finished: Mon Nov 05 14:52:47 2007 Verification started: Mon Nov 05 14:52:47 2007 Verification started: Mon Nov 05 14:52:50 2007 Verification finished: Mon Nov 05 14:52:50 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Settings: size 1500 MB	
Results:		
	Assertion & Expected Result	Actual Result
	AM-U3 Execution environment is XE.	as expected
	AU-U9 1001 converts image file format.	as expected
	A0-23 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.	ironment XE. e file from one format to a target ed data represented in the target ata in the source image file. nt information, the information is
Tester	mrmw	
Name:	Freddy	
Test Date:	Mon Nov 5 14:49:59 2007	
Drives:	$\operatorname{src}(C1-CF)$ dst (06-FU) other (06-FU)	
Source	src hash (SHA256): <	
Setup:	<pre>Site hash (ShA256). &lt; C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D323BB73C1590D80 &gt; src hash (SHA1): &lt; 5B8235178DF99FA307430C088F81746606638A0B &gt; src hash (MD5): &lt; 776DF8B4D2589E21DEBCF589EDC16D78 &gt; 503808 total sectors (257949696 bytes) Model (</pre>	
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 MD5 verification hash: 776df8b4d2589e21debcf589edc16d78 Sector Count: 503,808 Operating system: Windows 2003 Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf589edc16d78 SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b Acquisition started: Mon Nov 05 14:49:18 2007 Acquisition finished: Mon Nov 05 14:49:23 2007 Verification started: Mon Nov 05 14:49:23 2007 Verification started: Mon Nov 05 14:49:23 2007 Verification finished: Mon Nov 05 14:49:25 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Settings: size 1500 MB	
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AU-09 1001 converts image iile format.	as expected
	AU 23 hogged information is correct.	as expected
Analysis:	Expected results achieved	

June 2008

#### 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 image image file in another format, the acquire image file is the same as the acquired da AO-23 If the tool logs any log significant accurately recorded in the log file.	ironment XE. e file from one format to a target ed data represented in the target ata in the source image file. nt information, the information is
Tester	mrmw	
Name:	Exceder	
Test Date:	Mon Nov 5 15:06:04 2007	
Drives:	src(C1-CF) dst (01-FU) other (01-FU)	
Source Setup:	<pre>src(C1-CF) dst (01-F0) other (01-F0) src hash (SHA256): &lt; C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D323BB73C1590D80 &gt; src hash (SHA1): &lt; 5B8235178DF99FA307430C088F81746606638A0B &gt; src hash (MD5): &lt; 776DF8B4D2589E21DEBCF589EDC16D78 &gt; 503808 total sectors (257949696 bytes) Model (</pre>	
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 MD5 verification hash: 776df8b4d2589e21debcf589edc16d78 Sector Count: 503,808 Operating system: Windows XP Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf589edc16d78 SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b Acquisition started: Mon Nov 05 15:05:24 2007 Acquisition finished: Mon Nov 05 15:05:30 2007 Verification started: Mon Nov 05 15:05:30 2007 Verification finished: Mon Nov 05 15:05:33 2007 Verification finished: Mon Nov 05 15:05:33 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Settings: size 1500 MB	
Results:		
	Assertion & Expected Result	Actual Result
	AD-09 Tool converts image file format	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

#### 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 image image file in another format, the acquire image file is the same as the acquired da AO-23 If the tool logs any log significant accurately recorded in the log file.	ironment XE. e file from one format to a target ed data represented in the target ata in the source image file. nt information, the information is
Tester	mrmw	
Name:	Exceder	
Test Date:	Mon Nov 5 15:02:13 2007	
Drives:	$\operatorname{src}(C1-CF)$ dst $(01-FII)$ other $(01-FII)$	
Source	src hash (SHA256): <	
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C1 src hash (SHA1): < 5B8235178DF99FA3074300 src hash (MD5): < 776DF8B4D2589E21DEBCF 503808 total sectors (257949696 bytes) Model ( CF) serial # () N Start LBA Length Start C/H/S End 1 P 778135908 1141509631 0357/116/40 03 2 P 168689522 1936028240 0288/115/43 03 3 P 1869881465 1936028192 0366/032/33 0 4 P 2885681152 000055499 0372/097/50 00 1 1141509631 sectors 584452931072 bytes 2 1936028240 sectors 99124645880 bytes 3 1936028192 sectors 28415488 bytes	3F795AD3D323BB73C1590D80 > 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 00/010/00 Boot 0D other
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 MD5 verification hash: 776df8b4d2589e21debcf589edc16d78 Sector Count: 503,808 Operating system: Windows XP Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf589edc16d78 SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b Acquisition started: Mon Nov 05 15:01:52 2007 Acquisition finished: Mon Nov 05 15:01:58 2007 Verification started: Mon Nov 05 15:01:58 2007 Verification started: Mon Nov 05 15:01:58 2007 Verification finished: Mon Nov 05 15:01:58 2007 Verification finished: Mon Nov 05 15:02:01 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Settings: size 1500 MB	
Results:		
	Assertion & Expected Result	Actual Result
	AM-U3 Execution environment is XE.	as expected
	AU-09 1001 converts image life format.	as expected
	AV 25 Bogged information is correct.	
Analysis:	Expected results achieved	

#### 5.2.25 DA-26-DD-TO-E01

Test Case DA	Test Case DA-26-DD-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 significat accurately recorded in the log file.	ironment XE. e file from one format to a target ed data represented in the target ata in the source image file. nt information, the information is	
Tester Name:	mrmw		
Test Host:	Freddy		
Test Date:	Mon Nov 5 14:40:28 2007		
Drives:	<pre>src(C1-CF) dst (06-FU) other (06-FU)</pre>		
Source Setup:	<pre>src hash (SHA256): &lt; C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D323BB73C1590D80 &gt; src hash (SHA1): &lt; 5B8235178DF99FA307430C088F81746606638A0B &gt; src hash (MD5): &lt; 776DF8B4D2589E21DEBCF589EDC16D78 &gt; 503808 total sectors (257949696 bytes) Model (</pre>		
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 Sector Count: 503,808 Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf589edc16d78 SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b Acquisition started: Mon Nov 05 14:42:19 2007 Acquisition finished: Mon Nov 05 14:42:24 2007 Verification started: Mon Nov 05 14:42:24 2007 Verification finished: Mon Nov 05 14:42:26 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Settings: size 1500 MB		
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 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 significat accurately recorded in the log file.	ironment XE. e file from one format to a target ed data represented in the target ata in the source image file. nt information, the information is
Tester Name:	mrmw	
Test Host:	Freddy	
Test Date:	Mon Nov 5 14:47:19 2007	
Drives:	<pre>src(C1-CF) dst (06-FU) other (06-FU)</pre>	
Source Setup:	<pre>src hash (SHA256): &lt; C7CF0218222DF80D5316511D6814266C7FA507C1 src hash (SHA1): &lt; 5B8235178DF99FA307430 src hash (MD5): &lt; 776DF8B4D2589E21DEBCF 503808 total sectors (257949696 bytes) Model (</pre>	3F795AD3D323BE73C1590D80 > 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 00/010/00 Boot 0D other
Log Highlights:	Created By AccessData® FTK® Imager 2.5.3.14 071018 Sector Count: 503,808 Source data size: 246 MB MD5 checksum: 776df8b4d2589e21debcf589edc16d78 SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b Acquisition started: Mon Nov 05 14:45:22 2007 Acquisition finished: Mon Nov 05 14:45:28 2007 Verification started: Mon Nov 05 14:45:28 2007 Verification finished: Mon Nov 05 14:45:30 2007 MD5 checksum: 776df8b4d2589e21debcf589edc16d78 : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified SHA1 checksum: 5b8235178df99fa307430c088f81746606638a0b : verified Settings: size 1500 MB	
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.

#### **Program Areas**

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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Reference Service P.O. Box 6000 Rockville, MD 20849–6000 800–851–3420