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Test Results for Digital Data Acquisition Tool: IXimager (Version 2.0, Feb-01 2006)

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April 2007



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Introduction

The Computer Forensics Tool Testing (CFTT) program is a joint project of the National Institute of Justice (NIJ), the research and development organization of the U.S. Department of Justice, and the National Institute of Standards and Technology's (NIST's) Office of Law Enforcement Standards (OLES) and Information Technology Laboratory (ITL). 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 and U.S. Secret Service. The objective of the CFTT program is to provide measurable assurance to practitioners, researchers, and other applicable users that the tools used in computer forensics investigations provide accurate results. Accomplishing this requires the development of specifications and test methods for computer forensics tools and subsequent testing of specific tools against those specifications.

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

This document reports the results from testing the **IXimager**—a noncommercial, restricted-use, law-enforcement-only, evidence production tool—against the *Digital Data Acquisition Tool Assertions and Test Plan Version 1.0*, available at the CFTT Web site (http://www.cftt.nist.gov/DA-ATP-pc-01.pdf).

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

Test Results for Digital Data Acquisition Tool

Tool Tested: ILook IXimager Version: 2.0, Feb-01 2006

Run Environment: Custom (Linux version 2.4.32-erik)

Supplier: U.S. Internal Revenue Service, Criminal Investigation Division,

Electronic Crimes Program

Address: IRS CI Electronic Crimes—Springfield Facility

6359 Walker Lane, Suite 210

Alexandria, VA 22310

703-822-8411

http://www.ilook-forensics.org/homepage.html

ecilookproject@ilook-forensics.org

1 Results Summary

The tested tool acquired all visible and hidden sectors completely and accurately from the test media. In the case of a hard drive with 22 defective sectors, the sectors of the image corresponding to the defective sectors were replaced with forensically benign content.

2 Test Case Selection

Not all test cases or test assertions are appropriate for all tools. Each test case is assigned to a selection criterion based on optional tool features needed for the test case. If a given tool implements a given feature listed below then test cases assigned to the associated criterion are executed. In addition, the availability of a test support tool to generate device I/O errors is required for execution of some test cases.

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 for the IXimager. 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. In normal operation an imaging tool is used in conjunction with a write block device to protect the source drive, however a blocker was not used during the tests so that assertion AO–24 could be checked.

Test cases DA-06, DA-07, DA-08, and DA-12 were selected because they are basic to all tools.

The other test cases are either selected or not selected based on tool features and capabilities.

The tool does not create cylinder-aligned clones: omit DA-03, DA-15, DA-21, and DA-23.

The tool creates image files in more than one format: include DA-10.

The tool converts image files from one format to another: include DA–26.

The tool can create a clone during acquisition: include DA-01, DA-02, and DA-04.

The tool implements destination device switching: include DA–13.

A device I/O error generator is available (but only for source drives): include DA–09; omit DA–05, DA–11, and DA–18.

The tool does not fill excess sectors on a clone device: omit DA-19, DA-20, DA-21, DA-22, and DA-23.

The tool can create a clone from an image file: include DA-14 and DA-17, but omit DA-22 (no fill feature).

The tool does not create a clone from a subset of an image file: omit DA-16.

The tool can detect a corrupted (or changed) image file: include DA-24 and DA-25.

Some test cases have variant forms to accomadate parameters within test assertions AM–01, AM–02, AM–03, AM–05, and AO–13. For an acquisition the tool must execute in an execution environment, XE. In addition, a digital source, DS, defines the type of object acquired. The access interface for the source, SRC–AI, must be specified. Additional test parameters include the file system type, FS, for creation of the image file and the access interface used to write to a clone, DST–AI. Variations were also created for AO–02 image file format and AO–09, image format conversion.

The IXimager only executes in a custom environment: Linux version 2.4.32-erik.

The following source interfaces (SRC-AI) were tested: ATA28, ATA48, SATA28, SATA48, SCSI, USB, and FireWire.

The following digital sources were tested: partitions (FAT12, FAT16, FAT32, FAT32X, EXT2, hidden FAT, NTFS, and Linux Swap), RAID–1, RAID–5, flash card, thumb drive, floppy, and ZIP.

The image files were created, FS, on FAT32X partitions.

The following interfaces (DST-AI) were used for clone creation: ATA28, ATA48, SATA28, SATA48, SCSI, USB, and FireWire.

Tested image formats include the ILook default (compressed), ILook encrypted, and raw.

Format conversion variations include: default to unformatted (as would be produced by the Unix command **dd**), default to ILook encrypted, default to ILook raw, ILook encrypted to default, and ILook raw to default.

3 Results by Test Assertion

Table 1 summarizes the test results by assertion. The column labeled **Assertion** gives the text of each assertion. The column labeled **Tests** gives the number of test cases that use the given assertion. The column labeled **Anomalies** gives the number of observed anomalies for the given assertion. Note that no anomalies were observed for any assertion.

Table 1 Results Summary by Assertion

Assertion	Tests	Anomalies
AM-01 The tool uses access interface SRC-AI to access	46	0
the digital source.		
AM-02 The tool acquires digital source, DS.	46	0
AM-03 The tool executes in execution environment, XE.	76	0
AM-04 If clone creation is specified, the tool creates	19	0
a clone of the digital source.		
AM-05 If image file creation is specified, the tool	27	0
creates an image file on file system type, FS.		
AM-06 All visible sectors are acquired from the	45	0
digital source.		
AM-07 All hidden sectors are acquired from the digital	3	0
source.		
AM-08 All sectors acquired from the digital source are	45	0
acquired accurately.		
AM-09 If unresolved errors occur while reading from	1	0
the selected digital source, the tool notifies the		
user of the error type and location within the digital		
source.		_
AM-10 If unresolved errors occur while reading from	1	0
the selected digital source, the tool uses a benign		
fill in the destination object in place of the		
inaccessible data.	26	
AO-01 If the tool creates an image file, the data	26	0
represented by the image file is the same as the data		
acquired by the tool.	2	0
AO-02 If an image file format is specified, the tool	2	U
creates an image file in the specified format. AO-03 If there is an error while writing the image	0	0
file, the tool notifies the user.	U	0
AO-04 If the tool is creating an image file and there	2	0
is insufficient space on the image destination device	2	
to contain the image file, the tool shall notify the		
user.		
AO-05 If the tool creates a multifile image of a	26	0
requested size then all the individual files shall be	20	
no larger than the requested size.		
AO-06 If the tool performs an image file integrity	1	0
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-07 If the tool performs an image file integrity	1	0
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	1	0
check on an image file that has been changed since the		
file was created, the tool shall notify the user of		

Assertion	Tests	Anomalies
the affected locations.		
AO-09 If the tool converts a source image file from	5	0
one format to a 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-10 If there is insufficient space to contain all	1	0
files of a multifile 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	19	0
acquisition of a digital source.		
AO-12 If requested, a clone is created from an image	23	0
file.		
AO-13 A clone is created using access interface DST-AI	42	0
to write to the clone device.		
AO-14 If an unaligned clone is created, each sector	41	0
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	0	0
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	0	0
specified, all the subset is cloned.		
AO-17 If requested, any excess sectors on a clone	40	0
destination device are not modified.		
AO-18 If requested, a benign fill is written to excess	0	0
sectors of a clone.		
AO-19 If there is insufficient space to create a	2	0
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	2	0
notifies the user.		
AO-21 If there is a write error during clone creation,	0	0
the tool notifies the user.		
AO-22 If requested, the tool calculates block hashes	0	0
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	76	0
information, the information is accurately recorded in		
the log file.		
AO-24 If the tool executes in a forensically safe	46	0
execution environment, the digital source is unchanged		
by the acquisition process.		

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

Eight test computers were used.

Freddy, Frank, Joe, and Max 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[®] 4 CPU

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

1.44MB floppy drive

Two slots for removable IDE hard disk drives

Two slots for removable SATA hard disk drives

Two slots for removable SCSI hard disk drives

JohnSteed has the following configuration:

FIC IC-VL67 (865G; S478; 800MHz) Intel® Desktop Motherboard

Phoenix-Award BIOS version v6.00PG

Intel[®] Pentium[®] 4 CPU

Plextor DVDR PX-716A, ATAPI CD/DVD-ROM drive

WDC WD800JB-00JJC0, 80 GB ATA disk drive

1.44MB floppy drive

Three IEEE 1394 ports

Four USB ports

Nick has the following configuration:

Dell Optiplex GX260 Series

Intel[®] Pentium[®] 4 CPU 2GHz

Phoenix ROM BIOS PLUS version 1.10 revision A06

2048 MB DDR SDRAM

80 GB IC35L090AUV207-0 Hitachi IDE hard drive

NEC DVD+RW ND-1100A Drive

Lite-On LTN486S 48x CD-ROM drive

ZIP 250 Drive

Floppy Drive

6 USB ports

Firestorm 6D906 IEEE 1394a PCI Adapter

Paladin has the following configuration:

Intel® D845WNL Motherboard

BIOS: HV84510A.86A.0022.P05
Intel® Pentium® IV 2.0Ghz
512672k Memory
Adaptec 29160 SCSI Adapter card
Tekram DC–390U3W SCSI Adapter card
Plextor CR–RW PX–W124TS Rev: 1.06
LG 52X CDROM
floppy drive
Three slots for removable IDE hard disk drives
Two slots for removable SCSI hard disk drive

SamSpade has the following configuration:

Intel® D865PERL Motherboard
Intel® Pentium® 4 CPU 2.4GHz
BE7X 1.08.00.048 BIOS
FE7X 1.05.00.063 Firmware
2048 MB RAM
ABIT R9200SE-T APG graphics adapter
3ware ATA RAID Contoller: Escalade 7506–4LP
Lite-On DVDRW SHOW–1234 Drive
Floppy Drive
4 USB ports
4 slots for IDE RAID drives

4.2 Support Software

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

5 Test Results

The main item of interest for interpreting the test results is determining the conformance of the device with the test assertions. Conformance with each assertion tested by a given test case is evaluated by examining **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 non-conformance 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-01-ATA28

Test Case DA-	01-ATA28 ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-01 Acquire a physical device using access interface AI to an unaligned
	clone.
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-04 If clone creation is specified, the tool creates a clone of the
	digital source.
	AM-06 All visible sectors are acquired from the digital source.
	AM-08 All sectors acquired from the digital source are acquired accurately.
	AO-11 If requested, a clone is created during an acquisition of a digital
	source. 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-17 If requested, any excess sectors on a clone destination device are not modified.
	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:	brl
Test Host:	Max
Test Date:	Tue Mar 21 16:58:41 2006
Drives:	src(41) dst (42) other (none)
Source	src hash: < 15CAA1A307271160D8372668BF8A03FC45A51CC9 >
Setup:	78125000 total sectors (40000000000 bytes)

Test Case DA-01-ATA28 ILook IXimager Version 2.0, Feb 01 2006		
	65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400BB-75JHC0) serial # N Start LBA Length Start C/H/S End C/H/S 1 P 000000063 078107967 0000/001/01 1023/254/ 2 P 000000000 000000000 0000/000/00 0000/000/ 3 P 000000000 000000000 0000/000/00 0000/000/ 4 P 000000000 000000000 0000/000/00 0000/000/ 1 078107967 sectors 39991279104 bytes	boot Partition type 63 Boot 07 NTFS 00 00 empty entry 00 00 empty entry
Log Highlights:		
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired.	as expected as expected as expected as expected as expected
	AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI.	as expected as expected as expected
	AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct. AO-24 Source is unchanged by acquisition.	as expected as expected option not available as expected as expected
Analysis:	Expected results achieved	as expected

5.2.2 DA-01-ATA48

Test Case DA-01-ATA48 ILook IXimager Version 2.0, Feb 01 2006		
Description:	DA-01 Acquire a physical device using access interface AI to an unaligned	
	clone.	
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.	

Test Case DA-	01-ATA48 ILook IXimager Version 2.0, Feb 01 2000	5
	AM-04 If clone creation is specified, the tool	
	digital source. AM-06 All visible sectors are acquired from th	e digital source
	AM-08 All sectors acquired from the digital so	5
AO-11 If requested, a clone is created during an acquisition of a d		
	source.	DOM 3.7
	AO-13 A clone is created using access interfac clone device.	e DS'I'-Al to write to the
	AO-14 If an unaligned clone is created, each s	ector written to the clone is
	accurately written to the same disk address on occupied on the digital source.	the clone that the sector
	AO-17 If requested, any excess sectors on a cl	one destination device are
	not modified.	
	AO-22 If requested, the tool calculates block size during an acquisition for each block acqu	
	AO-23 If the tool logs any log significant inf	
	accurately recorded in the log file.	
	A0-24 If the tool executes in a forensically s	
	the digital source is unchanged by the acquisi	cion process.
Tester Name:	brl	
Test Host:	Freddy	
Test Date:	Wed Mar 22 15:46:50 2006	
Drives: Source	<pre>src(4F) dst (4D) other (none) src hash: < 51FE53FD6BF7B7B69A875EDBD9AC01D411</pre>	94C78C >
Setup:	488397168 total sectors (250059350016 bytes)	510,00 /
_	30400/254/63 (max cyl/hd values)	
	30401/255/63 (number of cyl/hd)	(ND NMARIIOCOLECA)
	IDE disk: Model (WDC WD2500JB-00EVA0) serial # N Start LBA Length Start C/H/S End C/H/S	(WD-WMAEH2681554) boot Partition type
	1 P 000000063 268413957 0000/001/01 1023/254/	
	2 P 000000000 000000000 0000/000/00 0000/000/	00 00 empty entry
	3 P 000000000 000000000 0000/000/00 0000/000/	
	4 P 000000000 000000000 0000/000/00 0000/000/ 1 268413957 sectors 137427945984 bytes	00 00 empty entry
	1 20012000 December 10142104 Dyces	
Log		
Highlights:	Comparision of original to clone	
	Sectors compared: 488397168 Sectors match: 488397168	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range 0 source read errors, 0 destination read error	q
	o source read errors, o describaction read error	~
	IXImager Log file	
	hda: 488397168 sectors (250059 MB) w/8192KiB Cache, CHS=30401/255/63,	
	UDMA(33) hdb: 488397168 sectors (250059 MB) w/8192KiB C	ache. CHS=30401/255/63
	UDMA(33)	
	Initializing	
	Opened input device '/dev/hdb'	
	Opened output device '/dev/hda' Beginning Clone operation for 250059350016 byt	es
	Beginning Clone operation	
	Beginning Clone operation	
	Clone Complete	
	Clone was completed successfully.	
	Read : 250.1 GB (250059350016 bytes)
	Written : 250.1 GB (250059350016 bytes	
Total Processed: 250.1 GB (250059350016 bytes))
	Clone Speed : 14.71 MB/sec	
	Clone Speed : 14.71 MB/sec Elapsed Time : 4h 43m 19s	
	Clone Speed : 14.71 MB/sec Elapsed Time : 4h 43m 19s Bad Sectors : 0 Clearing computer memory	
	Clone Speed : 14.71 MB/sec Elapsed Time : 4h 43m 19s Bad Sectors : 0	
Results:	Clone Speed : 14.71 MB/sec Elapsed Time : 4h 43m 19s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: 51FE53FD6BF7B7B69A875EDBD9AC	01D41194C78C
Results:	Clone Speed : 14.71 MB/sec Elapsed Time : 4h 43m 19s Bad Sectors : 0 Clearing computer memory	

Test Case DA-	01-ATA48 ILook IXimager Version 2.0, Feb 01 200	6
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	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.	as expected
Analysis:	Expected results achieved	·

5.2.3 DA-01-FIREWIRE

Test Case DA-	01-FIREWIRE ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-01 Acquire a physical device using access interface AI to an unaligned	
	clone.	
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-04 If clone creation is specified, the tool creates a clone of the	
	digital source.	
	AM-06 All visible sectors are acquired from the digital source.	
	AM-08 All sectors acquired from the digital source are acquired accurately.	
	AO-11 If requested, a clone is created during an acquisition of a digital	
	source.	
	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-17 If requested, any excess sectors on a clone destination device are	
	not modified.	
	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:	brl	
Test Host:	Joe	
Test Date:	Fri Mar 24 16:09:33 2006	
Drives:	src(24-FU2) dst (61-FU2) other (none)	
Source	src hash: < A78EDB5E90298D0CDF199B4B62119F81208A252A >	
Setup:	39070080 total sectors (20003880960 bytes)	
Scoup.	19076/063/32 (max cyl/hd values)	
	19077/064/32 (number of cyl/hd)	
	Model (ATCS04-0) serial # (CSH206D9DSEL)	
	TOUCH (TITOSOT V) BOTTAT (CSTEED BY BEELE)	
Loq		
Highlights:	Comparision of original to clone	
3 3	Sectors compared: 39070080	
	Sectors match: 39070080	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range	
	Source (39070080) has 78234912 fewer sectors than destination (117304992)	
	Zero fill: 0	
1	Src Byte fill (24): 0	
	Dst Byte fill (61): 78234912	
	Other fill: 0	
	Other no fill: 0	
	Zero fill range:	
	Src fill range:	
	Dst fill range: 39070080-117304991	

Test Case DA-	01-FIREWIRE ILook IXimager Version 2.0, Feb 01	2006	
	Other fill range:		
	Other not filled range:		
	0 source read errors, 0 destination read errors		
IXImager Log file SCSI device sdb: 117304992 512-byte hdwr sectors (60060 MB) SCSI device sdc: 39070080 512-byte hdwr sectors (20004 MB) SCSI device sdb: 117304992 512-byte hdwr sectors (60060 MB) Initializing Opened input device '/dev/sdc' Opened output device '/dev/sdb' Beginning Clone operation for 20003880960 bytes Beginning Clone operation Beginning Clone operation Clone Complete			
	Clone was completed successfully. Read : 20.00 GB (20003880960 bytes) Written : 20.00 GB (20003880960 bytes) Total Processed: 20.00 GB (20003880960 bytes) Clone Speed : 6.428 MB/sec Elapsed Time : 0h 51m 52s Bad Sectors : 0		
	Clearing computer memory		
Results:	Source SHA1 Hash: A78EDB5E90298D0CDF199B4B62119F81208A252A		
	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-04 A clone is created.	as expected	
	AM-06 All visible sectors acquired.	as expected	
	AM-08 All sectors accurately acquired.	as expected	
	AO-11 A clone is created during acquisition.	as expected	
	AO-13 Clone created using interface AI.	as expected	
	AO-14 An unaligned clone is created.	as expected	
	AO-17 Excess sectors are unchanged.	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.	as expected	
		1 2 2 2 2 2	
Analysis:	Expected results achieved		
	rexpected results acriteved		

5.2.4 DA-01-SATA28

Test Case DA-	01-SATA28 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-01 Acquire a physical device using access interface AI to an unaligned	
	clone.	
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-04 If clone creation is specified, the tool creates a clone of the	
	digital source.	
	AM-06 All visible sectors are acquired from the digital source.	
	AM-08 All sectors acquired from the digital source are acquired accurately.	
	AO-11 If requested, a clone is created during an acquisition of a digital	
	source.	
	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-17 If requested, any excess sectors on a clone destination device are	
	not modified.	
	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	

Test Case DA-	01-SATA28 ILook IXimager Version 2.0, Feb 01 200	06
	accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically s	
	the digital source is unchanged by the acquisi	tion process.
Tester Name:	brl	
Test Host:	Joe	
Test Date:	Wed Mar 22 10:41:20 2006	
Drives:	src(07) dst (06) other (none)	
Source	<pre>src hash: < 655E9BDDB36A3F9C5C4CC8BF32B8C5B41A</pre>	F9F52E>
Setup:	156301488 total sectors (80026361856 bytes)	
	Model (WDC WD800JD-32HK) serial # (WD-WMAJ9151	
	N Start LBA Length Start C/H/S End C/H/S	
	1 P 000000063 156280257 0000/001/01 1023/254/ 2 P 000000000 000000000 0000/000/00 0000/000/	
	3 P 00000000 00000000 0000/000/00 0000/000/	
	4 P 000000000 000000000 0000/000/00 0000/000/	
	1 156280257 sectors 80015491584 bytes	F 12 1 2
Log		
Highlights:	Comparision of original to clone	
	Sectors compared: 156301488	
	Sectors match: 156301488 Sectors differ: 0	
	Bytes differ: 0	
	Diffs range	
	0 source read errors, 0 destination read error	S
	v bourde read errors, v deserration read errors	
	IXImager Log file	
	atal: dev 0 ATA-6, max UDMA/133, 156301488 sectors: LBA	
	ata2: dev 0 ATA-6, max UDMA/133, 156301488 sectors: LBA	
	SCSI device sdb: 156301488 512-byte hdwr sectors (80026 MB)	
	SCSI device sdc: 156301488 512-byte hdwr sectors (80026 MB)	
	SCSI device sdc: 156301488 512-byte hdwr sectors (80026 MB) Initializing	
	Opened input device '/dev/sdb'	
	Opened output device '/dev/sdc'	
	Beginning Clone operation for 80026361856 bytes	
	Beginning Clone operation	
	Beginning Clone operation	
	Clone Complete	
	Clone was completed successfully.	
	Pood . 00 02 CP (00026261056 bytog)	
	Read : 80.03 GB (80026361856 bytes) Written : 80.03 GB (80026361856 bytes)	
	Total Processed: 80.03 GB (80026361856 bytes)	
	Clone Speed : 48.01 MB/sec	
	Elapsed Time : 0h 27m 47s	
	Bad Sectors : 0	
	Clearing computer memory	
	Source SHA1 Hash: 655E9BDDB36A3F9C5C4CC8BF32B8	C5B41AF9F52E
Results:		
Medured.	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-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	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.	as expected

5.2.5 DA-01-SATA48

	01-SATA48 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-01 Acquire a physical device using access interface AI to an unaligned	
	clone.	
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-04 If clone creation is specified, the tool creates a clone of the	
	digital source.	
	AM-06 All visible sectors are acquired from the digital source.	
	AM-08 All sectors acquired from the digital source are acquired accurately.	
	AO-11 If requested, a clone is created during an acquisition of a digital	
	source.	
	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-17 If requested, any excess sectors on a clone destination device are	
	not modified.	
	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.	
	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.	
m		
Tester Name:	brl	
Test Host:	Joe	
Test Date:	Wed Mar 22 16:46:04 2006	
Drives:	src(OD) dst (OE) other (none)	
Source	src hash: < BAAD80E8781E55F2E3EF528CA73BD41D228C1377 >	
Setup:	488397168 total sectors (250059350016 bytes)	
	30400/254/63 (max cyl/hd values)	
	30401/255/63 (number of cyl/hd)	
	Model (WDC WD2500JD-22F) serial # (WD-WMAEH2678216)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 488375937 0000/001/01 1023/254/63 Boot 07 NTFS	
	2 P 000000000 000000000 0000/000/00 0000/000/00 00	
	3 P 000000000 000000000 0000/000/00 0000/000/00 00	
	4 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 488375937 sectors 250048479744 bytes	
Log		
Highlights:	Comparision of original to clone	
	Sectors compared: 488397168	
	Sectors compared: 488397168 Sectors match: 488397168	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB)	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB)	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB)	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) Initializing	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) Initializing Opened input device '/dev/sdc'	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) Initializing Opened input device '/dev/sdc' Opened output device '/dev/sdb'	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) Initializing Opened input device '/dev/sdc' Opened output device '/dev/sdb' Beginning Clone operation for 250059350016 bytes	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) Initializing Opened input device '/dev/sdc' Opened output device '/dev/sdb' Beginning Clone operation	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) Initializing Opened input device '/dev/sdc' Opened output device '/dev/sdb' Beginning Clone operation Beginning Clone operation Beginning Clone operation	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file ata1: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) Initializing Opened input device '/dev/sdc' Opened output device '/dev/sdb' Beginning Clone operation for 250059350016 bytes Beginning Clone operation Beginning Clone operation Clone Complete	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) Initializing Opened input device '/dev/sdc' Opened output device '/dev/sdb' Beginning Clone operation Beginning Clone operation Beginning Clone operation	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) Initializing Opened input device '/dev/sdc' Opened output device '/dev/sdb' Beginning Clone operation for 250059350016 bytes Beginning Clone operation Clone Complete Clone was completed successfully.	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) Initializing Opened input device '/dev/sdc' Opened output device '/dev/sdb' Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 250.1 GB (250059350016 bytes)	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) Initializing Opened input device '/dev/sdc' Opened output device '/dev/sdb' Beginning Clone operation for 250059350016 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 250.1 GB (250059350016 bytes) Written : 250.1 GB (250059350016 bytes)	
	Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 ata2: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48 SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdc: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB) Initializing Opened input device '/dev/sdc' Opened output device '/dev/sdb' Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 250.1 GB (250059350016 bytes)	

Test Case DA-	01-SATA48 ILook IXimager Version 2.0, Feb 01 20	06
	Elapsed Time : 1h 32m 6s	
	Bad Sectors : 0	
	Clearing computer memory	
	Source SHA1 Hash: BAAD80E8781E55F2E3EF528CA73B	BD41D228C1377
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-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	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.	as expected
Analysis:	Expected results achieved	

5.2.6 DA-01-SCSI

Test Case DA-	01-SCSI ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-01 Acquire a physical device using access interface AI to an unaligned clone.	
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-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. 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-17 If requested, any excess sectors on a clone destination device are not modified. 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:	brl	
Test Host:	Freddy	
Test Date:	Wed Mar 22 10:59:15 2006	
Drives:	src(2A) dst (2C) other (none)	
Source	src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 >	
Setup:	17783249 total sectors (9105023488 bytes) Model (QM39100TD-SCA) serial # (PCB=20-116711-06 HDAQM39100TD-SCA) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 017751762 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00	
Log Highlights:	Comparision of original to clone Sectors compared: 17783249	

Test Case DA-	01-SCSI ILook IXimager Version 2.0, Feb 01 2006	
	Sectors match: 17783249 Sectors differ: 0	
	Bytes differ: 0	
	Diffs range	
	0 source read errors, 0 destination read errors	g
	bource read errors, o describeron read error	
	IXImager Log file	(2.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
	SCSI device sdb: 17783249 512-byte hdwr sector	
	SCSI device sdc: 17783249 512-byte hdwr sector	
	SCSI device sdb: 17783249 512-byte hdwr sector	5 (9105 MB)
	Initializing Opened input device '/dev/sdc'	
	Opened output device '/dev/sdb'	
	Beginning Clone operation for 9105023488 bytes	
	Beginning Clone operation Beginning Clone operation	
	Beginning Clone operation	
	Clone Complete	
	Clone was completed successfully.	
	crone was comprehed successfully.	
	Read : 9.105 GB (9105023488 bytes)	
	Written : 9.105 GB (9105023488 bytes)	
	Total Processed: 9.105 GB (9105023488 bytes)	
	Clone Speed : 11.66 MB/sec	
	Elapsed Time : Oh 13m 1s	
	Bad Sectors : 0	
	Clearing computer memory	
	Source SHA1 Hash: F5F9F2903DCAB895F36E270FB22A	722E27918125
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-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	<u> </u>
	AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	as expected
		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.	as expected
Analysis:	Expected results achieved	

5.2.7 DA-01-USB

Test Case DA-	01-USB ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-01 Acquire a physical device using access interface AI to an unaligned	
	clone.	
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-04 If clone creation is specified, the tool creates a clone of the	
	digital source.	
	AM-06 All visible sectors are acquired from the digital source.	
	AM-08 All sectors acquired from the digital source are acquired accurately.	
	AO-11 If requested, a clone is created during an acquisition of a digital	
	source.	
	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-17 If requested, any excess sectors on a clone destination device are	
	not modified.	
	AO-22 If requested, the tool calculates block hashes for a specified block	

Test Case DA-	01-USB ILook IXimager Version 2.0, Feb 01 2006	
	size during an acquisition for each block acqu	
	AO-23 If the tool logs any log significant info accurately recorded in the log file.	ormation, the information is
	AO-24 If the tool executes in a forensically sa	
	the digital source is unchanged by the acquisi-	tion process.
Tester Name:	brl	
Test Host:	JohnSteed	
Test Date: Drives:	Sun Mar 26 14:50:02 2006 src(63-FU2) dst (61-FU2) other (none)	
Source	src hash: < F7069EDCBEAC863C88DECED82159F22DA9	6BE99B >
Setup:	117304992 total sectors (60060155904 bytes)	
	Model (SP0612N) serial # () N Start LBA Length Start C/H/S End C/H/S	boot Partition type
	1 P 000000063 004192902 0000/001/01 0260/254/	63 Boot 06 Fat16
	2 X 004192965 113097600 0261/000/01 1023/254/0 3 S 000000063 113097537 0261/001/01 1023/254/0	
	3 S 000000063 113097537 0261/001/01 1023/254/0 4 S 000000000 000000000 0000/000/00 0000/000/0 5 P 000000000 000000000 0000/000/00 0000/000/0	00 00 empty entry
	6 P 000000000 000000000 0000/000/00 0000/000/ 1 004192902 sectors 2146765824 bytes	00 00 empty entry
	3 113097537 sectors 57905938944 bytes	
T	-	
Log Highlights:	Comparision of original to clone	
	Sectors compared: 117304992	
	Sectors match: 117304992 Sectors differ: 0	
	Bytes differ: 0	
	Diffs range	
	O source read errors, O destination read errors	5
	IXImager Log file	
	hda: 156301488 sectors (80026 MB) w/8192KiB Cau	che, CHS=9729/255/63,
	SCSI device sda: 117304992 512-byte hdwr sector	
	SCSI device sdb: 117304992 512-byte hdwr sector	
	SCSI device sdb: 117304992 512-byte hdwr sector Initializing	rs (60060 MB)
	Opened input device '/dev/sda'	
	Opened output device '/dev/sdb'	
		2
	Beginning Clone operation for 60060155904 byte: Beginning Clone operation	5
	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation	5
	Beginning Clone operation for 60060155904 byte Beginning Clone operation Beginning Clone operation Clone Complete	5
	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully.	3
	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes)	5
	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully.	5
	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec	5
	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes)	5
	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s	5
	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0	
	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0 Clearing computer memory	
Results:	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: F7069EDCBEAC863C88DECED82159	F22DA96BE99B
Results:	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0 Clearing computer memory	
Results:	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: F7069EDCBEAC863C88DECED82159: Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS.	F22DA96BE99B Actual Result as expected as expected as expected
Results:	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: F7069EDCBEAC863C88DECED82159: Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	F22DA96BE99B Actual Result as expected as expected as expected as expected
Results:	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: F7069EDCBEAC863C88DECED82159: Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS.	F22DA96BE99B Actual Result as expected as expected as expected
Results:	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: F7069EDCBEAC863C88DECED821593 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	F22DA96BE99B Actual Result as expected
Results:	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: F7069EDCBEAC863C88DECED821590 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition.	Actual Result as expected
Results:	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: F7069EDCBEAC863C88DECED82159 AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI.	Actual Result as expected
Results:	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: F7069EDCBEAC863C88DECED82159 AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	Actual Result as expected
Results:	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: F7069EDCBEAC863C88DECED82159 AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block.	Actual Result as expected
Results:	Beginning Clone operation for 60060155904 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 60.06 GB (60060155904 bytes) Written : 60.06 GB (60060155904 bytes) Total Processed: 60.06 GB (60060155904 bytes) Clone Speed : 13.88 MB/sec Elapsed Time : 1h 12m 6s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: F7069EDCBEAC863C88DECED82159 AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	Actual Result as expected

Test Case DA-	01-USB ILook IXimager Version 2.0, Feb 01 2006
Analysis:	Expected results achieved

5.2.8 DA-02-CF

Test Case DA-	02-CF ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-02 Acquire a digital source of type DS to an unaligned clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.
TIBBET CIOID.	AM-02 The tool acquires digital source DS.
	AM-02 The tool acquires digital source bs. AM-03 The tool executes in execution environment XE.
	AM-04 If clone creation is specified, the tool creates a clone of the
	digital source.
	AM-06 All visible sectors are acquired from the digital source.
	AM-08 All sectors acquired from the digital source are acquired accurately.
	AO-11 If requested, a clone is created during an acquisition of a digital
	source.
	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.
	A0-17 If requested, any excess sectors on a clone destination device are
	not modified.
	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:	brl
Test Host:	JohnSteed
Test Date:	Wed May 10 15:41:28 2006
Drives:	src(C1-CF) dst (C2-CF) other (none)
Source	src hash: < 5B8235178DF99FA307430C088F81746606638A0B >
Setup:	503808 total sectors (257949696 bytes) Removable media, no partition table.
	Removable media, no partition table.
Log	
Highlights:	Comparision of original to clone
	Sectors compared: 503808
	Sectors match: 503808
	Sectors differ: 0
	Bytes differ: 0
	Diffs range
	0 source read errors, 0 destination read errors
	TVImager Log file
	IXImager Log file
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63,
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100)
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB)
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100)
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB)
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB)
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda'
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb'
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes Beginning Clone operation
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes Beginning Clone operation Beginning Clone operation
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes Beginning Clone operation Beginning Clone operation Clone Complete
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes Beginning Clone operation Beginning Clone operation
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully.
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 257.9 MB (257949696 bytes)
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 257.9 MB (257949696 bytes) Written : 257.9 MB (257949696 bytes)
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 257.9 MB (257949696 bytes) Written : 257.9 MB (257949696 bytes) Total Processed: 257.9 MB (257949696 bytes)
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 257.9 MB (257949696 bytes) Written : 257.9 MB (257949696 bytes) Total Processed: 257.9 MB (257949696 bytes) Clone Speed : 5.862 MB/sec
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 257.9 MB (257949696 bytes) Written : 257.9 MB (257949696 bytes) Total Processed: 257.9 MB (257949696 bytes)
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 257.9 MB (257949696 bytes) Written : 257.9 MB (257949696 bytes) Total Processed: 257.9 MB (257949696 bytes) Clone Speed : 5.862 MB/sec
	hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 503808 512-byte hdwr sectors (258 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sdb' Beginning Clone operation for 257949696 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 257.9 MB (257949696 bytes) Written : 257.9 MB (257949696 bytes) Total Processed: 257.9 MB (257949696 bytes) Clone Speed : 5.862 MB/sec Elapsed Time : 0h 0m 44s

	Source SHA1 Hash: 5B8235178DF99FA307430C088F81746606638A0B	
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-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	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.	as expected
Analysis:	Expected results achieved	

5.2.9 DA-02-F12

Test Case DA-	02-F12 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-02 Acquire a digital source of type DS to an unaligned clone.	
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-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. 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-17 If requested, any excess sectors on a clone destination device are not modified. 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:	brl	
Test Host:	Joe	
Test Host:	Wed Apr 19 14:12:39 2006	
Drives:	src(43) dst (A7) other (none)	
Source	src hash: < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	78125000 total sectors (4000000000 bytes)	
Secup.	Model (OBB-75JHCO	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63	
	2 X 020980890 057143205 1023/000/01 1023/254/63	
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16	
	6 x 002136645 004192965 1023/000/01 1023/254/63	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other 8 x 006329610 008401995 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	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other 8 x 006329610 008401995 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	
	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	
	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	

Test Case DA-	02-F12 ILook IXimager Version 2.0, Feb 01 2006	
	15 S 000000063 027712062 1023/001/01 1023/254/ 16 S 000000000 000000000 0000/000/00 0000/000/ 17 P 000000000 000000000 0000/000/00 0000/000/ 18 P 000000000 000000000 0000/000/00 0000/000/ 1 020980827 sectors 10742183424 bytes 3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes 15 027712062 sectors 14188575744 bytes	00 00 empty entry 00 00 empty entry
Log Highlights:	IXImager Log file SCSI device sdb: 39102336 512-byte hdwr sector SCSI device sdc: 78125000 512-byte hdwr sector SCSI device sdb: 39102336 512-byte hdwr sector Initializing Opened input device '/dev/sdc5' Opened output device '/dev/sdb' Beginning Clone operation for 16418304 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 16.42 MB (16418304 bytes) Written : 16.42 MB (16418304 bytes) Total Processed: 16.42 MB (16418304 bytes) Clone Speed : 8.209 MB/sec Elapsed Time : 0h 0m 2s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 6853B517F50BF3CCADED3DB5FEAE086 Dst SHA1 Hash: 6853B517F50BF3CCADED3DB5FEAE086 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93	C18C62FCA0 - C18C62FCA0 -
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-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	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.	as expected
	110 21 bource is unenanged by acquisicion.	as expected
Analysis:	Expected results achieved	

5.2.10 DA-02-F16

Test Case DA-	02-F16 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-02 Acquire a digital source of type DS to an unaligned clone.	
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-04 If clone creation is specified, the tool creates a clone of the	
	digital source.	
	AM-06 All visible sectors are acquired from the digital source.	

Test Case DA-	02-F16 ILook IXimager Version 2.0, Feb 01 2006	
TEST CASE DA-	AM-08 All sectors acquired from the digital source are acquired accurately.	
	AO-11 If requested, a clone is created during an acquisition of a digital source.	
	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-17 If requested, any excess sectors on a clone destination device are not modified. 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:	brl	
Test Host:	Joe	
Test Date:	Thu Apr 20 09:24:03 2006	
Drives:	src(43) dst (A7) other (none)	
Source	src hash: < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	78125000 total sectors (4000000000 bytes) Model (0BB-75JHC0) serial # (WD-WMAMC46588)	
	Model (OBB-75JHCO) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63	
	2 X 020980890 057143205 1023/000/01 1023/254/63	
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16	
	6 x 002136645 004192965 1023/000/01 1023/254/63	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other	
	8 x 006329610 008401995 1023/000/01 1023/254/63 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 010490345 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 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	18 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes	
	5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes	
	13 004208967 sectors 2154991104 bytes	
	15 027712062 sectors 14188575744 bytes	
Log Highlights:	IXImager Log file	
-	SCSI device sdb: 78125000 512-byte hdwr sectors (40000 MB)	
	SCSI device sdc: 39102336 512-byte hdwr sectors (20020 MB)	
	SCSI device sdc: 39102336 512-byte hdwr sectors (20020 MB)	
	Initializing	
	Opened input device '/dev/sdb6'	
	Opened output device '/dev/sdc'	
	Beginning Clone operation for 1077479424 bytes	
	Beginning Clone operation Beginning Clone operation	
	Clone Complete	
	Clone was completed successfully.	
	Read : 1.077 GB (1077479424 bytes)	
	Written : 1.077 GB (1077479424 bytes)	
	Total Processed: 1.077 GB (1077479424 bytes)	
	Clone Speed : 10.67 MB/sec	
	Elapsed Time : 0h 1m 41s	
	Bad Sectors : 0	
	Clearing computer memory	

Test Case DA-	02-F16 ILook IXimager Version 2.0, Feb 01 2006	
	Hashes of src and dst partitions Src SHA1 Hash: 443CCEC9A22F726DAF6CE384817151CE Dst SHA1 Hash: 443CCEC9A22F726DAF6CE384817151CE Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93	83B3EBC8B -
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-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	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.	as expected
Analysis:	Expected results achieved	

5.2.11 DA-02-F32

Test Case DA-	02-F32 ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-02 Acquire a digital source of type DS to an unaligned clone.
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-04 If clone creation is specified, the tool creates a clone of the
	digital source.
	AM-06 All visible sectors are acquired from the digital source.
	AM-08 All sectors acquired from the digital source are acquired accurately.
	AO-11 If requested, a clone is created during an acquisition of a digital
	source.
	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-17 If requested, any excess sectors on a clone destination device are not modified.
	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.
	3
Tester Name:	brl
Test Host:	Joe
Test Date:	Thu Apr 20 11:23:27 2006
Drives:	src(43) dst (A7) other (none)
Source	src hash: < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
Setup:	78125000 total sectors (40000000000 bytes)
	Model (0BB-75JHC0) serial # (WD-WMAMC46588)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020980827 0000/001/01 1023/254/63
	2 X 020980890 057143205 1023/000/01 1023/254/63
	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 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16
	6 x 002136645 004192965 1023/000/01 1023/254/63
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other
	8 x 006329610 008401995 1023/000/01 1023/254/63
	9 S 000000063 008401932 1023/001/01 1023/254/63

Test Case DA-	02-F32 ILook IXimager Version 2.0, Feb 01 2006	
Log	10 x 014731605 010490445 1023/000/01 1023/254/ 11 S 000000063 010490382 1023/001/01 1023/254/ 12 x 025222050 004209030 1023/000/01 1023/254/ 13 S 000000063 004208967 1023/001/01 1023/254/ 14 x 029431080 027712125 1023/000/01 1023/254/ 15 S 000000063 027712062 1023/001/01 1023/254/ 16 S 00000000 00000000 0000/000/00 0000/000/ 17 P 000000000 000000000 0000/000/00 0000/000/ 18 P 00000000 000000000 0000/000/00 0000/000/ 18 P 00000000 000000000 0000/000/00 0000/000/ 1 020980827 sectors 10742183424 bytes 3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes 15 027712062 sectors 14188575744 bytes	63 83 Linux 63 05 extended 63 82 Linux swap 63 05 extended 63 07 NTFS 00 00 empty entry 00 00 empty entry
Highlights:	IXImager Log file SCSI device sdb: 78125000 512-byte hdwr sectors (40000 MB) SCSI device sdc: 39102336 512-byte hdwr sectors (20020 MB) SCSI device sdc: 39102336 512-byte hdwr sectors (20020 MB) Initializing Opened input device '/dev/sdb8' Opened output device '/dev/sdc' Beginning Clone operation for 4301789184 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 4.302 GB (4301789184 bytes) Written : 4.302 GB (4301789184 bytes) Total Processed: 4.302 GB (4301789184 bytes) Clone Speed : 10.70 MB/sec Elapsed Time : 0h 6m 42s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 72462489BCF79A98B59B6A8CD938FEB46FA2A781 - Dst SHA1 Hash: 72462489BCF79A98B59B6A8CD938FEB46FA2A781 -	
Results:		
Mesures:	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-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct. AO-24 Source is unchanged by acquisition.	as expected as expected
	Lie 21 bource is unchanged by acquisition.	as expected
Analusi s	Exposted results ashioned	
Analysis:	Expected results achieved	

5.2.12 DA-02-F32X

Test Case DA-	02-F32X ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-02 Acquire a digital source of type DS to an unaligned clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.

Mark Care Di	OO BOOK TI Selv TViscoson Vannian O O Belv 01 2006
Test Case DA-	02-F32X ILook IXimager Version 2.0, Feb 01 2006 AM-02 The tool acquires digital source DS.
	AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE.
	AM-04 If clone creation is specified, the tool creates a clone of the
	digital source.
	AM-06 All visible sectors are acquired from the digital source.
	AM-08 All sectors acquired from the digital source are acquired accurately.
	AO-11 If requested, a clone is created during an acquisition of a digital
	source.
	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-17 If requested, any excess sectors on a clone destination device are
	not modified.
	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:	brl
Test Host:	Max
Test Date:	Wed Apr 19 09:01:16 2006
Drives:	src(44) dst (23-FU2) other (none)
Source	src hash: < E196D36E7B322C0EF83923112AD1800581742B6E >
Setup:	78165360 total sectors (40020664320 bytes)
	65534/015/63 (max cyl/hd values)
	65535/016/63 (number of cyl/hd)
	IDE disk: Model (WDC WD400JB-00FMA0) serial # (WD-WMAJC1011319)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020980827 0000/001/01 1023/254/63
	2 X 020980890 057175335 1023/000/01 1023/254/63
	3 S 000000063 000032067 1023/001/01 1023/254/63
	4 x 000032130 002104515 1023/000/01 1023/254/63
	5 S 000000063 002104452 1023/001/01 1023/254/63
	6 x 002136645 004192965 1023/000/01 1023/254/63
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other
	8 x 006329610 008401995 1023/000/01 1023/254/63
	9 S 000000063 008401932 1023/001/01 1023/254/63
	10 x 014731605 010490445 1023/000/01 1023/254/63
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux 12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap
	14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended
	15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS
	16 S 000000000 000000000 0000/000/00 0000/000/00 00
	17 P 000000000 000000000 0000/000/00 0000/000/00 00
	18 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 020980827 sectors 10742183424 bytes
	3 000032067 sectors 16418304 bytes
	5 002104452 sectors 1077479424 bytes
	7 004192902 sectors 2146765824 bytes
	9 008401932 sectors 4301789184 bytes
	11 010490382 sectors 5371075584 bytes
	13 004208967 sectors 2154991104 bytes
	15 027744192 sectors 14205026304 bytes
	•
Log	
Highlights:	IXImager Log file
	SCSI device sdb: 39070080 512-byte hdwr sectors (20004 MB)
	SCSI device sdc: 78165360 512-byte hdwr sectors (40021 MB)
	SCSI device sdb: 39070080 512-byte hdwr sectors (20004 MB)
	Initializing
	Opened input device '/dev/sdc1'
	Opened output device '/dev/sdb'
	Beginning Clone operation for 10742183424 bytes
	Beginning Clone operation
	Beginning Clone operation
	Clone Complete
	Clone was completed successfully.

Test Case DA-	02-F32X ILook IXimager Version 2.0, Feb 01 2006	
	Read : 10.74 GB (10742183424 bytes)	
	Written : 10.74 GB (10742183424 bytes)	
	Total Processed: 10.74 GB (10742183424 bytes)	
	Clone Speed : 7.987 MB/sec	
	Clone Speed : 7.987 MB/sec Elapsed Time : 0h 22m 25s	
	Bad Sectors : 0	
	Clearing computer memory	
	Hashes of src and dst partitions	
	Src SHA1 Hash: D190A47B60A17FE6912CA26BE237E92	3AD592FAE -
	Dst SHA1 Hash: D190A47B60A17FE6912CA26BE237E92	3AD592FAE -
	Source SHA1 Hash: E196D36E7B322C0EF83923112AD1	800581742B6E
Results:		
Results:	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	
	AM-01 Source acquired using interface AI. AM-02 Source is type DS.	as expected as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE.	as expected as expected
	AM-04 A clone is created.	*
	AM-04 A crone is created. AM-06 All visible sectors acquired.	as expected
	<u> </u>	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	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.	as expected
Analysis:	Expected results achieved	

5.2.13 **DA-02-HIDDEN**

Test Case DA-	02-HIDDEN ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-02 Acquire a digital source of type DS to an unaligned clone.	
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-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. 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-17 If requested, any excess sectors on a clone destination device are not modified. 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:	brl	
Test Host:	Joe	
Test Date:	Fri Apr 21 09:35:20 2006	
Drives:	src(43) dst (2F) other (none)	
Source Setup:	<pre>src hash: < 888E2E7F7AD237DC7A732281DD93F325065E5871 > 78125000 total sectors (40000000000 bytes) Model (0BB-75JHC0) serial # (</pre>	
	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 057143205 1023/000/01 1023/254/63 0F extended	

Test Case DA-	02-HIDDEN ILook IXimager Version 2.0, Feb 01 20	06	
	3 S 000000063 000032067 1023/001/01 1023/254/		
	4 x 000032130 002104515 1023/000/01 1023/254/		
	5 S 000000063 002104452 1023/001/01 1023/254/		
	6 x 002136645 004192965 1023/000/01 1023/254/		
	7 S 000000063 004192902 1023/001/01 1023/254/ 8 x 006329610 008401995 1023/000/01 1023/254/		
	9 S 000000063 008401932 1023/001/01 1023/254/		
	10 x 014731605 010490445 1023/000/01 1023/254/		
	11 S 000000063 010490382 1023/001/01 1023/254/		
	12 x 025222050 004209030 1023/000/01 1023/254/		
	13 S 000000063 004208967 1023/001/01 1023/254/		
	14 x 029431080 027712125 1023/000/01 1023/254/		
	15 S 000000063 027712062 1023/001/01 1023/254/		
	16 S 000000000 000000000 0000/000/00 0000/000/		
	17 P 000000000 000000000 0000/000/00 0000/000/ 18 P 000000000 000000000 0000/000/00 0000/000/		
	1 020980827 sectors 10742183424 bytes	oo 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		
1	13 004208967 sectors 2154991104 bytes		
	15 027712062 sectors 14188575744 bytes		
Loq			
Highlights:	IXImager Log file		
5 5	SCSI device sdb: 17783249 512-byte hdwr sector	s (9105 MB)	
	SCSI device sdc: 78125000 512-byte hdwr sector	s (40000 MB)	
	SCSI device sdb: 17783249 512-byte hdwr sector	s (9105 MB)	
	Initializing		
	Opened input device '/dev/sdc7'		
	Opened output device '/dev/sdb'		
	Beginning Clone operation for 2146765824 bytes Beginning Clone operation		
	1 3 3		
	l Beginning Clone operation		
	Beginning Clone operation Clone Complete		
	Beginning Clone operation Clone Complete Clone was completed successfully.		
	Clone Complete		
	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes)		
	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes)		
	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes)		
	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec		
	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s		
	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0		
	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s		
	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0		
	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C		
	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions		
	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C	1A6769C47 -	
	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C	1A6769C47 -	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C	1A6769C47 -	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C	1A6769C47 -	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI.	1A6769C47 - F325065E5871	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS.	1A6769C47 - F325065E5871 Actual Result as expected as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	1A6769C47 - F325065E5871 Actual Result as expected as expected as expected as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created.	Actual Result as expected as expected as expected as expected as expected as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired.	F325065E5871 Actual Result as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	F325065E5871 Actual Result as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition.	F325065E5871 Actual Result as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI.	F325065E5871 Actual Result as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	F325065E5871 Actual Result as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	F325065E5871 Actual Result as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block.	F325065E5871 Actual Result as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	F325065E5871 Actual Result as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block.	F325065E5871 Actual Result as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	F325065E5871 Actual Result as expected	
Results:	Clone Complete Clone was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Clone Speed : 13.50 MB/sec Elapsed Time : 0h 2m 39s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Dst SHA1 Hash: 9D0C959EE797F223DA273F7CC18239C Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	F325065E5871 Actual Result as expected	

5.2.14 DA-02-LX

Test Case DA-	02-LX ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-02 Acquire a digital source of type DS to an unaligned clone.	
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-04 If clone creation is specified, the tool creates a clone of the	
	digital source.	
	AM-06 All visible sectors are acquired from the digital source.	
	AM-08 All sectors acquired from the digital source are acquired accurately.	
	AO-11 If requested, a clone is created during an acquisition of a digital	
	source.	
	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-17 If requested, any excess sectors on a clone destination device are	
	not modified.	
	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:	brl	
Test Host:	Max	
Test Date:	Thu Apr 20 14:11:48 2006	
Drives:	src(44) dst (2C) other (none)	
Source	src hash: < E196D36E7B322C0EF83923112AD1800581742B6E >	
Setup:	78165360 total sectors (40020664320 bytes) 65534/015/63 (max cyl/hd values)	
	65535/016/63 (number of cyl/hd)	
	IDE disk: Model (WDC WD400JB-00FMA0) serial # (WD-WMAJC1011319)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63	
	2 X 020980890 057175335 1023/000/01 1023/254/63	
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 000000063 002104452 1023/001/01 1023/254/63	
	6 x 002136645 004192965 1023/000/01 1023/254/63	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other	
	8 x 006329610 008401995 1023/000/01 1023/254/63	
	9 S 000000063 008401932 1023/001/01 1023/254/63	
	10 x 014731605 010490445 1023/000/01 1023/254/63	
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux	
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended	
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap	
	14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended	
	15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS	
	16 S 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	18 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes	
	5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes	
	9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes	
	13 004208967 sectors 2154991104 bytes 15 027744192 sectors 14205026304 bytes	
	13 02/144135 peccolp 14503050304 places	
Loq		
Highlights:	IXImager Log file	
J J	SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB)	
	SCSI device Sub: 1//63249 SIZ-Dyte Hawl Sectors (9105 MB)	
	SCSI device sdb: 17765249 512-byte hdwr sectors (9105 MB) SCSI device sdc: 78165360 512-byte hdwr sectors (40021 MB)	
	SCSI device sdc: 78165360 512-byte hdwr sectors (40021 MB) SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB) Initializing	
	SCSI device sdc: 78165360 512-byte hdwr sectors (40021 MB) SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB)	

Test Case DA-02-LX ILook IXimager Version 2.0, Feb 01 2006				
	Beginning Clone operation for 5371075584 bytes			
	Beginning Clone operation			
	Beginning Clone operation			
	Clone Complete			
	Clone was completed successfully.			
	5 254 95 (525425504.1.1.)			
	Read : 5.371 GB (5371075584 bytes)			
	Written : 5.371 GB (5371075584 bytes) Total Processed: 5.371 GB (5371075584 bytes)			
	Clone Speed : 12.82 MB/sec			
	Elapsed Time : Oh 6m 59s			
	Bad Sectors : 0			
	Clearing computer memory			
	3 1			
	Hashes of src and dst partitions			
	Src SHA1 Hash: DB95CCA2D36D79BD0CEEF189296CFF4			
	Dst SHA1 Hash: DB95CCA2D36D79BD0CEEF189296CFF4	F6F4D49C3 -		
	Source SHA1 Hash: E196D36E7B322C0EF83923112AD1	800581742B6E		
Results:				
Results:	Assertion & Expected Result	Actual Result		
	AM-01 Source acquired using interface AI.			
		as expected		
		as expected		
	AM-01 Source acquired daring interface Ar. AM-02 Source is type DS. AM-03 Execution environment is XE.	as expected		
	AM-02 Source is type DS.	*		
	AM-02 Source is type DS. AM-03 Execution environment is XE.	as expected as expected		
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created.	as expected as expected as expected		
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired.	as expected as expected as expected as expected		
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	as expected as expected as expected as expected as expected as expected		
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition.	as expected		
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI.	as expected		
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block.	as expected option not available		
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	as expected		
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block.	as expected option not available		
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	as expected		
Analysis:	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	as expected		

5.2.15 DA-02-NT

Test Case DA-02-NT ILook IXimager Version 2.0, Feb 01 2006			
Description:	· · · · · · · · · · · · · · · · · · ·		
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-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. 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-17 If requested, any excess sectors on a clone destination device are not modified. 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:	brl		
Test Host:	Max		
Test Date:	Fri Apr 21 08:14:26 2006		
Drives:	src(44) dst (E6) other (none)		

Setup: Setup: File5365 total sectors G002064320 bytes) File5365 total G002064320 bytes) File5365 bytes) File5366 byte	Test Case DA-02-NT ILook IXimager Version 2.0, Feb 01 2006			
65334/015/63 (number of cyl/hd) 1DR disk: Model (NDC NUMBOUR-ODFNAD) serial # (ND-NMADIC1011319) N Start LAB Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020380827 0000/001/d1 1023/254/63 OF extended 3 S 000000063 000032067 1023/001/d1 1023/254/63 OF extended 3 S 000000063 000032067 1023/001/d1 1023/254/63 OF extended 5 S 000000063 000032067 1023/001/d1 1023/254/63 OF extended 5 S 000000063 002104452 1023/001/d1 1023/254/63 OF extended 6 S 000000063 002104452 1023/001/d1 1023/254/63 OF extended 6 S 000000063 00419300 1023/001/d1 1023/254/63 OF extended 7 S 000000063 00419300 1023/001/d1 1023/254/63 OF extended 8 S 000000063 00419300 1023/001/d1 1023/254/63 OF extended 9 S 000000063 00419390 1023/000/d1 1023/254/63 OF extended 10 S 000000063 00419391 1023/000/d1 1023/254/63 OF extended 10 S 000000063 00419392 1023/000/d1 1023/254/63 OF extended 11 S 000000063 00420932 1023/000/d1 1023/254/63 OF extended 12 S 000000063 00420932 1023/000/d1 1023/254/63 OF extended 13 S 000000063 0027744255 1023/000/d1 1023/254/63 OF extended 15 S 000000063 027744255 1023/000/d1 1023/254/63 OF extended 15 S 0000000063 0027744255 1023/000/d1 1023/254/63 OF extended 15 S 0000000000 000000000 0000/000/00 0000/000/00 OF empty entry 17 P 0000000000 000000000 0000/000/00 0000/000/00 OF empty entry 17 P 0000000000 00000000 0000/000/00 0000/000/00 OF empty entry 17 P 0000000000 000000000 0000/000/00 0000/000/00 OF empty entry 1020/0000000000000000000000000000000000	Source	src hash: < E196D36E7B322C0EF83923112AD1800581742B6E >		
65535/016/63 (number of cyt/hd) IDB disk Model (MDC M040078-00FMA0) serial # (WD-WMAJC1011319)	Setup:			
IDB disk: Model (MDC WD4007-00FMA0) serial # (ND-WMAJC1011319)				
N			(WD-WMAJC1011319)	
2 X 020980890 057175335 1023/000/01 1023/254/53				
3 S 00000063 000032067 1023/001/01 1023/254/53 05 extended 5 S 00000063 002104452 1023/001/01 1023/254/53 06 Fat16 6 × 00213645 004192965 1023/001/01 1023/254/53 06 Fat16 7 S 00000063 004192902 1023/001/01 1023/254/53 16 other 8 × 006392961 008401995 1023/001/01 1023/254/53 16 other 9 S 00000063 008401932 1023/001/01 1023/254/53 08 Fat32 10 × 014731605 01490445 1023/000/01 1023/254/53 08 Fat32 12 × 025222050 004209045 1023/001/01 1023/254/53 05 extended 11 S 00000063 010490382 1023/001/01 1023/254/53 05 extended 11 S 00000063 010490382 1023/001/01 1023/254/53 05 extended 13 S 00000063 002408967 1023/001/01 1023/254/53 05 extended 13 S 00000063 002408967 1023/001/01 1023/254/53 05 extended 15 S 00000063 027044192 1023/001/01 1023/254/53 07 NTFS 16 S 00000006 000000000 0000/000/00 0000/000/				
# x 000032130 002104515 1023/000/01 1023/254/63				
S S 000000063 002104452 1023/001/01 1023/254/63				
7 S 000000063 004192902 1023/001/01 1023/254/63 16 other 8 x 006329610 008401995 1023/001/01 1023/254/63 05 extended 9 S 000000063 008401932 1023/001/01 1023/254/63 08 Pat32 10 x 014731605 01049045 1023/001/01 1023/254/63 08 Pat32 12 x 02522050 00420945 1023/001/01 1023/254/63 83 Linux 12 x 02522050 00420930 1023/001/01 1023/254/63 83 Linux 12 x 02522050 004208967 1023/001/01 1023/254/63 82 Linux swap 14 x 029431080 027744195 1023/001/01 1023/254/63 82 Linux swap 14 x 029431080 027744195 1023/001/01 1023/254/63 07 NTFS 16 S 00000063 027744192 1023/001/01 1023/254/63 07 NTFS 16 S 00000060 00000000 0000/000/00 0000/000/				
8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended 9 S 000000063 008401932 1023/000/01 1023/254/63 05 extended 11 S 00000063 101490445 1023/000/01 1023/254/63 05 extended 11 S 00000063 101490485 1023/000/01 1023/254/63 05 extended 13 S 00000063 00420930 1023/000/01 1023/254/63 05 extended 13 S 00000063 004208967 1023/000/01 1023/254/63 05 extended 15 S 00000063 027744255 1023/000/01 1023/254/63 05 extended 15 S 00000000 00000000 0000/000/00 0000/000/00 00		6 x 002136645 004192965 1023/000/01 1023/254/	05 extended	
9 \$ 000000063 008401932 1022/001/10 1023/254/63				
10 x 014731605 010490445 1023/000/01 1023/254/63				
11 S 000000063 010490382 1023/000/10 1023/254/63				
13 S 000000063 004208967 1023/000/01 1023/254/63				
14 x 029431080 027744195 1023/001/01 1023/254/63 07 NTS 16 S 000000600 000000000 0000/000/00 0000/000/				
15 S 000000003 027744192 1023/021/01 1023/254/63 0				
16 S 000000000 000000000 0000/000/00 0000/000/00 00				
17 P 000000000 000000000 0000/000/00 0000/000/00 00				
1 020980827 sectors 1042183424 bytes 3 000032067 sectors 164183104 bytes 5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes 15 027744192 sectors 14205026304 bytes Log Highlights: IXImager Log file SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) SCSI device sdb: 35843670 512-byte hdwr sectors (40021 MB) SCSI device sdb: 35843670 512-byte hdwr sectors (40021 MB) SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) Initializing Opened input device '/dev/sdc11' Opened output device '/dev/sdc11' Opened output device '/dev/sdc11' Opened output device '/dev/sdb' Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully. Read : 14.21 GB (14205026304 bytes) Written : 14.21 GB (14205026304 bytes) Total Processed: 14.21 GB (14205026304 bytes) Total Processed: 14.21 GB (14205026304 bytes) Clone Speed : 20.09 MB/sec Elapsed Time : 0h 11m 47s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Dst SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Dst SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Dst SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Source SHA1 Hash: E196D36E7B322C0EF83923112AD1800581742B6E Results: Assertion & Expected Result		17 P 000000000 000000000 0000/000/00 0000/000/	00 00 empty entry	
3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5217075584 bytes 13 004208967 sectors 2154991104 bytes 15 027744192 sectors 14205026304 bytes			00 00 empty entry	
5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes 9 008401932 sectors 2340765824 bytes 1 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes 15 027744192 sectors 14205026304 bytes		_		
7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes 15 027744192 sectors 14205026304 bytes Log Highlights: IXImager Log file SCSI device sdc: 78165360 512-byte hdwr sectors (18352 MB) SCSI device sdc: 78165360 512-byte hdwr sectors (40021 MB) SCSI device sdc: 78165360 512-byte hdwr sectors (18352 MB) Initializing Opened input device '/dev/sdc11' Opened output device '/dev/sdc11' Opened output device operation for 14205026304 bytes Beginning Clone operation Reginning Clone operation Reginning Clone operation Clone Complete Clone was completed successfully. Read : 14.21 GB (14205026304 bytes) Written : 14.21 GB (14205026304 bytes) Total Processed: 14.21 GB (14205026304 bytes) Clone Speed : 20.09 MB/sec Blapsed Time : 0h 11m 47s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Dst SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Source SHA1 Hash: E196D36E7B322C0EF83923112AD1800581742B6E Results: Assertion & Expected Result		<u>-</u>		
9 008401932 sectors 4301789184 bytes		-		
Log Highlights: IXImager Log file SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) SCSI device sdc: 78165360 512-byte hdwr sectors (40021 MB) SCSI device sdc: 78165360 512-byte hdwr sectors (18352 MB) Initializing Opened input device '/dev/sdc1' Opened output device '/dev/sdc1' Opened output device '/dev/sdb' Beginning Clone operation Clone Complete Clone was completed successfully. Read : 14.21 GB (14205026304 bytes) Written : 14.22 GB (14205026304 bytes) Total Processed: 14.21 GB (14205026304 bytes) Clone Speed : 20.09 MB/sec Elapsed Time : 0h 11m 47s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Dst SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Source SHA1 Hash: E196D36E7B322C0EF83923112AD1800581742B6E Results: Assertion & Expected Result		-		
Log Highlights: IXImager Log file SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) SCSI device sdc: 78165360 512-byte hdwr sectors (40021 MB) SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) Initializing Opened input device '/dev/sdc11' Opened output device '/dev/sdb' Beginning Clone operation for 14205026304 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 14.21 GB (14205026304 bytes) Written : 14.21 GB (14205026304 bytes) Total Processed: 14.21 GB (14205026304 bytes) Clone Speed : 20.09 MB/sec Elapsed Time : 0h 11m 47s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Dst SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Source SHA1 Hash: E196D36E7B322C0EF83923112AD1800581742B6E Results: Assertion & Expected Result				
Log Highlights: IXImager Log file SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) SCSI device sdb: 35843670 512-byte hdwr sectors (40021 MB) SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) Initializing Opened input device '/dev/sdc11' Opened output device '/dev/sdb' Beginning Clone operation for 14205026304 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 14.21 GB (14205026304 bytes) Written : 14.21 GB (14205026304 bytes) Total Processed: 14.21 GB (14205026304 bytes) Clone Speed : 20.09 MB/sec Elapsed Time : 0h 11m 47s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHAl Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Dst SHAl Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Source SHAl Hash: E196D36E7B322C0EF83923112AD1800581742B6E Results: Assertion & Expected Result		_		
Highlights: IXImager Log file SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) SCSI device sdc: 78165360 512-byte hdwr sectors (40021 ME) SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) Initializing Opened input device '/dev/sdc11' Opened output device '/dev/sdb' Beginning Clone operation for 14205026304 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 14.21 GB (14205026304 bytes) Written : 14.21 GB (14205026304 bytes) Total Processed: 14.21 GB (14205026304 bytes) Clone Speed : 20.09 MB/sec Elapsed Time : 0h 11m 47s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Dst SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Source SHA1 Hash: E196D36E7B322C0EF83923112AD1800581742B6E Results: Assertion & Expected Result		10 U2//44192 Sectors 142U5U263U4 Dytes		
SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) SCSI device sdc: 78165360 512-byte hdwr sectors (40021 MB) SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) Initializing Opened input device '/dev/sdb' Deginning Clone operation for 14205026304 bytes Deginning Clone operation Deginning Clone operation Deginning Clone operation Clone Complete Clone was completed successfully. Read : 14.21 GB (14205026304 bytes) Written : 14.21 GB (14205026304 bytes) Written : 14.21 GB (14205026304 bytes) Clone Speed : 20.09 MB/sec Elapsed Time : 0h 11m 47s Defined Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Dst SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Source SHA1 Hash: E196D36E7B322C0EF83923112AD1800581742B6E Results: Assertion & Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-04 A clone is created. as expected AM-04 Al clone is created. as expected AM-06 All visible sectors acquired. as expected				
Written : 14.21 GB (14205026304 bytes) Total Processed: 14.21 GB (14205026304 bytes) Clone Speed : 20.09 MB/sec Elapsed Time : 0h 11m 47s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Dst SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Source SHA1 Hash: E196D36E7B322C0EF83923112AD1800581742B6E Results: Assertion & Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-04 A clone is created. as expected AM-06 All visible sectors acquired. as expected	Highlights:	SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) SCSI device sdc: 78165360 512-byte hdwr sectors (40021 MB) SCSI device sdb: 35843670 512-byte hdwr sectors (18352 MB) Initializing Opened input device '/dev/sdc11' Opened output device '/dev/sdb' Beginning Clone operation for 14205026304 bytes Beginning Clone operation Beginning Clone operation Clone Complete		
Written : 14.21 GB (14205026304 bytes) Total Processed: 14.21 GB (14205026304 bytes) Clone Speed : 20.09 MB/sec Elapsed Time : 0h 11m 47s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Dst SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Source SHA1 Hash: E196D36E7B322C0EF83923112AD1800581742B6E Results: Assertion & Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-04 A clone is created. as expected AM-06 All visible sectors acquired. as expected				
Src SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Dst SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 - Source SHA1 Hash: E196D36E7B322C0EF83923112AD1800581742B6E Results: Assertion & Expected Result		Written : 14.21 GB (14205026304 bytes) Total Processed: 14.21 GB (14205026304 bytes) Clone Speed : 20.09 MB/sec Elapsed Time : 0h 11m 47s Bad Sectors : 0		
Results: Assertion & Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-04 A clone is created. as expected AM-06 All visible sectors acquired. as expected		Src SHA1 Hash: BD600A5EC643643D285C6C1C8A7D7A332B052D23 -		
Assertion & Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-04 A clone is created. as expected AM-06 All visible sectors acquired. as expected	Pogult ~	Source SHA1 Hash: E196D36E7B322C0EF83923112AD1800581742B6E		
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-04 A clone is created. as expected AM-06 All visible sectors acquired. as expected	results:	Assertion & Expected Result	Actual Result	
AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. as expected as expected as expected		_		
AM-04 A clone is created. as expected AM-06 All visible sectors acquired. as expected				
AM-06 All visible sectors acquired. as expected			as expected	
II AM-08 All sectors accurately acquired. as expected				
			ag armagted	
AO-14 An unaligned clone is created. as expected		AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI.	as expected as expected as expected	

Test Case DA-02-NT ILook IXimager Version 2.0, Feb 01 2006		
	AO-17 Excess sectors are unchanged.	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.	as expected
		_
Analysis:	Expected results achieved	

5.2.16 DA-02-SWAP

Test Case DA-	02-SWAP ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-02 Acquire a digital source of type DS to an unaligned clone.	
Description: 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-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. 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-17 If requested, any excess sectors on a clone destination device are not modified. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.	
	the digital source is unchanged by the acquisition process.	
Tester Name:	brl	
Test Host:	Joe	
Test Date:	Thu Apr 20 16:26:03 2006	
Drives:	src(43) dst (2F) other (none)	
Source	src hash: < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	78125000 total sectors (40000000000 bytes) Model (0BB-75JHC0) serial # (WD-WMAMC46588)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63	
	2 X 020980890 057143205 1023/000/01 1023/254/63	
	3 S 000000063 000032067 1023/001/01 1023/254/63	
	4 x 000032130 002104515 1023/000/01 1023/254/63	
	5 S 000000063 002104452 1023/001/01 1023/254/63	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other	
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended	
	9 S 000000063 008401932 1023/001/01 1023/254/63	
	10 x 014731605 010490445 1023/000/01 1023/254/63	
	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	
	16 S 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	18 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes	
	5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes	
	13 004208967 sectors 2154991104 bytes	
	15 027712062 sectors 14188575744 bytes	
1	_	

Test Case DA	-02-SWAP ILook IXimager Version 2.0, Feb 01 2006	
rest Case DA Log Highlights:	IXImager Log file SCSI device sdb: 17783249 512-byte hdwr sector SCSI device sdc: 78125000 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened input device '/dev/sdc10' Opened output device '/dev/sdb' Beginning Clone operation for 2154991104 bytes Beginning Clone operation Clone Complete Clone was completed successfully. Read : 2.155 GB (2154991104 bytes) Written : 2.155 GB (2154991104 bytes) Total Processed: 2.155 GB (2154991104 bytes) Clone Speed : 13.39 MB/sec Elapsed Time : 0h 2m 41s Bad Sectors : 0 Clearing computer memory	s (9105 MB) s (40000 MB) s (9105 MB)
	Hashes of src and dst partitions Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500	BF4244BCF -
20gulta.	Hashes of src and dst partitions Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93	BF4244BCF -
esults:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500	BF4244BCF -
esults:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result	BF4244BCF - F325065E5871
esults:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93	BF4244BCF - F325065E5871 Actual Result
esults:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI.	BF4244BCF - F325065E5871 Actual Result as expected
esults:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created.	BF4244BCF - F325065E5871 Actual Result as expected as expected
esults:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	BF4244BCF - F325065E5871 Actual Result as expected as expected as expected as expected
esults:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created.	BF4244BCF - F325065E5871 Actual Result as expected as expected as expected as expected as expected
esults:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired.	F325065E5871 Actual Result as expected
esults:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	F325065E5871 Actual Result as expected
Results:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI.	F325065E5871 Actual Result as expected
Results:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	F325065E5871 Actual Result as expected
Results:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	BF4244BCF - F325065E5871 Actual Result as expected
Results:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block.	F325065E5871 Actual Result as expected
Results:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	F325065E5871 Actual Result as expected
Results:	Src SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Dst SHA1 Hash: F5B062CC31DA088DF7FAF8F7A47E500 Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block.	F325065E5871 Actual Result as expected

5.2.17 DA-02-THUMB

Test Case DA-	02-THUMB ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-02 Acquire a digital source of type DS to an unaligned clone.
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-04 If clone creation is specified, the tool creates a clone of the
	digital source.
	AM-06 All visible sectors are acquired from the digital source.
	AM-08 All sectors acquired from the digital source are acquired accurately.
	AO-11 If requested, a clone is created during an acquisition of a digital
	source.
	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-17 If requested, any excess sectors on a clone destination device are
	not modified.
	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

Test Case DA-	02-THUMB ILook IXimager Version 2.0, Feb 01 200	6
	accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically s	
	the digital source is unchanged by the acquisi	tion process.
Tester Name:	brl	
Test Host:	JohnSteed	
Test Date:	Tue May 9 16:48:45 2006	
Drives:	<pre>src(D2-THUMB) dst (D3-THUMB) other (none)</pre>	
Source	<pre>src hash: < 712C9F59F598745977E4E19F235F83CE8F</pre>	'4EC7BA >
Setup:	253400 total sectors (129740800 bytes)	
	Model (TS128MJFLASHA) serial # ()	
	Removable media, no partition table.	
Log		
Highlights:	Comparision of original to clone	
	Sectors compared: 253400	
	Sectors match: 253400 Sectors differ: 0	
	Bytes differ: 0	
	Diffs range	
	0 source read errors, 0 destination read error	`s
	·	
	IXImager Log file	-h- aug 0500/055/50
	hda: 156301488 sectors (80026 MB) w/8192KiB Ca	iche, CHS=9729/255/63,
	UDMA(100) SCSI device sda: 253400 512-byte hdwr sectors	(120 MP)
	SCSI device sda: 253400 512-byte hdwr sectors SCSI device sdb: 253400 512-byte hdwr sectors	
	SCSI device sdb: 253400 512-byte hdwr sectors	
	Initializing	(130 112)
	Opened input device '/dev/sda'	
	Opened output device '/dev/sdb'	
	Beginning Clone operation for 129740800 bytes	
	Beginning Clone operation	
	Beginning Clone operation	
	Clone Complete	
	Clone was completed successfully.	
	Read : 129.7 MB (129740800 bytes)	
	Written : 129.7 MB (129740800 bytes)	
	Total Processed: 129.7 MB (129740800 bytes)	
	Clone Speed : 655.3 kB/sec	
	Elapsed Time : Oh 3m 18s	
	Bad Sectors : 0	
	Clearing computer memory	
	Source SHA1 Hash: 712C9F59F598745977E4E19F235F	'83CE8F4EC7BA
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-04 A clone is created.	as expected
		-
		as expected
	AM-06 All visible sectors acquired.	as expected as expected
		as expected
	AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	-
	AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition.	as expected as expected
	AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	as expected as expected as expected
	AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	as expected as expected as expected as expected
	AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	as expected as expected as expected as expected as expected
	AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block.	as expected as expected as expected as expected as expected option not available
	AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	as expected as expected as expected as expected as expected option not available as expected

5.2.18 DA-02-ZIP

I Test Case DA-	02-ZIP ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-02 Acquire a digital source of type DS to an unaligned clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.
115501010115	AM-02 The tool acquires digital source DS.
	AM-03 The tool executes in execution environment XE.
	AM-04 If clone creation is specified, the tool creates a clone of the
	digital source.
	AM-06 All visible sectors are acquired from the digital source.
	AM-08 All sectors acquired from the digital source are acquired accurately.
	AO-11 If requested, a clone is created during an acquisition of a digital source.
	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-17 If requested, any excess sectors on a clone destination device are
	not modified.
	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:	brl
Test Host:	Nick
Test Date:	Thu May 11 10:18:03 2006
Drives:	src(E2-ZIP) dst (E1-ZIP) other (none)
Source	src hash: < AFEA6483060C6FAD1026B7094810674E91AEA5D7 >
Setup:	196608 total sectors (100663296 bytes)
	Model (ZIP 250) serial # ()
	Removable media, no partition table.
Log	Commendation of cultural to all
Highlights:	Comparision of original to clone
	Sectors compared: 196608
	Sectors match: 196608
	Sectors differ: 0
	Bytes differ: 0
	Diffs range
	Source (196608) has 292864 fewer sectors than destination (489472)
	Zero fill: 0
	Src Byte fill (E2): 0
	Dst Byte fill (E1): 292864
	± 1 1
1	Other fill: 0
	Other fill: 0 Other no fill: 0
	Other fill: 0 Other no fill: 0 Zero fill range:
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range:
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range:
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: Other not filled range:
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range:
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63,
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100)
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100) SCSI device sda: 196608 512-byte hdwr sectors (101 MB)
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100) SCSI device sda: 196608 512-byte hdwr sectors (101 MB) Initializing
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100) SCSI device sda: 196608 512-byte hdwr sectors (101 MB) Initializing Opened input device '/dev/sda'
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: 0 Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100) SCSI device sda: 196608 512-byte hdwr sectors (101 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/hdb'
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: 0 Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100) SCSI device sda: 196608 512-byte hdwr sectors (101 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/hdb' Beginning Clone operation for 100663296 bytes
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: 0 Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100) SCSI device sda: 196608 512-byte hdwr sectors (101 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/hdb' Beginning Clone operation for 100663296 bytes Beginning Clone operation
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: 0 Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100) SCSI device sda: 196608 512-byte hdwr sectors (101 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sda' Deginning Clone operation Beginning Clone operation Beginning Clone operation Beginning Clone operation
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100) SCSI device sda: 196608 512-byte hdwr sectors (101 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/hdb' Beginning Clone operation Beginning Clone operation Clone Complete
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: 0 Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100) SCSI device sda: 196608 512-byte hdwr sectors (101 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/sda' Deginning Clone operation Beginning Clone operation Beginning Clone operation Beginning Clone operation
	Other fill: 0 Other no fill: 0 Zero fill range: 0 Src fill range: 196608-489471 Other fill range: 196608-489471 Other fill range: 0 Other not filled range: 0 Source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100) SCSI device sda: 196608 512-byte hdwr sectors (101 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/hdb' Beginning Clone operation for 100663296 bytes Beginning Clone operation Beginning Clone operation Clone Complete Clone was completed successfully.
	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100) SCSI device sda: 196608 512-byte hdwr sectors (101 MB) Initializing Opened input device '/dev/sda' Opened output device '/dev/hdb' Beginning Clone operation Beginning Clone operation Clone Complete

Test Case DA-	02-ZIP ILook IXimager Version 2.0, Feb 01 2006	
	Total Processed: 100.7 MB (100663296 bytes) Clone Speed : 756.9 kB/sec Elapsed Time : 0h 2m 13s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: AFEA6483060C6FAD1026B7094810	674E91AEA5D7
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-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	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.	as expected
Analysis:	Expected results achieved	

5.2.19 DA-04

Test Case DA-	04 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-04 Acquire a physical device to a truncated clone.	
Description: Assertions:	DA-04 Acquire a physical device to a truncated clone. 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-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. 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-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-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:	brl	
Test Host:	Max	
Test Date:	Wed May 3 14:43:49 2006	
Drives:	src(41) dst (5A) other (none)	
Source	src hash: < 15CAA1A307271160D8372668BF8A03FC45A51CC9 >	
Setup:	78125000 total sectors (4000000000 bytes)	
_	65534/015/63 (max cyl/hd values)	
	65535/016/63 (number of cyl/hd)	
	IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC4658355)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00	
	2 P 000000000 000000000 0000/000/00 0000/000/00 00	
	4 P 000000000 00000000 0000/000/00 0000/000/00 00	
	1 078107967 sectors 39991279104 bytes	
L	1 0.010.70.7 December 37771217104 Dyceb	

Test Case DA-	04 ILook IXimager Version 2.0, Feb 01 2006	
T		
Log Highlights:	Comparision of original to clone Sectors compared: 12692736 Sectors match: 12692736 Sectors differ: 0 Bytes differ: 0 Diffs range Source (78125000) has 65432264 more sectors th 0 source read errors, 0 destination read error	
	IXImager Log file hda: 12692736 sectors (6498 MB) w/468KiB Cache hdb: 78125000 sectors (40000 MB) w/2048KiB Cache hdb: 78125000 sectors (40000 MB) w/2048KiB Cac UDMA(100) Initializing Opened input device '/dev/hdb' Opened output device '/dev/hda' Beginning Clone operation for 40000000000 byte Beginning Clone operation Beginning Clone operation Your target device has run out of free space! Clone Aborted Clone was aborted. Read : 6.507 GB (6506938368 bytes) Written : 6.499 GB (6498549760 bytes) Total Processed: 6.507 GB (6506938368 bytes) Expected Size : 40.00 GB (40000000000 bytes) Clone Speed : 53.30 kB/sec Elapsed Time : 33h 54m 35s Bad Sectors : 0 Clearing computer memory	he, CHS=65535/16/63,
	Source SHA1 Hash: 15CAA1A307271160D8372668BF8A	.03FC45A51CC9
Results:		T
	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-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-19 Truncated clone is created.	as expected
	AO-20 User notified that clone is truncated.	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.	as expected
Analysis:	Expected results achieved	
wiatlete:	Typeceed reputes active ver	

5.2.20 DA-06-ATA28

Test Case DA-	06-ATA28 ILook IXimager Version 2.0, Feb 01 2006
Description:	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

AO-22 If requested, th size during an acquisi AO-23 If the tool logs accurately recorded in AO-24 If the tool exec the digital source is: Tester Name: brl Test Host: Paladin Test Date: Wed Mar 29 11:47:49 20 Drives: src (41) dst (4D-FU2) o Source src hash: < 15CAA1A307 Setup: 78125000 total sectors 65534/015/63 (max cyl/65335/016/63 (mumber o IDE disk: Model (WDC WN Start LBA Length 1 P 000000063 0781079 2 P 000000000 00000000 3 P 000000000 00000000	Wantier 2 0 Reb 01 2000	
AO-22 If requested, th size during an acquisi AO-23 If the tool logs accurately recorded in AO-24 If the tool exect the digital source is the digital source is the digital source is set (41) dst (4D-FU2) or Source src hash: < 15CAA1A307 78125000 total sectors (5534/015/63 (max cyl/65335/016/63 (number or IDE disk: Model (WDC WN Start LBA Length 1 P 000000003 0781079 2 P 000000000 0000000 4 P 000000000 0000000 4 P 00000000	Persion 2.0, Feb 01 2006 Phall be no larger than the requested size.	
Tester Name: br1 Test Host: Paladin Test Date: Wed Mar 29 11:47:49 20 Drives: src (41) dst (4D-FU2) o Source src hash: < 15CAA1A307 Setup: 78125000 total sectors 65534/015/63 (max cyl/65535/016/63 (number o IDE disk: Model (WDC W N Start LBA Length 1 P 000000003 0781079 2 P 000000000 00000000 4 P 00000000 00000000	te tool calculates block hashes for a specified block tion for each block acquired from the digital source. any log significant information, the information is the log file.	
Test Host: Paladin Test Date: Wed Mar 29 11:47:49 20 Drives: src(41) dst (4D-FUZ) o Source src hash: < 15CAALA307 78125000 total sectors 65534/015/63 (max cyl/ 65535/016/63 (number o IDE disk: Model (WDC W N Start LBA Length 1 P 000000003 0781079 2 P 000000000 0000000 3 P 000000000 0000000 4 P 000000000 0000000 4 P 000000000 0000000 1 078107967 sectors 39 Log Highlights: IXImager Log file hda: 78125000 sectors UDMA(100) SCSI device sda: 78144 User selected ILook De Initializing Opened output file '/I Beginning Image operat Beginning Image operat Depend output file '/I continuing at byte 209 Image is being stored Opened output file '/I continuing at byte 391 Image is being stored Opened output file '/I continuing at byte 391 Image is being stored Image Complete Image was completed su Read : 40.0 Written : 1.31 Total Processed: 40.0 Image Speed : 16.0 Elapsed Time : 0h 4 Compression : 96.7 Bad Sectors : 0 SHA-1 Value : 15ca : for Clearing computer memo Source SHA1 Hash: 15CA Results: Assertion & Expected AM-01 Source acquired AM-02 Source is type AM-03 Execution envir AM-05 An image is cre AM-06 All visible sec AM-08 All sectors acc	rutes in a forensically safe execution environment, unchanged by the acquisition process.	
Test Date: Wed Mar 29 11:47:49 20		
Drives: Src(41) dst (4D-FU2) o Source Src hash: < 15CAA1A307 78125000 total sectors 65534/015/63 (max cyl/65535/016/63 (number o IDE disk: Model (WDC W N Start LBA Length 1 P 000000000 0000000 A P 00000000 000000 A P 00000000 00000 A P 00000000 00000 A P 00000000 000000 A P 00000000 00000 A P 00000000 000000 A P 00000000 000000 A P 00000000 000000 A P 00000000 000000 A P 00000000 00000 A P 00000000 A P 0000000 A P 00000000 A P 0000000 A P 0000000 A P 0000		
Source Setup: Setup:		
Setup: 78125000 total sectors 65534/015/63 (max cyl/ 65535/016/63 (number o IDE disk: Model (WDC W N Start LBA Length 1 P 000000063 0781079 2 P 000000000 0000000 3 P 000000000 0000000 4 P 000000000 0000000 1 078107967 sectors 39 Log Highlights: IXImager Log file hda: 78125000 sectors UDMA(100) SCSI device sda: 78144 User selected ILook De Initializing Opened output file '/I Beginning Image operat Beginning Image operat Beginning Image operat Beginning Image operat Opened output file '/I continuing at byte 209 Image is being stored Opened output file '/I continuing at byte 391 Image is being stored Image Complete Image was completed su Read		
Highlights: IXImager Log file hda: 78125000 sectors UDMA(100) SCSI device sda: 78144 User selected ILook De Initializing Opened output file '/I Beginning Image operat Beginning Image operat Beginning Image operat Opened output file '/I continuing at byte 209 Image is being stored Opened output file '/I continuing at byte 391 Image is being stored Image Complete Image was completed su Read : 40.0 Written : 1.31 Total Processed: 40.0 Image Speed : 16.0 Elapsed Time : 0h 4 Compression : 96.7 Bad Sectors : 0 SHA-1 Value : 15ca : for Clearing computer memo Source SHA1 Hash: 15CA Results: Assertion & Expected AM-01 Source acquired AM-02 Source is type AM-03 Execution envir AM-05 An image is cre AM-06 All visible sec AM-08 All sectors according to the sectors	<pre>src hash: < 15CAAlA307271160D8372668BF8A03FC45A51CC9 > 78125000 total sectors (40000000000 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC4658355) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00</pre>	
Assertion & Expected AM-01 Source acquired AM-02 Source is type AM-03 Execution envir AM-05 An image is cre AM-06 All visible sec AM-08 All sectors acc	Highlights: IXImager Log file hda: 78125000 sectors (40000 MB) w/2048KiB Cache, CHS=4863/255/63, UDMA(100) SCSI device sda: 781443888 512-byte hdwr sectors (400099 MB) User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.003/DA06ATA28001.asb' Beginning Image operation Beginning Image operation Opened output file '/ILookImager/ILook.003/DA06ATA28002.asb' continuing at byte 20948254720 Image is being stored to /ILook.003/DA06ATA28002.asb Opened output file '/ILookImager/ILook.003/DA06ATA28003.asb' continuing at byte 39119159296 Image is being stored to /ILook.003/DA06ATA28003.asb Image Complete Image was completed successfully. Read : 40.00 GB (40000000000 bytes) Written : 1.316 GB (1316466855 bytes) Total Processed: 40.00 GB (40000000000 bytes) Image Speed : 16.00 MB/sec Elapsed Time : 0h 41m 40s Compression : 96.71%	
Assertion & Expected AM-01 Source acquired AM-02 Source is type AM-03 Execution envir AM-05 An image is cre AM-06 All visible sec AM-08 All sectors acc		
AM-01 Source acquired AM-02 Source is type AM-03 Execution envir AM-05 An image is cre AM-06 All visible sec AM-08 All sectors acc	Result Actual Result	
AM-03 Execution envir AM-05 An image is cre AM-06 All visible sec AM-08 All sectors acc		
AM-05 An image is cre AM-06 All visible sec AM-08 All sectors acc		
AM-06 All visible sec AM-08 All sectors acc		
AM-08 All sectors acc		
	curately acquired. as expected as expected as expected	
AO-05 Multifile image	-	
AO-22 Tool calculates		
AO-23 Logged informat		
AO-24 Source is uncha		

Test Case DA-	06-ATA28 ILook IXimager Version 2.0, Feb 01 2006
Analysis:	Expected results achieved

5.2.21 DA-06-ATA48

Test Case DA-06-ATA48 ILook IXimager Version 2.0, Feb 01 2006			
Description:	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:	brl		
Test Host:	Max		
Test Date:	Wed Apr 5 12:20:40 2006		
Drives:	src(4C) dst (4D-FU2) other (none)		
Source	<pre>src hash: < 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF ></pre>		
Setup:	390721968 total sectors (200049647616 bytes) 24320/254/63 (max cyl/hd values)		
	24320/254/63 (max cyi/nd values) 24321/255/63 (number of cyl/hd)		
	IDE disk: Model (WDC WD2000JB-00KFA0) serial # (WD-WMAMR1031111)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 390700737 0000/001/01 1023/254/63 Boot 07 NTFS		
	2 P 000000000 000000000 0000/000/00 0000/000/00 00		
	3 P 000000000 000000000 0000/000/00 0000/000/00 00		
	4 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 390700737 sectors 200038777344 bytes		
Log			
Highlights:	IXImager Log file		
	hda: 390721968 sectors (200049 MB) w/8192KiB Cache, CHS=24321/255/63,		
	UDMA (100)		
	SCSI device sdb: 781443888 512-byte hdwr sectors (400099 MB) User selected ILook Default Image Format		
	Initializing		
	Opened output file '/ILookImager/ILook.015/ATAB3001.asb'		
	Beginning Image operation for 200049647616 bytes		
	Beginning Image operation		
	Beginning Image operation		
	Opened output file '/ILookImager/ILook.015/ATAB3002.asb'		
	continuing at byte 1274740736		
	Image is being stored to /ILook.015/ATAB3002.asb		
	Opened output file '/ILookImager/ILook.015/ATAB3003.asb'		
	continuing at byte 22620078080		
	Image is being stored to /ILook.015/ATAB3003.asb		
	Opened output file '/ILookImager/ILook.015/ATAB3004.asb'		
	continuing at byte 50723815424		
	Image is being stored to /ILook.015/ATAB3004.asb		
	Opened output file '/ILookImager/ILook.015/ATAB3005.asb'		
	continuing at byte 78889615360 Image is being stored to /ILook.015/ATAB3005.asb		
	Opened output file '/ILookImager/ILook.015/ATAB3006.asb'		
	continuing at byte 107052662784		
	Image is being stored to /ILook.015/ATAB3006.asb		
	Opened output file '/ILookImager/ILook.015/ATAB3007.asb'		
	continuing at byte 135218331648		
	Image is being stored to /ILook.015/ATAB3007.asb		
	Opened output file '/ILookImager/ILook.015/ATAB3008.asb'		
	continuing at byte 163384066048		
	CONCINUING at Dyte 103304000040		

Test Case DA-	06-ATA48 ILook IXimager Version 2.0, Feb 01 2006	
	<pre>Image is being stored to /ILook.015/ATAB3008.asb Opened output file '/ILookImager/ILook.015/ATAB3009 continuing at byte 191549800448 Image is being stored to /ILook.015/ATAB3009.asb Image Complete Image was completed successfully. Read : 200.0 GB (200049647616 bytes) Written : 5.380 GB (5379855567 bytes) Total Processed: 200.0 GB (200049647616 bytes) Image Speed : 26.17 MB/sec Elapsed Time : 2h 7m 23s Compression : 97.31% Bad Sectors : 0 SHA-1 Value : 8ff620d2bedccafe8412edaad56c8554f</pre>	872efbf
Results:	Agantian C Emparted Pagult	Actual Result
	Assertion & Expected Result	
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	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.	as expected
Analusia	Dungahad nagulta ashi anad	
Analysis:	Expected results achieved	

5.2.22 DA-06-FIREWIRE

Test Case DA-	06-FIREWIRE ILook IXimager Version 2.0, Feb 01 2006	
Description:	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:	brl	
Test Host:	JohnSteed	
Test Date:	Tue Apr 4 09:26:17 2006	
Drives:	src(83-FU2) dst (4D-FU2) other (none)	
Source	src hash: < 9B0D0FEA3023476FA5D24436C0CEFCB585EB8695 >	
Setup:	160836480 total sectors (82348277760 bytes)	
	10010/254/63 (max cyl/hd values)	
	10011/255/63 (number of cyl/hd)	
	Model (HDS722580VLAT20) serial # ()	

T		
Log Highlights:	IXImager Log file	
inginingines:	hda: 156301488 sectors (80026 MB) w/8192KiB Cache,	CHS=9729/255/63
	UDMA(100)	CIIS-312312331031
	SCSI device sda: 781443888 512-byte hdwr sectors (4	00099 MB)
	SCSI device sdb: 160836480 512-byte hdwr sectors (8	2348 MB)
	User selected ILook Default Image Format	
	Initializing	
	Opened output file '/ILookImager/ILook.009/DA06FIRE Beginning Image operation for 82348277760 bytes	WIRE001.asb'
	Beginning Image operation for 82348277780 bytes Beginning Image operation	
	Beginning Image operation	
	Opened output file '/ILookImager/ILook.009/DA06FIRE	WIRE002.asb'
	continuing at byte 28174450688	
	Image is being stored to /ILook.009/DA06FIREWIRE002	.asb
	Opened output file '/ILookImager/ILook.009/DA06FIRE	WIRE003.asb'
	continuing at byte 56342872064	,
	Image is being stored to /ILook.009/DA06FIREWIRE003 Image Complete	.asp
	Image was completed successfully.	
	image was completed successivily.	
	Read : 82.35 GB (82348277760 bytes)	
	Written : 1.894 GB (1894487827 bytes)	
	Total Processed: 82.35 GB (82348277760 bytes)	
	Image Speed : 7.943 MB/sec	
	Elapsed Time : 2h 52m 48s Compression : 97.70%	
	Bad Sectors : 0	
	SHA-1 Value : 9b0d0fea3023476fa5d24436c0cefcb58	5eb8695
	: for 82348277760 bytes	
	Clearing computer memory	
	Source SHA1 Hash: 9B0D0FEA3023476FA5D24436C0CEFCB58	5EB8695
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
	A0-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected option not available
	AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected as expected
	LAO 24 BOULCE IS unchanged by acquisicion.	as expected
Analysis:	Expected results achieved	

5.2.23 DA-06-SATA28

Test Case DA-	06-SATA28 ILook IXimager Version 2.0, Feb 01 2006		
Description:	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.		

Test Case DA-	06-SATA28 ILook IXimager Version 2.0, Feb 01 2006		
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.		
Tester Name:	brl		
Test Host:	Joe		
Test Date:	Thu Mar 30 14:04:53 2006		
Drives:	src(07) dst (4D-FU2) other (none)		
Source	<pre>src hash: < 655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52</pre>	E>	
Setup:	156301488 total sectors (80026361856 bytes)		
	Model (WDC WD800JD-32HK) serial # (WD-WMAJ91510044) N Start LBA Length Start C/H/S End C/H/S bo		
	1 P 000000063 156280257 0000/001/01 1023/254/63 Bo		
	2 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry	
	3 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry	
	4 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry	
	1 156280257 sectors 80015491584 bytes		
Log Highlights:	IXImager Log file		
	atal: dev 0 ATA-6, max UDMA/133, 156301488 sectors:		
	SCSI device sdb: 156301488 512-byte hdwr sectors (8		
	SCSI device sdc: 781443888 512-byte hdwr sectors (4 User selected ILook Default Image Format	00099 MB)	
	Initializing		
	Opened output file '/ILookImager/ILook.007/DA06SATA	48001.asb'	
	Beginning Image operation for 80026361856 bytes		
	Beginning Image operation		
	Beginning Image operation Opened output file '/ILookImager/ILook.007/DA06SATA	18002 ach!	
	continuing at byte 1286864896	40002.asb	
	Image is being stored to /ILook.007/DA06SATA48002.a	sb	
	Opened output file '/ILookImager/ILook.007/DA06SATA	48003.asb'	
	continuing at byte 22481928192 Image is being stored to /ILook.007/DA06SATA48003.asb Opened output file '/ILookImager/ILook.007/DA06SATA48004.asb'		
	continuing at byte 50646089728	40004.asD	
	Image is being stored to /ILook.007/DA06SATA48004.a	sb	
	Opened output file '/ILookImager/ILook.007/DA06SATA48005.asb'		
	continuing at byte 78812282880		
	Image is being stored to /ILook.007/DA06SATA48005.asb		
	Image Complete Image was completed successfully.		
	Poad . 80 03 CB (80026361856 bytes)		
	Read : 80.03 GB (80026361856 bytes) Written : 2.620 GB (2620183743 bytes)		
	Total Processed: 80.03 GB (80026361856 bytes)		
	Image Speed : 25.81 MB/sec		
	Elapsed Time : 0h 51m 40s		
	Compression : 96.73%		
	Bad Sectors : 0 SHA-1 Value : 655e9bddb36a3f9c5c4cc8bf32b8c5b41af9f52e		
	: for 80026361856 bytes	WIJIJ20	
	Clearing computer memory		
Source SHA1 Hash: 655E9BDDB36A3F9C5C4CC8BF32B8C		AF9F52E	
Results:			
	Assertion & Expected Result AM-01 Source acquired using interface AI.	Actual Result as expected	
	AM-01 Source acquired using interface A1. AM-02 Source is type DS.	as expected as expected	
	AM-02 Source is type DS. AM-03 Execution environment is XE.	as expected 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.	as expected	
Analysis:	Expected results achieved		

5.2.24 DA-06-SATA48

Description:	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.
ester Name:	brl
est Host:	Joe
est Date:	Wed Apr 5 09:51:02 2006
rives:	src(16) dst (4D-FU2) other (none)
	src hash: < F82982A9C63133988C1D2B4DA7C9C25CCA2D77A5 >
Source	
Setup:	312581808 total sectors (160041885696 bytes)
	19456/254/63 (max cyl/hd values)
	19457/255/63 (number of cyl/hd)
	Model (WDC WD1600JD-00G) serial # (WD-WMAES2058252)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 312560577 0000/001/01 1023/254/63 Boot 07 NTFS
	2 P 000000000 000000000 0000/000/00 0000/000/00 00
	3 P 000000000 000000000 0000/000/00 0000/000/00 00
	4 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 312560577 sectors 160031015424 bytes
Log	
Highlights:	IXImager Log file
	ata2: dev 0 ATA-6, max UDMA/100, 312581808 sectors: LBA48
	SCSI device sdb: 312581808 512-byte hdwr sectors (160042 MB)
	SCSI device sdc: 781443888 512-byte hdwr sectors (400099 MB)
	User selected ILook Default Image Format
	Initializing
	Opened output file '/ILookImager/ILook.010/DA06SATA48001.asb'
	Beginning Image operation for 160041885696 bytes
	Beginning Image operation
	Beginning Image operation
	Opened output file '/ILookImager/ILook.010/DA06SATA48002.asb'
	continuing at byte 1267662848
	Image is being stored to /ILook.010/DA06SATA48002.asb
	Opened output file '/ILookImager/ILook.010/DA06SATA48003.asb'
	continuing at byte 22621192192
	Image is being stored to /ILook.010/DA06SATA48003.asb
	Opened output file '/ILookImager/ILook.010/DA06SATA48004.asb'
	continuing at byte 50723553280
	Image is being stored to /ILook.010/DA06SATA48004.asb
	Opened output file '/ILookImager/ILook.010/DA06SATA48005.asb'
	continuing at byte 78889680896
	Image is being stored to /ILook.010/DA06SATA48005.asb
	Opened output file '/ILookImager/ILook.010/DA06SATA48006.asb'
	continuing at byte 107052138496
	Image is being stored to /ILook.010/DA06SATA48006.asb
	Opened output file '/ILookImager/ILook.010/DA06SATA48007.asb'
	continuing at byte 135218266112
	Image is being stored to /ILook.010/DA06SATA48007.asb
	Image Complete
	Image was completed successfully.
	Image was compressed successfully.
	Read : 160.0 GB (160041885696 bytes)

Test Case DA-	06-SATA48 ILook IXimager Version 2.0, Feb 01 2006		
	Total Processed: 160.0 GB (160041885696 bytes) Image Speed : 22.83 MB/sec Elapsed Time : 1h 56m 50s Compression : 97.21% Bad Sectors : 0 SHA-1 Value : f82982a9c63133988c1d2b4da7c9c25cc : for 160041885696 bytes Clearing computer memory Source SHA1 Hash: F82982A9C63133988C1D2B4DA7C9C25CC		
Results:			
	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	
	AM-02 Source is type DS. AM-03 Execution environment is XE.	as expected	
		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.	as expected	
Analysis:	Expected results achieved		

5.2.25 DA-06-SCSI

Test Case DA-06-SCSI ILook IXimager Version 2.0, Feb 01 2006		
Description:	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:	brl	
Test Host:	Paladin	
Test Date:	Wed Mar 29 09:39:34 2006	
Drives:	src(2A) dst (4D-FU2) other (none)	
Source Setup:	src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 > 17783249 total sectors (9105023488 bytes) Model (QM39100TD-SCA) serial # (PCB=20-116711-06 HDAQM39100TD-SCA) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 017751762 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/0000/00 00	
Log Highlights:	IXImager Log file SCSI device sda: 17783249 512-byte hdwr sectors (9105 MB) SCSI device sdb: 781443888 512-byte hdwr sectors (400099 MB) User selected ILook Default Image Format Initializing	

Test Case DA-	06-SCSI ILook IXimager Version 2.0, Feb 01 2006	
	Opened output file '/ILookImager/ILook.002/DA06SCSI Beginning Image operation for 9105023488 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 9.105 GB (9105023488 bytes) Written : 606.9 MB (606900616 bytes) Total Processed: 9.105 GB (9105023488 bytes) Image Speed : 11.66 MB/sec Elapsed Time : 0h 13m 1s Compression : 93.33% Bad Sectors : 0 SHA-1 Value : f5f9f2903dcab895f36e270fb22a722e2	7918125
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.	as expected
Amalusia	Dungated ungulta askingd	
Analysis:	Expected results achieved	

5.2.26 DA-06-USB

Test Case DA-	06-USB ILook IXimager Version 2.0, Feb 01 2006		
Description:	DA-06 Acquire a physical device using access interface AI to an image file.		
Description: Assertions:	DA-06 Acquire a physical device using access interface AI 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. A0-24 If the tool executes in a forensically safe execution environment,		
Tester Name:	the digital source is unchanged by the acquisition process.		
	brl JohnSteed		
Test Host: Test Date:	Johnsteed Wed Mar 29 16:33:12 2006		
Drives:	src(63-FU2) dst (4D-FU2) other (none)		
Source Setup:	src hash: < F7069EDCBEAC863C88DECED82159F22DA96BE99B > 117304992 total sectors (60060155904 bytes)		
secup.	Model (SP0612N) serial # ()		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 004192902 0000/001/01 0260/254/63 Boot 06 Fat16		
	2 X 004192965 113097600 0261/000/01 1023/254/63		
	3 S 000000063 113097537 0261/001/01 1023/254/63		

Test Case DA-	06-USB ILook IXimager Version 2.0, Feb 01 2006	
	4 S 000000000 000000000 0000/000/00 0000/000/00 5 P 000000000 000000000 0000/000/00 0000/000/00 6 P 000000000 00000000 0000/000/00 0000/000/00 1 004192902 sectors 2146765824 bytes 3 113097537 sectors 57905938944 bytes	00 empty entry 00 empty entry 00 empty entry
Log Highlights:	og	
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.	as expected
Analysis:	Expected results achieved	

5.2.27 DA-07-CF

Test Case DA-07-CF ILook IXimager Version 2.0, Feb 01 2006			
Description:	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		

Test Case DA-07-CF ILook IXimager Version 2.0, Feb 01 2006			
	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:	brl		
Test Host:	JohnSteed		
Test Date:	Wed May 10 16:19:56 2006		
Drives:	src(C1-CF) dst (4D-FU2) other (none)		
Source Setup:	<pre>src hash: < 5B8235178DF99FA307430C088F81746606638A0B > 503808 total sectors (257949696 bytes) Removable media, no partition table.</pre>		
Log Highlights:			
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. as expected		
Analysis:	Expected results achieved		

5.2.28 DA-07-F12

Test Case DA-07-F12 ILook IXimager Version 2.0, Feb 01 2006		
Description:	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.	

Test Case DA-	07-F12 ILook IXimager Version 2.0, Feb 01 2006		
Test Case DA-	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:	brl		
Test Host:	Joe		
Test Date:	Fri Apr 21 13:53:43 2006		
Drives:	src(43) dst (4D-FU2) other (none)		
Source	src hash: < 888E2E7F7AD237DC7A732281DD93F325065E5871 >		
Setup:	78125000 total sectors (4000000000 bytes)		
	Model (OBB-75JHCO) serial # (WD-WMAMC46588)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63		
	2 X 020980890 057143205 1023/000/01 1023/254/63		
	3 S 000000063 000032067 1023/001/01 1023/254/63		
	4 x 000032130 002104515 1023/000/01 1023/254/63		
	5 S 000000063 002104452 1023/001/01 1023/254/63		
	6 x 002136645 004192965 1023/000/01 1023/254/63		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other		
	8 x 006329610 008401995 1023/000/01 1023/254/63		
	9 S 000000063 008401932 1023/001/01 1023/254/63		
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended		
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux		
	12 x 025222050 004209030 1023/000/01 1023/254/63		
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap		
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027712062 sectors 14188575744 bytes		
F			
Log	TVT		
Highlights:	IXImager Log file		
	SCSI device sdb: 78125000 512-byte hdwr sectors (40000 MB)		
	SCSI device sdc: 781443888 512-byte hdwr sectors (400099 MB)		
	User selected ILook Default Image Format		
	Initializing		
	Opened output file '/ILookImager/ILook.012/DA07F12001.asb'		
	Beginning Image operation for 16418304 bytes		
	Beginning Image operation		
	Beginning Image operation		
	Image Complete		
	Image was completed successfully.		
	De-3 16 40 MD (16410004 3 1 1)		
	Read : 16.42 MB (16418304 bytes)		
	Written : 593.0 kB (593021 bytes)		
	Total Processed: 16.42 MB (16418304 bytes)		
	Image Speed : 8.209 MB/sec		
	Elapsed Time : Oh Om 2s		
	Compression : 96.39%		
	Bad Sectors : 0		
	SHA-1 Value : 6853b517f50bf3ccaded3db5feae08c18c62fca0		
	: for 16418304 bytes		
	Clearing computer memory		

	Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93F3250	65E5871
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.	as expected
Analysis:	Expected results achieved	

5.2.29 DA-07-F16

Test Case DA-07-F16 ILook IXimager Version 2.0, Feb 01 2006				
Description: DA-07 Acquire a digital source of type DS to an image file.				
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.			
	AM-02 The tool acquires digital source DS.			
	AM-03 The tool executes in execution environment XE.			
	AM-05 If image file creation is specified, the tool creates an image file			
	on file system type FS.			
	AM-06 All visible sectors are acquired from the digital source.			
	AM-08 All sectors acquired from the digital source are acquired accurately.			
	AO-01 If the tool creates an image file, the data represented by the image			
	file is the same as the data acquired by the tool.			
	AO-05 If the tool creates a multi-file image of a requested size then all			
	the individual files shall be no larger than the requested size.			
	AO-22 If requested, the tool calculates block hashes for a specified block			
	size during an acquisition for each block acquired from the digital source.			
	AO-23 If the tool logs any log significant information, the information is			
	accurately recorded in the log file.			
	AO-24 If the tool executes in a forensically safe execution environment,			
	the digital source is unchanged by the acquisition process.			
Tester Name:	brl			
Test Host:	Max			
Test Date:	Fri Apr 21 14:01:44 2006			
Drives:	src(44) dst (4D-FU2) other (none)			
Source	src hash: < E196D36E7B322C0EF83923112AD1800581742B6E >			
Setup:	78165360 total sectors (40020664320 bytes)			
	65534/015/63 (max cyl/hd values)			
	65535/016/63 (number of cyl/hd)			
	IDE disk: Model (WDC WD400JB-00FMA0) serial # (WD-WMAJC1011319)			
	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 057175335 1023/000/01 1023/254/63			
	3 S 000000063 000032067 1023/001/01 1023/254/63			
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended			
	5 S 000000063 002104515 1023/000/01 1023/254/63			
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended			
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other			
	8 x 006329610 008401995 1023/000/01 1023/254/63			
	9 S 000000063 008401932 1023/001/01 1023/254/63			
	10 x 014731605 010490445 1023/000/01 1023/254/63 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 000000000 0000/000/00 0000/000/00 00			
	17 P 000000000 000000000 0000/000/00 0000/000/00 00			
	18 P 000000000 000000000 0000/000/00 0000/000/00 00			
<u> </u>	33 S.m.p. G. SHELT			

Test Case DA-07-F16 ILook IXimager Version 2.0, Feb 01 2006			
	1 020980827 sectors 10742183424 bytes 3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes 15 027744192 sectors 14205026304 bytes		
Log Highlights:	IXImager Log file SCSI device sdb: 78165360 512-byte hdwr sectors (40021 MB) SCSI device sdc: 781443888 512-byte hdwr sectors (400099 MB) User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.013/DA07F16001.asb' Beginning Image operation for 1077479424 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 1.077 GB (1077479424 bytes) Written : 24.93 MB (24932422 bytes) Total Processed: 1.077 GB (1077479424 bytes) Image Speed : 7.865 MB/sec Elapsed Time : 0h 2m 17s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : f26795072562849a38bb46c94aa54b7dlca65660 : for 1077479424 bytes Clearing computer memory		
Results:			
	Assertion & Expected Result	Actual 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. AO-24 Source is unchanged by acquisition.	as expected	
Analysis:	Expected results achieved		

5.2.30 DA-07-F32

Test Case DA-	07-F32 ILook IXimager Version 2.0, Feb 01 2006		
Description:	DA-07 Acquire a digital source of type DS to an image file.		
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.		
	AM-02 The tool acquires digital source DS.		
	AM-03 The tool executes in execution environment XE.		
	AM-05 If image file creation is specified, the tool creates an image file		
	on file system type FS.		
	AM-06 All visible sectors are acquired from the digital source.		
	AM-08 All sectors acquired from the digital source are acquired accurately.		
	AO-01 If the tool creates an image file, the data represented by the image		
	file is the same as the data acquired by the tool.		
	AO-05 If the tool creates a multi-file image of a requested size then all		
	the individual files shall be no larger than the requested size.		
	AO-22 If requested, the tool calculates block hashes for a specified block		
	size during an acquisition for each block acquired from the digital source.		
	AO-23 If the tool logs any log significant information, the information is		

	Test Case DA-07-F32 ILook IXimager Version 2.0, Feb 01 2006		
	accurately recorded in the log file. AO-24 If the tool executes in a forensically safe extends the digital source is unchanged by the acquisition		
Tester Name:	brl		
Test Host:	Joe		
Test Date:	Fri Apr 21 15:48:08 2006		
Drives:	src(43) dst (4D-FU2) other (none)		
Source Setup:	<pre>src(43) dst (4D-FU2) other (none) src hash: < 888E2E7F7AD237DC7A732281DD93F325065E587. 78125000 total sectors (40000000000 bytes) Model (0BB-75JHC0</pre>	88)	
Log Highlights:	IXImager Log file SCSI device sdb: 78125000 512-byte hdwr sectors (40) SCSI device sdc: 781443888 512-byte hdwr sectors (4) User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.014/DA07F320		
	Beginning Image operation for 4301789184 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 4.302 GB (4301789184 bytes) Written : 98.98 MB (98984710 bytes) Total Processed: 4.302 GB (4301789184 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 9m 3s Compression : 97.70% Bad Sectors : 0 SHA-1 Value : 72462489bcf79a98b59b6a8cd938feb46:	fa2a781	
	Beginning Image operation for 4301789184 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 4.302 GB (4301789184 bytes) Written : 98.98 MB (98984710 bytes) Total Processed: 4.302 GB (4301789184 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 9m 3s Compression : 97.70% Bad Sectors : 0 SHA-1 Value : 72462489bcf79a98b59b6a8cd938feb46: : for 4301789184 bytes Clearing computer memory	fa2a781	
Results:	Beginning Image operation for 4301789184 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 4.302 GB (4301789184 bytes) Written : 98.98 MB (98984710 bytes) Total Processed: 4.302 GB (4301789184 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 9m 3s Compression : 97.70% Bad Sectors : 0 SHA-1 Value : 72462489bcf79a98b59b6a8cd938feb46 : for 4301789184 bytes Clearing computer memory Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93F32506	fa2a781 65E5871	
Results:	Beginning Image operation for 4301789184 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 4.302 GB (4301789184 bytes) Written : 98.98 MB (98984710 bytes) Total Processed: 4.302 GB (4301789184 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 9m 3s Compression : 97.70% Bad Sectors : 0 SHA-1 Value : 72462489bcf79a98b59b6a8cd938feb46:	fa2a781 65E5871 Actual Result	
Results:	Beginning Image operation for 4301789184 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 4.302 GB (4301789184 bytes) Written : 98.98 MB (98984710 bytes) Total Processed: 4.302 GB (4301789184 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 9m 3s Compression : 97.70% Bad Sectors : 0 SHA-1 Value : 72462489bcf79a98b59b6a8cd938feb46 : for 4301789184 bytes Clearing computer memory Source SHA1 Hash: 888E2E7F7AD237DC7A732281DD93F32506	fa2a781 65E5871	
Results:	Beginning Image operation for 4301789184 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 4.302 GB (4301789184 bytes) Written : 98.98 MB (98984710 bytes) Total Processed: 4.302 GB (4301789184 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 9m 3s Compression : 97.70% Bad Sectors : 0 SHA-1 Value : 72462489bcf79a98b59b6a8cd938feb46:	fa2a781 65E5871 Actual Result as expected	
Results:	Beginning Image operation for 4301789184 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 4.302 GB (4301789184 bytes) Written : 98.98 MB (98984710 bytes) Total Processed: 4.302 GB (4301789184 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 9m 3s Compression : 97.70% Bad Sectors : 0 SHA-1 Value : 72462489bcf79a98b59b6a8cd938feb46:	fa2a781 65E5871 Actual Result as expected as expected as expected	

Test Case DA-07-F32 ILook IXimager Version 2.0, Feb 01 2006			
	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.	as expected	
		-	
Analysis:	Expected results achieved	·	

5.2.31 DA-07-F32X

Test Case DA-07-F32X ILook IXimager Version 2.0, Feb 01 2006			
Description:	DA-07 Acquire a digital source of type DS to an image file.		
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.		
	AM-02 The tool acquires digital source DS.		
	AM-03 The tool executes in execution environment XE.		
	AM-05 If image file creation is specified, the tool creates an image file		
	on file system type FS.		
	AM-06 All visible sectors are acquired from the digital source.		
	AM-08 All sectors acquired from the digital source are acquired accurately.		
	AO-01 If the tool creates an image file, the data represented by the image		
	file is the same as the data acquired by the tool.		
	AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size.		
	AO-22 If requested, the tool calculates block hashes for a specified block		
	size during an acquisition for each block acquired from the digital source.		
	AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
	AO-24 If the tool executes in a forensically safe execution environment,		
	the digital source is unchanged by the acquisition process.		
The set of	17		
Tester Name: Test Host:	brl Max		
Test Date:	Fri Apr 21 15:51:32 2006		
Drives:	src(44) dst (4D-FU2) other (none)		
Source	src hash: < E196D36E7B322C0EF83923112AD1800581742B6E >		
Setup:	78165360 total sectors (40020664320 bytes)		
_	65534/015/63 (max cyl/hd values)		
	65535/016/63 (number of cyl/hd)		
	IDE disk: Model (WDC WD400JB-00FMA0) serial # (WD-WMAJC1011319)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63		
	2 X 020980890 057175335 1023/000/01 1023/254/63 0F extended		
	3 S 000000063 000032067 1023/001/01 1023/254/63		
	4 x 000032130 002104515 1023/000/01 1023/254/63		
	5 S 000000063 002104452 1023/001/01 1023/254/63		
	6 x 002136645 004192965 1023/000/01 1023/254/63		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other 8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended		
	9 S 000000063 008401932 1023/000/01 1023/254/63		
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended		
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux		
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap		
	14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes 15 027744192 sectors 14205026304 bytes		
	13 02//1112 BECCOID 11203020301 DYCED		

Log Highlights:	IXImager Log file SCSI device sdb: 78165360 512-byte hdwr sectors (40021 MB) SCSI device sdc: 781443888 512-byte hdwr sectors (400099 MB) User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.015/DA07F32X001.asb' Beginning Image operation for 10742183424 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 10.74 GB (10742183424 bytes)		
	Written : 247.0 MB (247043065 bytes) Total Processed: 10.74 GB (10742183424 bytes) Image Speed : 7.934 MB/sec Elapsed Time : 0h 22m 34s		
	Compression : 97.70%		
	Bad Sectors : 0 SHA-1 Value : d190a47b60a17fe6912ca26be237e923ad592fae : for 10742183424 bytes		
	Clearing computer memory		
	Source SHA1 Hash: E196D36E7B322C0EF83923112AD1800581742B6E		
Results:	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	
	AM-02 Source is type DS.	as expected	
	AM-02 Source is type BS. 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.	as expected	
Analysis:	Expected results achieved		
imarioro.	Empedeed reputer defireved		

5.2.32 **DA-07-FLOPPY**

Test Case DA-	07-FLOPPY ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-07 Acquire a digital source of type DS to an image file.	
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.	
	AM-02 The tool acquires digital source DS.	
	AM-03 The tool executes in execution environment XE.	
	AM-05 If image file creation is specified, the tool creates an image file	
	on file system type FS.	
	AM-06 All visible sectors are acquired from the digital source.	
	AM-08 All sectors acquired from the digital source are acquired accurately.	
	AO-01 If the tool creates an image file, the data represented by the image	
	file is the same as the data acquired by the tool.	
	AO-05 If the tool creates a multi-file image of a requested size then all	
	the individual files shall be no larger than the requested size.	
	AO-22 If requested, the tool calculates block hashes for a specified block	
	size during an acquisition for each block acquired from the digital source.	
	AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically safe execution environment,	
	the digital source is unchanged by the acquisition process.	
	the digital source is unchanged by the acquisition process.	
Tester Name:	brl	
Test Host:	JohnSteed	
Test Date:	Wed May 3 09:40:50 2006	
Drives:	src(floppy) dst (4D-FU2) other (none)	
Source	src hash: < E2863334AC7EAABC7C8A0D62EB0D3B3AF29F2C40 >	

Test Case DA-	07-FLOPPY ILook IXimager Version 2.0, Feb 01 2006	
Setup:	Floppy disk	
Log Highlights:	IXImager Log file hda: 156301488 sectors (80026 MB) w/8192KiB Cache, UDMA(100) SCSI device sda: 781443888 512-byte hdwr sectors (4 User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.021/DA07FLOP Beginning Image operation for 1474560 bytes Beginning Image operation Image Complete Image was completed successfully. Read : 1.475 MB (1474560 bytes) Written : 141.8 kB (141815 bytes) Total Processed: 1.475 MB (1474560 bytes) Image Speed : 27.82 kB/sec Elapsed Time : 0h 0m 53s Compression : 90.38% Bad Sectors : 0 SHA-1 Value : e2863334ac7eaabc7c8a0d62eb0d3b3af : for 1474560 bytes Clearing computer memory Source SHA1 Hash: E2863334AC7EAABC7C8A0D62EB0D3B3AF	00099 MB) PY001.asb'
	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.	as expected
		_
Analysis:	Expected results achieved	

5.2.33 **DA-07-HIDDEN**

Test Case DA-	07-HIDDEN ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-07 Acquire a digital source of type DS to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Max
Test Date:	Mon Apr 24 10:52:28 2006

	07-HIDDEN ILook IXimager Version 2.0, Feb 01 2006	
Drives:	src(44) dst (4D-FU2) other (none)	
Source	<pre>src hash: < E196D36E7B322C0EF83923112AD1800581742B6</pre>	E >
Setup:	78165360 total sectors (40020664320 bytes)	
	65534/015/63 (max cyl/hd values)	
	65535/016/63 (number of cyl/hd)	
	IDE disk: Model (WDC WD400JB-00FMA0) serial # (WD-W	
	N Start LBA Length Start C/H/S End C/H/S bo	ot Partition type
	1 P 000000063 020980827 0000/001/01 1023/254/63	0C Fat32X
	2 X 020980890 057175335 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 S 000000063 002104452 1023/001/01 1023/254/63	06 Fat16
	6 x 002136645 004192965 1023/000/01 1023/254/63 7 S 000000063 004192902 1023/001/01 1023/254/63	05 extended 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 010490342 1023/000/01 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 000000000 0000/000/00 0000/000/00	00 empty entry
	17 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	18 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	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	
	SCSI device sdb: 78165360 512-byte hdwr sectors (40 SCSI device sdc: 781443888 512-byte hdwr sectors (4	
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully.	
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully.	
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes)	
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes)	
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes)	
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes)	
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69%	
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0	EN001.asb'
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb'
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9 : for 2146765824 bytes	EN001.asb'
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb'
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb'
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9 : for 2146765824 bytes	EN001.asb'
	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb'
Results:	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb' 390c550 1742B6E
Results:	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb' 390c550 1742B6E Actual Result
Results:	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb' 390c550 1742B6E Actual Result as expected
Results:	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb' 390c550 1742B6E Actual Result as expected as expected as expected
Results:	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb' 390c550 1742B6E Actual Result as expected as expected as expected as expected as expected
Results:	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb' 390c550 1742B6E Actual Result as expected
Results:	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb' 390c550 1742B6E Actual Result as expected
Results:	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb' 390c550 1742B6E Actual Result as expected
Results:	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb' 390c550 1742B6E Actual Result as expected
Results:	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb' 390c550 1742B6E Actual Result as expected
Results:	User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.020/DA07HIDD Beginning Image operation for 2146765824 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 2.147 GB (2146765824 bytes) Written : 49.54 MB (49537184 bytes) Total Processed: 2.147 GB (2146765824 bytes) Image Speed : 7.922 MB/sec Elapsed Time : 0h 4m 31s Compression : 97.69% Bad Sectors : 0 SHA-1 Value : 0893c80edc0e9074fd139b67fb6de3ce9	EN001.asb' 390c550 1742B6E Actual Result as expected

Test Case DA-	07-HIDDEN ILook IXimager Version 2.0, Feb 01 2006		
	AO-24 Source is unchanged by acquisition.	as expected	
Analysis:	Expected results achieved		

5.2.34 DA-07-NT

Test Case DA-	07-NT ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-07 Acquire a digital source of type DS to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Joe
Test Date:	Mon Apr 24 10:38:49 2006
Drives:	src(43) dst (4D-FU2) other (none)
Source Setup:	STC hash: < 888E2ETF7AD237DC7A732281DD93F325065E5871 > 78125000 total sectors (4000000000 bytes)
Log Highlights:	IXImager Log file SCSI device sdb: 78125000 512-byte hdwr sectors (40000 MB) SCSI device sdc: 781443888 512-byte hdwr sectors (400099 MB) User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.019/DA07NT001.asb' Beginning Image operation for 14188575744 bytes

Test Case DA	-07-NT ILook IXimager Version 2.0, Feb 01 2006	
	Beginning Image operation	
	Beginning Image operation	
	Image Complete	
	Image was completed successfully.	
	Read : 14.19 GB (14188575744 bytes) Written : 324.5 MB (324528081 bytes) Total Processed: 14.19 GB (14188575744 bytes) Image Speed : 8.293 MB/sec Elapsed Time : 0h 28m 31s Compression : 97.71% Bad Sectors : 0 SHA-1 Value : 73eb2d27564b060db796efb78694a10e6	
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-01 Source acquired using interface Al. AM-02 Source is type DS.	as expected as expected
	1 0	-
	AM-02 Source is type DS.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE.	as expected as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS.	as expected as expected as expected
	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.	as expected as expected as expected as expected
	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.	as expected
	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.	as expected
	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.	as expected
	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.	as expected option not available
Analysis:	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.	as expected

5.2.35 DA-07-R1

Test Case DA-	07-R1 ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-07 Acquire a digital source of type DS to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	Brl
Test Host:	SamSpade
Test Date:	Tue Jun 27 13:33:33 2006
Drives:	src(A1) dst (2A-FU2) other (none)
Source	src hash: < 229F00E5E9232A47E69E30ED4DCD57F0DFFEA1F7 >
Setup:	4192256 total sectors (2146435072 bytes) 18446744073709551615/063/32 (max cyl/hd values) Model (Logical Disk 2) serial # ()
	N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 004160772 0000/001/01 0258/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00

Test Case DA-	07-R1 ILook IXimager Version 2.0, Feb 01 2006	
	1 004160772 sectors 2130315264 bytes	
	Al is a raid 1 consisting of drives 48 and 49.	
Log Highlights:	IXImager Log file SCSI device sda: 488397168 512-byte hdwr sectors (250059 MB) SCSI device sdb: 4192256 512-byte hdwr sectors (2146 MB) User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.004/DA07R1001.asb' Beginning Image operation for 2146435072 bytes Beginning Image operation Deginning Image operation Opened output file '/ILookImager/ILook.004/DA07R1002.asb' continuing at byte 1488781312 Image is being stored to /ILook.004/DA07R1002.asb Image Complete Image was completed successfully. Read : 2.146 GB (2146435072 bytes) Written : 749.6 MB (749551753 bytes) Total Processed: 2.146 GB (2146435072 bytes) Image Speed : 13.76 MB/sec Elapsed Time : 0h 2m 36s Compression : 65.08% Bad Sectors : 0 SHA-1 Value : 229f00e5e9232a47e69e30ed4dcd57f0dffea1f7 : for 2146435072 bytes Clearing computer memory Source SHA1 Hash: 229F00E5E9232A47E69E30ED4DCD57F0DFFEA1F7	
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
1	AO-05 Multifile image created.	as expected
1	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.	as expected
		<u> </u>
Analysis:	Expected results achieved	

5.2.36 DA-07-R5

Test Case DA-	07-R5 ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-07 Acquire a digital source of type DS to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.
	AM-02 The tool acquires digital source DS.
	AM-03 The tool executes in execution environment XE.
	AM-05 If image file creation is specified, the tool creates an image file
	on file system type FS.
	AM-06 All visible sectors are acquired from the digital source.
	AM-08 All sectors acquired from the digital source are acquired accurately.
	AO-01 If the tool creates an image file, the data represented by the image
	file is the same as the data acquired by the tool.
	AO-05 If the tool creates a multi-file image of a requested size then all
	the individual files shall be no larger than the requested size.
	AO-22 If requested, the tool calculates block hashes for a specified block
	size during an acquisition for each block acquired from the digital source.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment,

Test Case DA-	Test Case DA-07-R5 ILook IXimager Version 2.0, Feb 01 2006	
	the digital source is unchanged by the acquisition	process.
Tester Name:	Brl	
Test Host:	SamSpade	
Test Date:	Tue Jun 27 09:46:00 2006	
Drives:	src(A5) dst (2A-FU2) other (none)	D
Source	src hash: < EEF618B63B5A55893CFB685E20344D9030BBA94	В >
Setup:	12576768 total sectors (6439305216 bytes) 18446744073709551615/063/32 (max cyl/hd values)	
	Model (Logical Disk 0) serial # ()	
	N Start LBA Length Start C/H/S End C/H/S boo	ot Partition type
	1 P 000000063 012546702 0000/001/01 0780/254/63 Boo	
	2 P 000000000 000000000 0000/000/00 0000/000/00	
	3 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	4 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	1 012546702 sectors 6423911424 bytes	
	AF is a Daid F someisting of duitor 40 45 46 and	4.7
	A5 is a Raid 5 consisting of drives 40, 45, 46 and	4 /
Log		
Highlights:	IXImager Log file	
	SCSI device sda: 488397168 512-byte hdwr sectors (2)	
	SCSI device sdb: 12576768 512-byte hdwr sectors (64)	39 MB)
	User selected ILook Default Image Format	
	Initializing Opened output file '/ILookImager/ILook.002/DA07R500	1 agh!
	Beginning Image operation for 6439305216 bytes	1.asb
	Beginning Image operation	
	Beginning Image operation	
	Opened output file '/ILookImager/ILook.002/DA07R500	2.asb'
	continuing at byte 2048327680	
	Image is being stored to /ILook.002/DA07R5002.asb	
	Image Complete	
	Image was completed successfully.	
	Read : 6.439 GB (6439305216 bytes)	
	Written : 1.019 GB (1019166787 bytes)	
	Total Processed: 6.439 GB (6439305216 bytes)	
	Image Speed : 13.85 MB/sec	
	Elapsed Time : 0h 7m 45s	
	Compression : 84.17%	
	Bad Sectors : 0	-1.1
	SHA-1 Value : eef618b63b5a55893cfb685e20344d903	0bba94b
	: for 6439305216 bytes Clearing computer memory	
	crearing compacer memory	
	Source SHA1 Hash: EEF618B63B5A55893CFB685E20344D903	0BBA94B
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.	as expected
Analysis	Exposted results ashioved	
Analysis:	Expected results achieved	

5.2.37 DA-07-SWAP

Test Case DA-	07-SWAP ILook IXimager Version 2.0, Feb 01 2006
Description:	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.

Test Case DA-	07-SWAP ILook IXimager Version 2.0, Feb 01 2006		
Test case DA-	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:	brl		
Test Host:	Max		
Test Date:	Mon Apr 24 10:16:22 2006		
Drives:	src(44) dst (4D-FU2) other (none)		
Source	src hash: < E196D36E7B322C0EF83923112AD1800581742B6E >		
Setup:	78165360 total sectors (40020664320 bytes) 65534/015/63 (max cyl/hd values)		
	65535/016/63 (number of cyl/hd)		
	IDE disk: Model (WDC WD400JB-00FMA0) serial # (WD-WMAJC1011319)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63		
	2 X 020980890 057175335 1023/000/01 1023/254/63		
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12		
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended 5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other		
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended		
	9 S 000000063 008401932 1023/001/01 1023/254/63		
	10 x 014731605 010490445 1023/000/01 1023/254/63		
	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 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	3 000032067 sectors 10742163424 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		
	13 02//44132 Sectors 14203020304 Bytes		
Log			
Highlights:	IXImager Log file SCSI device sdb: 78165360 512-byte hdwr sectors (40021 MB)		
	SCSI device sdb: 78165360 512-byte ndwr sectors (40021 MB) SCSI device sdc: 781443888 512-byte hdwr sectors (400099 MB)		
	User selected ILook Default Image Format		
	Initializing		
	Opened output file '/ILookImager/ILook.017/DA07SWAP001.asb'		
	Beginning Image operation for 2154991104 bytes		
	Beginning Image operation		
	Beginning Image operation		
	Image Complete Image was completed successfully.		
	imago nas compresed successfury.		
	Read : 2.155 GB (2154991104 bytes)		
	Written : 49.74 MB (49737188 bytes)		
	Total Processed: 2.155 GB (2154991104 bytes)		
	Image Speed : 7.923 MB/sec Elapsed Time : 0h 4m 32s		

Test Case DA-	07-SWAP ILook IXimager Version 2.0, Feb 01 2006	
	Bad Sectors : 0 SHA-1 Value : 7bdd19b23e43ab62042fbf47fad69bb878flec6a : for 2154991104 bytes Clearing computer memory Source SHA1 Hash: E196D36E7B322C0EF83923112AD1800581742B6E	
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.	as expected
Analysis:	Expected results achieved	
Anarysis:	Expected results achieved	

5.2.38 DA-07-X2

Test Case DA-	07-X2 ILook IXimager Version 2.0, Feb 01 2006			
Description:	DA-07 Acquire a digital source of type DS to an image file.			
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.			
	AM-02 The tool acquires digital source DS.			
	AM-03 The tool executes in execution environment XE.			
	AM-05 If image file creation is specified, the tool creates an image file			
	on file system type FS.			
	AM-06 All visible sectors are acquired from the digital source.			
	AM-08 All sectors acquired from the digital source are acquired accurately.			
	AO-01 If the tool creates an image file, the data represented by the image			
	file is the same as the data acquired by the tool.			
	AO-05 If the tool creates a multi-file image of a requested size then all			
	the individual files shall be no larger than the requested size.			
	AO-22 If requested, the tool calculates block hashes for a specified block			
	size during an acquisition for each block acquired from the digital source.			
	AO-23 If the tool logs any log significant information, the information is			
	accurately recorded in the log file.			
	AO-24 If the tool executes in a forensically safe execution environment,			
	the digital source is unchanged by the acquisition process.			
Tester Name:	brl			
Test Host:	Joe			
Test Date:	Fri Apr 21 16:53:30 2006			
Drives:	src(43) dst (4D-FU2) other (none)			
Source	src hash: < 888E2E7F7AD237DC7A732281DD93F325065E5871 >			
Setup:	78125000 total sectors (40000000000 bytes)			
	Model (0BB-75JHC0) serial # (WD-WMAMC46588)			
	N Start LBA Length Start C/H/S End C/H/S boot Partition type			
	1 P 000000063 020980827 0000/001/01 1023/254/63			
	2 X 020980890 057143205 1023/000/01 1023/254/63			
	3 S 000000063 000032067 1023/001/01 1023/254/63			
	4 x 000032130 002104515 1023/000/01 1023/254/63			
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended			
	6 x 002136645 004192965 1023/000/01 1023/254/63			
	8 x 006329610 008401995 1023/000/01 1023/254/63			
	9 S 000000063 008401932 1023/001/01 1023/254/63			
	10 x 014731605 010490445 1023/000/01 1023/254/63 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 000000000 000000000 0000/000/00 0000/000 00			

Test Case DA-	07-X2 ILook IXimager Version 2.0, Feb 01 2006	
	17 P 000000000 000000000 0000/000/00 0000/000/00 18 P 00000000 00000000 0000/000/00 0000/000/00 1 020980827 sectors 10742183424 bytes 3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes 7 00419202 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes 15 027712062 sectors 14188575744 bytes	00 empty entry 00 empty entry
Log Highlights:	IXImager Log file SCSI device sdb: 78125000 512-byte hdwr sectors (40000 MB) SCSI device sdc: 781443888 512-byte hdwr sectors (400099 MB) User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.016/DA07X2001.asb' Beginning Image operation for 5371075584 bytes Beginning Image operation Image Complete Image was completed successfully. Read : 5.371 GB (5371075584 bytes) Written : 125.1 MB (125099895 bytes) Total Processed: 5.371 GB (5371075584 bytes) Image Speed : 7.934 MB/sec Elapsed Time : 0h 11m 17s Compression : 97.67% Bad Sectors : 0 SHA-1 Value : 283bcc32de892c12c37698af7e38703619e57f57	
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. AO-24 Source is unchanged by acquisition.	Actual Result as expected
Analysis:	Expected results achieved	

5.2.39 DA-08-ATA28

Test Case DA-	08-ATA28 ILook IXimager Version 2.0, Feb 01 2006	
Description:	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.	

Test Case DA-	08-ATA28 ILook IXimager Version 2.0, Feb 01 2006		
	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:	Brl		
Test Host:	Joe		
Test Date:	Thu May 25 15:03:06 2006		
Drives:	src(42) dst (4D-FU2) other (none)		
Source Setup:	<pre>src hash: < 5A75399023056E0EB905082B35F8FAA1DB049229 > 78165360 total sectors (40020664320 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd)</pre>		
	IDE disk: Model (WDC WD400JB-00JJC0) serial # (WD-W N Start LBA Length Start C/H/S End C/H/S bo 1 P 000000063 070348572 0000/001/01 1023/254/63 Bo 2 P 000000000 000000000 0000/000/00 0000/000/00	ot Partition type ot 07 NTFS 00 empty entry 00 empty entry	
	HPA created BIOS, XBIOS and Direct disk geometry Reporter (BXDR BXDR 128 /S70000000 /P /fbxdrlog.txt Setting Maximum Addressable Sector to 70000000 MAS now set to 70000000)	
Log Highlights:	Setting Maximum Addressable Sector to 70000000 MAS now set to 70000000 IXImager Log file hda: 70000001 sectors (35840 MB) w/8192KiB Cache, CHS=65535/16/63, UDMA(100) SCSI device sdb: 781443888 512-byte hdwr sectors (400099 MB) Maximum HPA address: /dev/hda: 78165360 (40.02 GB) An HPA area hiding 4.181 GB has been detected on Hard Drive device '/dev/hda'. Unless this HPA is disabled, the imaged the HPA. Would you like to disable the HPA so the IXimager can obtain the additional data hidden within the HPA area? User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.035/DA08ATA28001.asb' Beginning Image operation Beginning Image operation Opened output file '/ILookImager/ILook.035/DA08ATA28002.asb' continuing at byte 1281622016 Image is being stored to /ILook.035/DA08ATA28002.asb Opened output file '/ILookImager/ILook.035/DA08ATA28003.asb' continuing at byte 22366126080 Image is being stored to /ILook.035/DA08ATA28003.asb' Image Complete Image was completed successfully. Read : 40.02 GB (40020664320 bytes) Written : 1.702 GB (1702413859 bytes) Total Processed: 40.02 GB (40020664320 bytes) Image Speed : 25.22 MB/sec Elapsed Time : 0h 26m 27s Compression : 95.75% Bad Sectors : 0 SHA-1 Value : 5a75399023056e0eb905082B35F8FaA1DB049229 : for 40020664320 bytes Clearing computer memory Source SHA1 Hash: 5A75399023056E0EB905082B35F8FAA1DB049229		
Results:	Assertion & Expected Pegult	Actual Pagult	
	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI. AM-02 Source is type DS.	as expected as expected	
	AM-03 Execution environment is XE.	as expected	
	I I I I I I I I I I I I I I I I I I I		

Test Case DA-08-ATA28 ILook IXimager Version 2.0, Feb 01 2006		
	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.	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.	as expected
Analysis:	Expected results achieved	·

5.2.40 DA-08-ATA48

Test Case DA-	08-ATA48 ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-08 Acquire a physical drive with hidden sectors to an image file.
Tester Name:	brl
Test Host:	Max
Test Date:	Thu May 25 15:17:34 2006
Drives:	src(4B) dst (4D-FU2) other (none)
Source Setup:	<pre>src hash: < F409920836FED76DBB60DEEEF467A6DDED5BF48E > 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 000000063 351646722 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00</pre>
Log Highlights:	IXImager Log file hda: 351000001 sectors (179712 MB) w/8192KiB Cache, CHS=21848/255/63, UDMA(100) SCSI device sdb: 781443888 512-byte hdwr sectors (400099 MB) Maximum HPA address: /dev/hda: 390721968 (200.0 GB) An HPA area hiding 20.34 GB has been detected on Hard Drive device '/dev/hda'. Unless this HPA is disabled, the imaged the HPA. Would you like to disable the HPA so the IXimager can obtain the additional data hidden within the HPA area? User selected ILook Default Image Format Initializing

Test Case DA-08-ATA48 ILook IXimager Version 2.0, Feb 01 2006			
	Opened output file '/ILookImager/ILook.036/da08ata48001.asb'		
	Beginning Image operation for 200049647616 bytes		
	Beginning Image operation		
	Beginning Image operation		
	Opened output file '/ILookImager/ILook.036/da08ata48002.asb'		
	continuing at byte 1263861760		
	Image is being stored to /ILook.036/da08ata48002.asb		
	Opened output file '/ILookImager/ILook.036/da08ata4 continuing at byte 22317760512	8003.asp'	
	Image is being stored to /ILook.036/da08ata48003.as	h	
	Opened output file '/ILookImager/ILook.036/da08ata4	8004.ash!	
	continuing at byte 50487296000	0001.452	
	Image is being stored to /ILook.036/da08ata48004.as	b	
	Opened output file '/ILookImager/ILook.036/da08ata4	8005.asb'	
	continuing at byte 78653292544		
	Image is being stored to /ILook.036/da08ata48005.as		
	Opened output file '/ILookImager/ILook.036/da08ata4	8006.asb'	
	continuing at byte 106816536576		
	Image is being stored to /ILook.036/da08ata48006.as		
	Opened output file '/ILookImager/ILook.036/da08ata4 continuing at byte 134982467584	δυυ/.asp'	
	Image is being stored to /ILook.036/da08ata48007.as	b	
	Opened output file '/ILookImager/ILook.036/da08ata4		
	continuing at byte 163148464128	0000.422	
	Image is being stored to /ILook.036/da08ata48008.as	b	
	Opened output file '/ILookImager/ILook.036/da08ata4	8009.asb'	
	continuing at byte 191314460672		
	Image is being stored to /ILook.036/da08ata48009.as	b	
	Image Complete		
	Image was completed successfully.		
	Read : 200.0 GB (200049647616 bytes)		
	Read : 200.0 GB (200049647616 bytes) Written : 5.385 GB (5385219933 bytes)		
	Total Processed: 200.0 GB (200049647616 bytes)		
	Image Speed : 26.23 MB/sec		
	Elapsed Time : 2h 7m 6s		
	Compression : 97.31%		
	Bad Sectors : 0		
	SHA-1 Value : f409920836fed76dbb60deeef467a6dde	d5bf48e	
	: for 200049647616 bytes		
	Clearing computer memory		
	G	D.C.D.T.4.0.T.	
	Source SHA1 Hash: F409920836FED76DBB60DEEEF467A6DDE	DSBF48E	
Results:			
Resules.	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	
	AM-02 Source is type DS.	as expected	
	AM-03 Execution environment is XE.	as expected	
	AM-05 An image is created on file system type FS.	as expected	
	AM-06 All visible sectors acquired.	as expected	
	AM-07 All hidden sectors acquired.	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. as expected		
Analysis:	Expected results achieved		

5.2.41 DA-08-DCO

Test Case DA-08-DCO ILook IXimager Version 2.0, Feb 01 2006		
Case	DA-08 Acquire a physical drive with hidden sectors to an image file.	
Summary:		
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.	
	AM-02 The tool acquires digital source DS.	
	AM-03 The tool executes in execution environment XE.	

Test Case DA-08-DCO ILook IXimager Version 2.0, Feb 01 2006			
Test Case DA-	AM-05 If image file creation is specified, the tool	creates an image file	
	on file system type FS.	creaces an image rite	
	AM-06 All visible sectors are acquired from the dig	ital source	
	AM-07 All hidden sectors are acquired from the digi		
	AM-08 All sectors acquired from the digital source		
	AO-01 If the tool creates an image file, the data re		
	file is the same as the data acquired by the tool.	eprebenced by the image	
	AO-05 If the tool creates a multi-file image of a re	equested size then all	
	the individual files shall be no larger than the re-		
	AO-22 If requested, the tool calculates block hashes		
	size during an acquisition for each block acquired:		
	AO-23 If the tool logs any log significant informat		
	accurately recorded in the log file.		
	AO-24 If the tool executes in a forensically safe ex	xecution environment.	
	the digital source is unchanged by the acquisition		
Tester	brl		
Name:			
Test Host:	McCloud		
Test Date:	Thu Oct 12 14:22:38 2006		
Drives:	src(92) dst (50-IDE) other (none)		
Source	<pre>src hash: < 63E6F7BD3040A8ADA2CF8FBF66A805B76DF1048</pre>	1 >	
Setup:	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-WI		
		ot Partition type	
	1 P 000000063 058605057 0000/001/01 1023/254/63 Boo		
	2 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry	
	3 P 000000000 000000000 0000/000/00 0000/000/00		
	4 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry	
	1 058605057 sectors 30005789184 bytes		
	After DCO Created:		
	52770010 Sectors, 27018245120		
	src with DCO hash: 55A3CFE756B7B0034DCCE71F7D7A477D	8681B781	
T 00			
Log Highlights:	IXImager Log file		
1119111191100.	hda: 52770010 sectors (27018 MB) w/2048KiB Cache, Cl	HS=3284/255/63.	
	UDMA (100)	120 1, 200, 00,	
	hdb: 156301488 sectors (80026 MB) w/8192KiB Cache,	CHS=9729/255/63.	
	UDMA (100)		
	User selected ILook Default Image Format		
	Initializing		
	Opened output file '/ILookImager/ILook.038/da08dco0	01.asb'	
	Beginning Image operation for 30020272128 bytes		
	Beginning Image operation		
	Beginning Image operation		
	Opened output file '/ILookImager/ILook.038/da08dco0	02.asb'	
	continuing at byte 1256980480		
	Image is being stored to /ILook.038/da08dco002.asb		
	Opened output file '/ILookImager/ILook.038/da08dco0	03.asb'	
	continuing at byte 24723062784		
	Image is being stored to /ILook.038/da08dco003.asb		
	Image Complete		
	Image was completed successfully.		
	Read : 30.02 GB (30020272128 bytes)		
	Written : 1.418 GB (1418092899 bytes)		
	Total Processed: 30.02 GB (30020272128 bytes)		
	Image Speed : 14.57 MB/sec		
	Elapsed Time : Oh 34m 21s		
	Compression : 95.28%		
	Bad Sectors : 0		
	SHA-1 Value : 63e6f7bd3040a8ada2cf8fbf66a805b766	df10481	
	: for 30020272128 bytes		
	Clearing computer memory		
	Source SHA1 Hash: 55A3CFE756B7B0034DCCE71F7D7A477D8	681B781	
Results:	Assertion & Expected Result	Actual Result	

Test Case DA-0	08-DCO ILook IXimager Version 2.0, Feb 01 2006	
	am-01 Source acquired using interface AI.	as expected
	am-02 Source is type DS.	as expected
	am-03 Execution environment is XE.	as expected
	am-05 An image is created on file system type FS.	as expected
	am-06 All visible sectors acquired.	as expected
	am-07 All hidden sectors acquired.	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.	as expected
Analysis:	Expected results achieved	

5.2.42 DA-09

Test Case DA-09 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-09 Acquire a digital source that has at least one faulty data sector.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.
	AM-02 The tool acquires digital source DS.
	AM-03 The tool executes in execution environment XE.
	AM-05 If image file creation is specified, the tool creates an image file
	on file system type FS.
	AM-06 All visible sectors are acquired from the digital source.
	AM-08 All sectors acquired from the digital source are acquired accurately.
	AM-09 If unresolved errors occur while reading from the selected digital
	source, the tool notifies the user of the error type and location within
	the digital source.
	AM-10 If unresolved errors occur while reading from the selected digital
	source, the tool uses a benign fill in the destination object in place of
	the inaccessible data.
	AO-01 If the tool creates an image file, the data represented by the image
	file is the same as the data acquired by the tool.
	AO-05 If the tool creates a multi-file image of a requested size then all
	the individual files shall be no larger than the requested size.
	AO-22 If requested, the tool calculates block hashes for a specified block
	size during an acquisition for each block acquired from the digital source.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment,
	the digital source is unchanged by the acquisition process.
	the digital source is unchanged by the acquisition process.
Tester Name:	Brl
Test Host:	Frank
Test Date:	Tue Jun 27 15:37:17 2006
Drives:	src(BE) dst (OB) other (BF)
Source	No before hash for be total sectors (bytes)
Setup:	Drive with known bad sectors
_	Vendor: WDC WD20 Model: 00JB-00GVC0 Rev: 08.0
	390721968 512-byte hdwr sectors (200050 MB)
	- · · · · · · · · · · · · · · · · · · ·
	Bad sectors present on drive: 0, 512, 1024-1025, 2048-2050, 4096-4099,
	195360979-195360983, 195360985-195360989, 390721967
Log	
Highlights:	Comparision of original to clone
	Sectors compared: 390721968
	Sectors match: 390721946
	Sectors differ: 22
	Bytes differ: 10941
	Diffs range 0, 512, 1024-1025, 2048-2050, 4096-4099,
	195360979-195360983, 195360985-195360989, 390721967
	Source (390721968) has 97675200 fewer sectors than destination (488397168)
	Zero fill: 0
	Src Byte fill (BF): 0
L	

```
Test Case DA-09 ILook IXimager Version 2.0, Feb 01 2006
              Dst Byte fill (OB): 97675200
              Other fill:
              Other no fill:
                                          0
              Zero fill range:
              Src fill range:
              Dst fill range: 390721968-488397167
              Other fill range:
              Other not filled range:
              O source read errors, O destination read errors
              IXImager Log file
              hda: 390721968 sectors (200049 MB) w/8192KiB Cache, CHS=24321/255/63,
              UDMA (100)
               hda:hda (dev 03:00): I/O error reading 8 sectors, sector 0
              atal: dev 0 ATA-6, max UDMA/100, 488397168 sectors: LBA48
              SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB)
              SCSI device sdb: 488397168 512-byte hdwr sectors (250059 MB)
              hda: 390721968 sectors (200049 MB) w/8192KiB Cache, CHS=24321/255/63,
              UDMA (100)
               hda:hda (dev 03:00): I/O error reading 8 sectors, sector 0
               sda:/dev/sda: I/O error reading 8 sectors, sector 0
              /dev/sda: I/O error reading 8 sectors, sector 0
               sda:/dev/sda: I/O error reading 8 sectors, sector 0
              /dev/sda: I/O error reading 8 sectors, sector 0
               sda:/dev/sda: I/O error reading 8 sectors, sector 0
              /dev/sda: I/O error reading 8 sectors, sector 0
              Initializing...
              Opened input device '/dev/hda'
              Opened output device '/dev/sdb'
              Beginning Clone operation for 200049647616 bytes
              Beginning Clone operation
              Beginning Clone operation
              Bad sector: position 0 (sector 0)
              Bad sector: position 262144 (sector 512)
              Bad sector: position 524288 (sector 1024)
              Bad sector: position 524800 (sector 1025)
              Bad sector: position 1048576 (sector 2048)
              Bad sector: position 1049088 (sector 2049)
              Bad sector: position 1049600 (sector 2050)
              Bad sector: position 2097152 (sector 4096)
              Bad sector: position 2097664 (sector 4097)
              Bad sector: position 2098176 (sector 4098)
              Bad sector: position 2098688 (sector 4099)
              Bad sector: position 100024821248 (sector 195360979)
              Bad sector: position 100024821760 (sector 195360980)
              Bad sector: position 100024822272 (sector 195360981)
              Bad sector: position 100024822784 (sector 195360982)
              Bad sector: position 100024823296 (sector 195360983)
              Bad sector: position 100024824320 (sector 195360985)
              Bad sector: position 100024824832 (sector 195360986)
              Bad sector: position 100024825344 (sector 195360987)
              Bad sector: position 100024825856 (sector 195360988)
              Bad sector: position 100024826368 (sector 195360989)
              Bad sector: position 200049647104 (sector 390721967)
              Clone Complete
              Clone was completed successfully.
                             : 200.0 GB (200049647616 bytes)
              Written : 200.0 GB (200049647616 bytes)
Total Processed: 200.0 GB (200049647616 bytes)
              Clone Speed : 49.15 MB/sec
              Elapsed Time
                            : 1h 7m 50s
              Bad Sectors
                             : 22
              Clearing computer memory...
              Initializing...
              Opened input device '/dev/hda', continuing at byte 0
              Beginning Verify operation for 200049647616 bytes
              Bad sector: position 0 (sector 0)
              Bad sector: position 262144 (sector 512)
              Bad sector: position 524288 (sector 1024)
              Bad sector: position 524800 (sector 1025)
              Bad sector: position 1048576 (sector 2048)
```

Test Case DA-	09 ILook IXimager Version 2.0, Feb 01 2006		
Test Case DA-	Bad sector: position 1049088 (sector 2049) Bad sector: position 1049600 (sector 2050) Bad sector: position 2097152 (sector 4096) Bad sector: position 2097664 (sector 4097) Bad sector: position 2098176 (sector 4098) Bad sector: position 2098888 (sector 4099) Bad sector: position 100024821248 (sector 195360979) Bad sector: position 100024821248 (sector 195360980) Bad sector: position 10002482272 (sector 195360981) Bad sector: position 100024822784 (sector 195360982) Bad sector: position 100024823296 (sector 195360982) Bad sector: position 100024823296 (sector 195360983) Bad sector: position 100024823296 (sector 195360985) Bad sector: position 100024824320 (sector 195360986) Bad sector: position 100024825344 (sector 195360987) Bad sector: position 100024825856 (sector 195360989) Bad sector: position 100024825866 (sector 195360989) Bad sector: position 200049647104 (sector 390721967) Verify Complete Verify was completed successfully. Read		
Results:			
	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	
	AM-02 Source is type DS.	as expected	
	AM-03 Execution environment is XE.	as expected	
	AM-05 An image is created on file system type FS.	as expected	
	AM-06 All visible sectors acquired.	as expected	
	AM-08 All sectors accurately acquired.	as expected	
	AM-09 Error logged.	as expected	
	AM-10 Benign fill replaces inaccessible sectors.	as expected	
	AO-01 Image file is complete and accurate.	as expected	
	AO-05 Multifile image created.	as expected	
	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.	as expected	
_			
Analysis:	Expected results achieved		

5.2.43 DA-10-ENCRYPTED

Test Case DA-	10-ENCRYPTED ILook IXimager Version 2.0, Feb 01 2006	
Description:	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 access the digital source.	
	AM-02 The tool acquires digital source DS.	
	AM-03 The tool executes in execution environment XE.	
	AM-05 If image file creation is specified, the tool creates an image file	
	on file system type FS.	
	AM-06 All visible sectors are acquired from the digital source.	
	AM-08 All sectors acquired from the digital source are acquired accurately.	
	AO-01 If the tool creates an image file, the data represented by the image	
	file is the same as the data acquired by the tool.	
	AO-02 If an image file format is specified, the tool creates an image file	
	in the specified format.	
	AO-05 If the tool creates a multi-file image of a requested size then all	
	the individual files shall be no larger than the requested size.	
	AO-22 If requested, the tool calculates block hashes for a specified block	
	size during an acquisition for each block acquired from the digital source.	
	AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file.	

Test Case DA-	10-ENCRYPTED ILook IXimager Version 2.0, Feb 01 2006	
	AO-24 If the tool executes in a forensically safe ex	· · · · · · · · · · · · · · · · · · ·
	the digital source is unchanged by the acquisition	process.
Master News	land 1	
Tester Name:	brl	
Test Host: Test Date:	Joe Thu May 4 09:09:57 2006	
Drives:	src(2A) dst (4D-FU2) other (none)	
Source	src hash: < F5F9F2903DCAB895F36E270FB22A722E2791812	5 >
Setup:	17783249 total sectors (9105023488 bytes)	
	Model (QM39100TD-SCA) serial # (PCB=20-116711-06 N Start LBA Length Start C/H/S End C/H/S bo 1 P 000000063 017751762 0000/001/01 1023/254/63 Bo 2 P 000000000 000000000 0000/000/00 0000/000/00 3 P 000000000 000000000 0000/000/00 0000/000/00 4 P 000000000 000000000 0000/000/00 0000/000/00 1 017751762 sectors 9088902144 bytes	ot Partition type ot 07 NTFS 00 empty entry
Log Highlights:	IXImager Log file SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB) SCSI device sdc: 781443888 512-byte hdwr sectors (400099 MB) User selected ILook Encrypted Image Format Initializing Opened output file '/ILookImager/ILook.023/DA10ENCRYPTED001.asb' Beginning Image operation for 9105023488 bytes Beginning Image operation Beginning Image operation Image Complete Image was completed successfully. Read : 9.105 GB (9105023488 bytes) Written : 609.1 MB (609137424 bytes) Total Processed: 9.105 GB (9105023488 bytes) Image Speed : 11.98 MB/sec Elapsed Time : 0h 12m 40s Compression : 93.31% Bad Sectors : 0 SHA-1 Value : f5f9f2903dcab895f36e270fb22a722e27918125 : for 9105023488 bytes Clearing computer memory	
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 as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-02 Image file in specified format.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analygia	Exposted results ashioved	
Analysis:	Expected results achieved	

5.2.44 DA-10-RAW

Test Case DA-10-RAW ILook IXimager Version 2.0, Feb 01 2006		
Description:	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 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.	

Test Case DA-10-RAW ILook IXimager Version 2.0, Feb 01 2006		
Test Case DA-	AM-06 All visible sectors are acquired from the digital source.	
	AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-02 If an image file format is specified, the tool creates an image file	
	in the specified format. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.	
Tester Name:	brl	
Test Host:	Joe	
Test Date:	Fri Jun 2 14:09:15 2006	
Drives: Source	<pre>src(2A) dst (4D-FU2) other (none) src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 ></pre>	
Setup:	17783249 total sectors (9105023488 bytes) Model (QM39100TD-SCA) serial # (PCB=20-116711-06 HDAQM39100TD-SCA) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 017751762 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 3 P 000000000 000000000 0000/000/00 0000/000/00 4 P 000000000 000000000 0000/000/00 0000/000/00 1 017751762 sectors 9088902144 bytes	
Log Highlights:	IXImager Log file SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB)	
	SCSI device sdc: 781443888 512-byte hdwr sectors (400099 MB) User selected ILook Raw Image Format Initializing Opened output file '/ILookImager/ILook.022/DA10RAW001.asb' Beginning Image operation for 9105023488 bytes	
	Beginning Image operation Beginning Image operation Opened output file '/ILookImager/ILook.022/DA10RAW002.asb'	
	continuing at byte 648740864 Image is being stored to /ILook.022/DA10RAW002.asb Opened output file '/ILookImager/ILook.022/DA10RAW003.asb'	
	continuing at byte 1295450112 Image is being stored to /ILook.022/DA10RAW003.asb Opened output file '/ILookImager/ILook.022/DA10RAW004.asb'	
	continuing at byte 1942159360 Image is being stored to /ILook.022/DA10RAW004.asb Opened output file '/ILookImager/ILook.022/DA10RAW005.asb'	
continuing at byte 2588868608 Image is being stored to /ILook.022/DA10RAW005.asb Opened output file '/ILookImager/ILook.022/DA10RAW006.asb'		
	continuing at byte 3235577856 Image is being stored to /ILook.022/DA10RAW006.asb Opened output file '/ILookImager/ILook.022/DA10RAW007.asb'	
	continuing at byte 3882287104 Image is being stored to /ILook.022/DA10RAW007.asb Opened output file '/ILookImager/ILook.022/DA10RAW008.asb'	
	continuing at byte 4528996352 Image is being stored to /ILook.022/DA10RAW008.asb	
	Opened output file '/ILookImager/ILook.022/DA10RAW009.asb' continuing at byte 5175705600 Image is being stored to /ILook.022/DA10RAW009.asb	
	Opened output file '/ILookImager/ILook.022/DA10RAW010.asb' continuing at byte 5822414848 Image is being stored to /ILook.022/DA10RAW010.asb	
	Opened output file '/ILookImager/ILook.022/DA10RAW011.asb' continuing at byte 6469124096	
	Image is being stored to /ILook.022/DA10RAW011.asb Opened output file '/ILookImager/ILook.022/DA10RAW012.asb' continuing at byte 7115833344	
	Image is being stored to /ILook.022/DA10RAW012.asb Opened output file '/ILookImager/ILook.022/DA10RAW013.asb'	

Test Case DA-	10-RAW ILook IXimager Version 2.0, Feb 01 2006	
	continuing at byte 7762542592 Image is being stored to /ILook.022/DA10RAW013.asb Opened output file '/ILookImager/ILook.022/DA10RAW0 continuing at byte 8409251840 Image is being stored to /ILook.022/DA10RAW014.asb Opened output file '/ILookImager/ILook.022/DA10RAW014.asb Opened output file '/ILookImager/ILook.022/DA10RAW015 continuing at byte 9055961088 Image is being stored to /ILook.022/DA10RAW015.asb Image Complete Image was completed successfully. Read : 9.105 GB (9105023488 bytes) Written : 9.123 GB (9122743904 bytes) Total Processed: 9.105 GB (9105023488 bytes) Image Speed : 10.65 MB/sec Elapsed Time : 0h 14m 15s Bad Sectors : 0 SHA-1 Value : f5f9f2903dcab895f36e270fb22a722e2 : for 9105023488 bytes Clearing computer memory Source SHA1 Hash: F5F9F2903DCAB895F36E270FB22A722E2	15.asb' 7918125
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
1	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	
TITICAL A DITIO.	I hapeceed results deliteved	

5.2.45 DA-12

Test Case DA-	12 ILook IXimager Version 2.0, Feb 01 2006		
Description:	DA-12 Attempt to create an image file where there is insufficient space.		
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.		
	AO-04 If the tool is creating an image file and there is insufficient space		
	on the image destination device to contain the image file, the tool shall		
	notify the user.		
	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:	brl		
Test Host:	Max		
Test Date:	11777		
Drives:	Thu May 4 16:59:09 2006 src(07) dst (8E-FU2) other (none)		
Source	src hash: < 655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52E>		
Setup:	156301488 total sectors (80026361856 bytes)		
secup:	Model (WDC WD800JD-32HK)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 156280257 0000/001/01 1023/254/63 Boot 07 NTFS		
	2 P 000000000 000000000 0000/000/00 0000/000/00 00		
	3 P 000000000 000000000 0000/000/00 0000/000/00 00		
	4 P 000000000 000000000 0000/000/00 0000/000/00 00		

Test Case DA-12 ILook IXimager Version 2.0, Feb 01 2006		
	1 156280257 sectors 80015491584 bytes	
T 0.00		
Log Highlights:	IXImager Log file atal: dev 0 ATA-6, max UDMA/133, 156301488 sectors: SCSI device sdb: 156301488 512-byte hdwr sectors (8 SCSI device sdc: 78140160 512-byte hdwr sectors (40 User selected ILook Default Image Format Initializing It appears your target device is significantly smal device. Even though you have compression enabled t that everything will compress to fit on your select you choose to continue this operation, when your ta - you will need to change the output media to compl	0026 MB) 008 MB) ler then your source here is no guarantee ed target device. If rget device becomes full
	Would you like to continue this operation anyway? User selected: Yes Opened output file '/ILookImager/ILook.001/DA12001. Beginning Image operation for 80026361856 bytes Beginning Image operation Beginning Image operation Opened output file '/ILookImager/ILook.001/DA12002. continuing at byte 1287651328 Image is being stored to /ILook.001/DA12002.asb Opened output file '/ILookImager/ILook.001/DA12003. continuing at byte 22496018432 Image is being stored to /ILook.001/DA12003.asb Scanning for devices. Please wait User entered the Select Next Output Device Menu Do you really want to abort this operation? User selected: Yes Image Aborted Image was aborted.	asb'
	Read : 50.66 GB (50659196928 bytes) Written : 1.944 GB (1944057180 bytes) Total Processed: 50.66 GB (50659131392 bytes) Expected Size : 80.03 GB (80026361856 bytes) Image Speed : 13.59 MB/sec Elapsed Time : 1h 2m 9s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: 655E9BDDB36A3F9C5C4CC8BF32B8C5B41	AF9F52E
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. AO-04 User notified if space exhausted. AO-23 Logged information is correct. AO-24 Source is unchanged by acquisition.	Actual Result as expected
Analysis:	Expected results achieved	

5.2.46 DA-13

Test Case DA-	13 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-13 Create an image file where there is insufficient space on a single	
	volume, and use destination device switching to continue on another volume.	
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.	

Test Case DA-	13 ILook IXimager Version 2.0, Feb 01 2006
TEBE Case DA-	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-04 If the tool is creating an image file and there is insufficient 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 all
	the individual files shall be no larger than the requested size. 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-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: Test Host:	brl Joe
Test Date:	Fri May 5 13:59:05 2006
Drives:	src(07) dst (8F-FU2) other (8D-FU2)
Source	src hash: < 655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52E>
Setup:	156301488 total sectors (80026361856 bytes) Model (WDC WD800JD-32HK) serial # (WD-WMAJ91510044) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 156280257 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 3 P 000000000 000000000 0000/000/00 0000/000/00 4 P 000000000 000000000 0000/000/00 0000/000/00 00 empty entry 4 P 000000000 000000000 0000/000/00 0000/000/00 00 empty entry
Log	1 156280257 sectors 80015491584 bytes
Highlights:	IXImager Log file ata2: dev 0 ATA-6, max UDMA/133, 156301488 sectors: LBA SCSI device sdb: 156301488 512-byte hdwr sectors (80026 MB) SCSI device sdc: 78140160 512-byte hdwr sectors (40008 MB) SCSI device sdd: 781422768 512-byte hdwr sectors (400088 MB) User selected ILook Default Image Format Initializing
	It appears your target device is significantly smaller then your source device. Even though you have compression enabled there is no guarantee that everything will compress to fit on your selected target device. If you choose to continue this operation, when your target device becomes full - you will need to change the output media to complete the operation.
	Would you like to continue this operation anyway? User selected: Yes
	Opened output file '/ILookImager/ILook.001/DA13001.asb' Beginning Image operation for 80026361856 bytes Beginning Image operation
	Beginning Image operation Opened output file '/ILookImager/ILook.001/DA13002.asb' continuing at byte 1287585792
	Image is being stored to /ILook.001/DA13002.asb Opened output file '/ILookImager/ILook.001/DA13003.asb' continuing at byte 22494773248
	Image is being stored to /ILook.001/DA13003.asb Scanning for devices. Please wait
	User entered the Select Next Output Device Menu Scanning for devices. Please wait Please wait while I check for media
	Checking target device User selected device '/dev/sdd' for output Making an image of /dev/sdb
	A 80.03 GB WDC WD800JD-32HK Hard Drive Image is being stored to /dev/sdd1
	A 400.1 GB Win95 FAT32 (LBA) Partition on Firewire0,1 Opened output file '/ILookImager/ILook.003/DA13004.asb' continuing at byte 50657951744
	Image is being stored to /ILook.003/DA13004.asb Opened output file '/ILookImager/ILook.003/DA13005.asb' continuing at byte 78822965248
	Image is being stored to /ILook.003/DA13005.asb

	Image Complete Image was completed successfully.	
	Read : 80.03 GB (80026361856 bytes) Written : 2.620 GB (2619912273 bytes) Total Processed: 80.03 GB (80026361856 bytes) Image Speed : 7.681 MB/sec Elapsed Time : 2h 53m 39s Compression : 96.73% Bad Sectors : 0 SHA-1 Value : 655e9bddb36a3f9c5c4cc8bf32b8c5b41	
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-04 User notified if space exhausted.	as expected
	AO-05 Multifile image created.	as expected
	AO-10 Image file continued on new device.	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.	+

5.2.47 DA-14-ATA28

Test Case DA-	14-ATA28 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-14 Create an unaligned clone from an image file.	
Assertions:	AM-03 The tool executes in execution environment XE. 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-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	Paladin	
Test Date:	Fri Mar 31 11:05:56 2006	
Drives:	src(41) dst (85) other (4D-FU2)	
Source Setup:	<pre>src hash: < 15CAA1A307271160D8372668BF8A03FC45A51CC9 > 78125000 total sectors (40000000000 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC4658355) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00 empty entry 3 P 000000000 000000000 0000/000/00 0000/000/00 00 empty entry 4 P 000000000 000000000 0000/000/00 0000/000/00 1 078107967 sectors 39991279104 bytes</pre>	
Log Highlights:	Comparision of original to clone Sectors compared: 78125000	

```
Test Case DA-14-ATA28 ILook IXimager Version 2.0, Feb 01 2006
                                78125000
              Sectors match:
              Sectors differ:
                                        Λ
              Bytes differ:
              Diffs range
              Source (78125000) has 78176488 fewer sectors than destination (156301488)
              Zero fill:
                                          0
              Src Byte fill (41):
              Dst Byte fill (85): 78176488
              Other fill:
              Other no fill:
                                          0
              Zero fill range:
              Src fill range:
              Dst fill range: 78125000-156301487
              Other fill range:
              Other not filled range:
              O source read errors, O destination read errors
              IXImager Log file
              hda: 156301488 sectors (80026 MB) w/2048KiB Cache, CHS=9729/255/63,
              UDMA(100)
              SCSI device sda: 781443888 512-byte hdwr sectors (400099 MB)
              Initializing..
              Opened output device '/dev/hda'
              Beginning Restore operation for 40000000000 bytes
              Beginning Restore operation
              Beginning Restore operation
              Opened input file '/ILookImager/ILook.003/DA06ATA28002.asb'
              continuing at byte 20946223104
              Restoring from /ILook.003/DA06ATA28002.asb
              Opened input file '/ILookImager/ILook.003/DA06ATA28003.asb'
              continuing at byte 39117127680
              Restoring from /ILook.003/DA06ATA28003.asb
              Restore Complete
              Restore was completed successfully.
                             : 1.316 GB (1316466855 bytes)
                            : 40.00 GB (4000000000 bytes)
              Written
              Total Processed: 40.00 GB (4000000000 bytes)
Restore Speed : 38.31 MB/sec
              Elapsed Time : Oh 17m 24s
              Bad Sectors
                            : 0
              Clearing computer memory...
Results:
               Assertion & Expected Result
                                                               Actual Result
               AM-03 Execution environment is XE.
                                                               as expected
               AO-12 A clone is created from an image file.
                                                               as expected
               AO-13 Clone created using interface AI.
                                                               as expected
               AO-14 An unaligned clone is created.
                                                               as expected
               AO-17 Excess sectors are unchanged.
                                                               as expected
               AO-23 Logged information is correct.
                                                               as expected
Analysis:
             Expected results achieved
```

5.2.48 DA-14-ATA48

Test Case DA-	14-ATA48 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-14 Create an unaligned clone from an image file.	
Assertions:	AM-03 The tool executes in execution environment XE.	
	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-17 If requested, any excess sectors on a clone destination device are	
	not modified.	
	AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file.	

Test Case DA-	14-ATA48 ILook IXimager Version 2.0, Feb 01 2006
Tester Name:	brl
Test Host:	Paladin
Test Date:	Thu Apr 6 09:29:09 2006
Drives:	src(4C) dst (4D) other (4D-FU2)
Source	src hash: < 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF >
Setup:	390721968 total sectors (200049647616 bytes)
	24320/254/63 (max cyl/hd values) 24321/255/63 (number of cyl/hd)
	IDE disk: Model (WDC WD2000JB-00KFA0) serial # (WD-WMAMR1031111)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 390700737 0000/001/01 1023/254/63 Boot 07 NTFS
	2 P 000000000 000000000 0000/000/00 0000/000/00 00
	4 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 390700737 sectors 200038777344 bytes
Log	
Highlights:	Comparision of original to clone Sectors compared: 390721968
	Sectors match: 390721968
	Sectors differ: 0
	Bytes differ: 0
	Diffs range
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0
	Src Byte fill (4C): 0
	Dst Byte fill (4D): 97675200
	Other fill: 0
	Other no fill: 0 Zero fill range:
	Src fill range:
	Dst fill range: 390721968-488397167
	Other fill range:
	Other not filled range: 0 source read errors, 0 destination read errors
	o source read errors, o describación read errors
	IXImager Log file
	hda: 488397168 sectors (250059 MB) w/8192KiB Cache, CHS=30401/255/63,
	UDMA(100) SCSI device sda: 781443888 512-byte hdwr sectors (400099 MB)
	Initializing
	Opened output device '/dev/hda'
	Beginning Restore operation for 200049647616 bytes
	Beginning Restore operation Beginning Restore operation
	Opened input file '/ILookImager/ILook.011/DA06ATA484C002.asb'
	continuing at byte 1272381440
	Restoring from /ILook.011/DA06ATA484C002.asb
	Opened input file '/ILookImager/ILook.011/DA06ATA484C003.asb' continuing at byte 22615228416
	Restoring from /ILook.011/DA06ATA484C003.asb
	Opened input file '/ILookImager/ILook.011/DA06ATA484C004.asb'
	continuing at byte 50719096832
	Restoring from /ILook.011/DA06ATA484C004.asb
	Opened input file '/ILookImager/ILook.011/DA06ATA484C005.asb' continuing at byte 78885093376
	Restoring from /ILook.011/DA06ATA484C005.asb
	Opened input file '/ILookImager/ILook.011/DA06ATA484C006.asb'
	continuing at byte 107048337408
	Restoring from /ILook.011/DA06ATA484C006.asb
	Opened input file '/ILookImager/ILook.011/DA06ATA484C007.asb' continuing at byte 135214202880
	Restoring from /ILook.011/DA06ATA484C007.asb
	Opened input file '/ILookImager/ILook.011/DA06ATA484C008.asb'
	continuing at byte 163380002816
	Restoring from /ILook.011/DA06ATA484C008.asb
	Opened input file '/ILookImager/ILook.011/DA06ATA484C009.asb' continuing at byte 191545737216
	Restoring from /ILook.011/DA06ATA484C009.asb
	Restore Complete
	Restore was completed successfully.

Test Case DA-	14-ATA48 ILook IXimager Version 2.0, Feb 01 200	5
	Read : 5.380 GB (5379859104 bytes)	
	Written : 200.0 GB (200049647616 bytes	
	Total Processed: 200.0 GB (200049647616 bytes)
	Restore Speed : 38.54 MB/sec	
	Elapsed Time : 1h 26m 31s	
	Bad Sectors : 0	
	Clearing computer memory	
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
		•
Analysis:	Expected results achieved	

5.2.49 DA-14-CF

Test Case DA-	14-CF ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-14 Create an unaligned clone from an image file.
Assertions:	AM-03 The tool executes in execution environment XE. 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-17 If requested, any excess sectors on a clone destination device are not modified.
	AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
Tester Name:	brl
Test Host:	JohnSteed
Test Date:	Wed May 10 16:34:22 2006
Drives:	src(C1-CF) dst (C2-CF) other (4D-FU2)
Source Setup:	<pre>src hash: < 5B8235178DF99FA307430C088F81746606638A0B > 503808 total sectors (257949696 bytes) Removable media, no partition table.</pre>
Log Highlights:	Comparision of original to clone Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors IXImager Log file hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) SCSI device sdb: 781443888 512-byte hdwr sectors (400099 MB) SCSI device sda: 503808 512-byte hdwr sectors (258 MB) Initializing Opened output device '/dev/sda' Beginning Restore operation for 257949696 bytes Beginning Restore operation Restore Complete Restore was completed successfully. Read : 6.038 MB (6037753 bytes)
	Read : 6.038 MB (6037753 bytes) Written : 257.9 MB (257949696 bytes) Total Processed: 257.9 MB (257949696 bytes)

Test Case DA-	14-CF ILook IXimager Version 2.0, Feb 01 2006 Restore Speed : 5.862 MB/sec Elapsed Time : 0h 0m 44s Bad Sectors : 0 Clearing computer memory	
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
2	Donated considerable and	
Analysis:	Expected results achieved	

5.2.50 DA-14-ENCRYPTED

Test Case DA-14-ENCRYPTED ILook IXimager Version 2.0, Feb 01 2006		
-	DA-14 Create an unaligned clone from an image file.	
Assertions:	AM-03 The tool executes in execution environment XE. 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-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	Joe	
Test Date:	Thu May 4 14:55:47 2006	
Drives:	src(2A) dst (E6) other (4D-FU2)	
Source	src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 >	
Setup:	17783249 total sectors (9105023488 bytes) Model (QM39100TD-SCA) serial # (PCB=20-116711-06 HDAQM39100TD-SCA) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 017751762 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00	
Log Highlights:	Comparision of original to clone Sectors compared: 17783249 Sectors match: 17783249 Sectors differ: 0 Bytes differ: 0 Diffs range Source (17783249) has 18060421 fewer sectors than destination (35843670) Zero fill: 0 Src Byte fill (2A): 0 Dst Byte fill (E6): 18060421 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: 17783249-35843669 Other fill range: 0 Source read errors, 0 destination read errors IXImager Log file SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB) SCSI device sdc: 35843670 512-byte hdwr sectors (18352 MB)	

Test Case DA-	14-ENCRYPTED ILook IXimager Version 2.0, Feb 01	2006
rest case Da-	SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdc: 35843670 512-byte hdwr sector Initializing Opened output device '/dev/sdc' Beginning Restore operation for 9105023488 byt Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 609.1 MB (609137424 bytes) Written : 9.105 GB (9105023488 bytes) Total Processed: 9.105 GB (9105023488 bytes) Restore Speed : 30.97 MB/sec Elapsed Time : 0h 4m 54s Bad Sectors : 0 Clearing computer memory	rs (400099 MB) s (18352 MB)
Results:	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-12 A Clone is created from an image fire. AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.51 DA-14-F12

Test Case DA-	14-F12 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-14 Create an unaligned clone from an image file.	
Assertions:	AM-03 The tool executes in execution environment XE. 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-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	Joe	
Test Date:	Mon Apr 24 14:28:18 2006	
Drives:	src(43) dst (2F) other (4D-FU2)	
Source	src hash: < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	78125000 total sectors (40000000000 bytes) Model (0BB-75JHC0) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63	

Test Case DA-	14-F12 ILook IXimager Version 2.0, Feb 01 2006	
	17 P 000000000 000000000 0000/000/00 0000/000/ 18 P 000000000 000000000 0000/000/00 0000/000/ 1 020980827 sectors 10742183424 bytes 3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes 15 027712062 sectors 14188575744 bytes	
Log Highlights:	IXImager Log file SCSI device sdb: 17783249 512-byte hdwr sector SCSI device sdc: 78125000 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 16418304 bytes Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 593.0 kB (593021 bytes) Written : 16.42 MB (16418304 bytes) Total Processed: 16.42 MB (16418304 bytes) Restore Speed : 8.209 MB/sec Elapsed Time : 0h 0m 2s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 6853B517F50BF3CCADED3DB5FEAE08C Dst SHA1 Hash: 6853B517F50BF3CCADED3DB5FEAE08C	s (40000 MB) rs (400099 MB) rs (9105 MB)
Results:	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.52 DA-14-F16

Test Case DA-	14-F16 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-14 Create an unaligned clone from an image file.	
Assertions:	AM-03 The tool executes in execution environment XE.	
	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-17 If requested, any excess sectors on a clone destination device are not modified.	
	AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	Max	
Test Date:	Mon Apr 24 16:31:24 2006	
Drives:	src(44) dst (2C) other (4D-FU2)	
Source	<pre>src hash: < E196D36E7B322C0EF83923112AD1800581742B6E ></pre>	

	14-F16 ILook IXimager Version 2.0, Feb 01 2006	
Setup:	78165360 total sectors (40020664320 bytes)	
	65534/015/63 (max cyl/hd values)	
	65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400JB-00FMA0) serial #	(WD WMX TC1011210)
	N Start LBA Length Start C/H/S End C/H/S	
	1 P 000000063 020980827 0000/001/01 1023/254/	2.1
	2 X 020980890 057175335 1023/000/01 1023/254/	
	3 S 000000063 000032067 1023/001/01 1023/254/	
	4 x 000032130 002104515 1023/000/01 1023/254/	05 extended
	5 S 000000063 002104452 1023/001/01 1023/254/	63 06 Fat16
	6 x 002136645 004192965 1023/000/01 1023/254/	
	7 S 000000063 004192902 1023/001/01 1023/254/	
	8 x 006329610 008401995 1023/000/01 1023/254/	
	9 S 000000063 008401932 1023/001/01 1023/254/	
	10 x 014731605 010490445 1023/000/01 1023/254/ 11 S 000000063 010490382 1023/001/01 1023/254/	
	11 S 000000063 010490382 1023/001/01 1023/254/ 12 x 025222050 004209030 1023/000/01 1023/254/	
	13 S 000000063 004209030 1023/000/01 1023/254/	
	14 x 029431080 027744255 1023/000/01 1023/254/	
	15 S 000000063 027744192 1023/001/01 1023/254/	
	16 S 000000000 000000000 0000/000/00 0000/000/	
	17 P 000000000 000000000 0000/000/00 0000/000/	
	18 P 000000000 000000000 0000/000/00 0000/000/	
	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 004206967 Sectors 2154991104 Bytes 15 027744192 sectors 14205026304 bytes	
	15 02/744192 Sectors 14203020304 Bytes	
	IXImager Log file SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB) SCSI device sdc: 78165360 512-byte hdwr sectors (40021 MB) SCSI device sdd: 781443888 512-byte hdwr sectors (400099 MB) SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB) Initializing Opened output device '/dev/sdb' Beginning Restore operation for 1077479424 bytes Beginning Restore operation Restore Complete Restore was completed successfully. Read : 24.93 MB (24932422 bytes) Written : 1.077 GB (1077479424 bytes) Total Processed: 1.077 GB (1077479424 bytes) Restore Speed : 13.30 MB/sec Elapsed Time : 0h 1m 21s Bad Sectors : 0 Clearing computer memory	
	SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 1077479424 byt Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 24.93 MB (24932422 bytes) Written : 1.077 GB (1077479424 bytes) Total Processed: 1.077 GB (1077479424 bytes) Restore Speed : 13.30 MB/sec Elapsed Time : 0h 1m 21s Bad Sectors : 0	s (40021 MB) rs (400099 MB) s (9105 MB)
Pagulte	SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 1077479424 byt Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 24.93 MB (24932422 bytes) Written : 1.077 GB (1077479424 bytes) Total Processed: 1.077 GB (1077479424 bytes) Restore Speed : 13.30 MB/sec Elapsed Time : 0h 1m 21s Bad Sectors : 0	ES (40021 MB) PES (400099 MB) PES (9105 MB) PES PES D1CA65660 -
Results:	SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 1077479424 byte Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 24.93 MB (24932422 bytes) Written : 1.077 GB (1077479424 bytes) Total Processed: 1.077 GB (1077479424 bytes) Restore Speed : 13.30 MB/sec Elapsed Time : 0h 1m 21s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: F26795072562849A38BB46C94AA54B7 Dst SHA1 Hash: F26795072562849A38BB46C94AA54B7	D1CA65660 - D1CA65660 -
Results:	SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 1077479424 byte Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 24.93 MB (24932422 bytes) Written : 1.077 GB (1077479424 bytes) Total Processed: 1.077 GB (1077479424 bytes) Restore Speed : 13.30 MB/sec Elapsed Time : 0h 1m 21s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: F26795072562849A38BB46C94AA54B7 Dst SHA1 Hash: F26795072562849A38BB46C94AA54B7	D1CA65660 - D1CA65660 - D1CA65660 -
Results:	SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 1077479424 byt Beginning Restore operation Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 24.93 MB (24932422 bytes) Written : 1.077 GB (1077479424 bytes) Total Processed: 1.077 GB (1077479424 bytes) Restore Speed : 13.30 MB/sec Elapsed Time : 0h 1m 21s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: F26795072562849A38BB46C94AA54B7 Dst SHA1 Hash: F26795072562849A38BB46C94AA54B7 Assertion & Expected Result AM-03 Execution environment is XE.	D1CA65660 - D1CA65660 - Actual Result as expected
Results:	SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 1077479424 byt Beginning Restore operation Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 24.93 MB (24932422 bytes) Written : 1.077 GB (1077479424 bytes) Total Processed: 1.077 GB (1077479424 bytes) Restore Speed : 13.30 MB/sec Elapsed Time : 0h 1m 21s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: F26795072562849A38BB46C94AA54B7 Dst SHA1 Hash: F26795072562849A38BB46C94AA54B7 Assertion & Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file.	D1CA65660 - D1CA65660 - D1CA65660 - Actual Result as expected as expected
Results:	SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 1077479424 byt Beginning Restore operation Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 24.93 MB (24932422 bytes) Written : 1.077 GB (1077479424 bytes) Total Processed: 1.077 GB (1077479424 bytes) Restore Speed : 13.30 MB/sec Elapsed Time : 0h 1m 21s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: F26795072562849A38BB46C94AA54B7 Dst SHA1 Hash: F26795072562849A38BB46C94AA54B7 Assertion & Expected Result AM-03 Execution environment is XE.	D1CA65660 - D1CA65660 - Actual Result as expected
Results:	SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 1077479424 byt Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 24.93 MB (24932422 bytes) Written : 1.077 GB (1077479424 bytes) Total Processed: 1.077 GB (1077479424 bytes) Restore Speed : 13.30 MB/sec Elapsed Time : 0h 1m 21s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: F26795072562849A38BB46C94AA54B7 Dst SHA1 Hash: F26795072562849A38BB46C94AA54B7 Assertion & Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file. AO-13 Clone created using interface AI.	D1CA65660 - D1CA65660 - D1CA65660 - D1CA65660 - as expected as expected as expected as expected
Results:	SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 1077479424 byt Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 24.93 MB (24932422 bytes) Written : 1.077 GB (1077479424 bytes) Total Processed: 1.077 GB (1077479424 bytes) Restore Speed : 13.30 MB/sec Elapsed Time : 0h 1m 21s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: F26795072562849A38BB46C94AA54B7 Dst SHA1 Hash: F26795072562849A38BB46C94AA54B7 Assertion & Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	D1CA65660 - D1CA65660 - D1CA65660 - D1CA65660 - D1CA65660 - Actual Result as expected
Results:	SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 1077479424 byt Beginning Restore operation Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 24.93 MB (24932422 bytes) Written : 1.077 GB (1077479424 bytes) Total Processed: 1.077 GB (1077479424 bytes) Restore Speed : 13.30 MB/sec Elapsed Time : 0h 1m 21s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: F26795072562849A38BB46C94AA54B7 Dst SHA1 Hash: F26795072562849A38BB46C94AA54B7 Assertion & Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	D1CA65660 - D1CA65660 - D1CA65660 - D1CA65660 - Actual Result as expected as expected as expected as expected as expected as expected

5.2.53 DA-14-F32

Togt Cago DA	14-F32 ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-14 Create an unaligned clone from an image file.
Assertions:	AM-03 The tool executes in execution environment XE.
TIBBET CIOID.	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-17 If requested, any excess sectors on a clone destination device are not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	Joe
Test Date:	Mon Apr 24 17:04:40 2006
Drives:	src(43) dst (2F) other (4D-FU2)
Source	src hash: < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
Setup:	78125000 total sectors (4000000000 bytes)
-	Model (0BB-75JHC0) serial # (WD-WMAMC46588)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020980827 0000/001/01 1023/254/63
	2 X 020980890 057143205 1023/000/01 1023/254/63
	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 S 000000063 002104513 1023/001/01 1023/254/63 06 Fat16
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other
	8 x 006329610 008401995 1023/000/01 1023/254/63
	9 S 000000063 008401932 1023/001/01 1023/254/63 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 027712125 1023/000/01 1023/254/63 05 extended
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS
	16 S 000000000 000000000 0000/000/00 0000/000/00 00
	17 P 000000000 000000000 0000/000/00 0000/000/00 00
	18 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 020980827 sectors 10742183424 bytes
	3 000032067 sectors 16418304 bytes
	5 002104452 sectors 1077479424 bytes
	<u> </u>
	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	
Highlights:	IXImager Log file
5 5 7	SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB)
	SCSI device sdc: 78125000 512-byte hdwr sectors (40000 MB)
	SCSI device sdd: 781443888 512-byte hdwr sectors (400099 MB)
	SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB)
	-
	Initializing
	Opened output device '/dev/sdb'
	Beginning Restore operation for 4301789184 bytes
	Beginning Restore operation
	Beginning Restore operation
	Restore Complete
	Restore was completed successfully.
	Read : 98.98 MB (98984710 bytes)
	Written : 4.302 GB (4301789184 bytes)
	Total Processed: 4.302 GB (4301789184 bytes)
	Restore Speed : 13.04 MB/sec
	Elapsed Time : 0h 5m 30s
	Bad Sectors : 0
	Clearing computer memory

Test Case DA-	est Case DA-14-F32 ILook IXimager Version 2.0, Feb 01 2006	
	Hashes of src and dst partitions Src SHA1 Hash: 72462489BCF79A98B59B6A8CD938FEB Dst SHA1 Hash: 72462489BCF79A98B59B6A8CD938FEB	
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.54 DA-14-F32X

	L4-F32X ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-14 Create an unaligned clone from an image file.
Assertions:	AM-03 The tool executes in execution environment XE.
	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-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	Max
Test Date:	Mon Apr 24 14:19:41 2006
Drives:	src(44) dst (E6) other (4D-FU2)
Source	src hash: < E196D36E7B322C0EF83923112AD1800581742B6E >
Setup:	78165360 total sectors (40020664320 bytes)
	65534/015/63 (max cyl/hd values)
	65535/016/63 (number of cyl/hd)
	IDE disk: Model (WDC WD400JB-00FMA0) serial # (WD-WMAJC1011319)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020980827 0000/001/01 1023/254/63
	2 X 020980890 057175335 1023/000/01 1023/254/63
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended
	5 S 000000063 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 000000000 0000/000/00 0000/000/00 00
	17 P 000000000 000000000 0000/000/00 0000/000/00 00
	18 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 020980827 sectors 10742183424 bytes
	3 000032067 sectors 16418304 bytes
	5 002104452 sectors 1077479424 bytes
	7 004192902 sectors 2146765824 bytes
	9 008401932 sectors 4301789184 bytes
	11 010490382 sectors 5371075584 bytes
	13 004208967 sectors 2154991104 bytes
	15 027744192 sectors 14205026304 bytes

Test Case DA-	14-F32X ILook IXimager Version 2.0, Feb 01 2006	
Test Case DA- Log Highlights:	IXImager Log file SCSI device sdb: 35843670 512-byte hdwr sector SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdc: 781443888 512-byte hdwr sector SCSI device sdb: 35843670 512-byte hdwr sector SCSI device sdb: 35843670 512-byte hdwr sector SCSI device sdb: 35843670 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 10742183424 by Beginning Restore operation Restore Complete Restore was completed successfully. Read : 247.0 MB (247043065 bytes) Written : 10.74 GB (10742183424 bytes) Total Processed: 10.74 GB (10742183424 bytes) Restore Speed : 31.59 MB/sec Elapsed Time : 0h 5m 40s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: D190A47B60A17FE6912CA26BE237E92	s (40021 MB) rs (400099 MB) s (18352 MB) tes
Demile	Dst SHA1 Hash: D190A47B60A17FE6912CA26BE237E92	3AD592FAE -
Results:	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.55 **DA-14-FIREWIRE**

Test Case DA-	14-FIREWIRE ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-14 Create an unaligned clone from an image file.
Assertions:	AM-03 The tool executes in execution environment XE.
	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-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	JohnSteed
Test Date:	Tue Apr 4 13:45:04 2006
Drives:	src(83-FU2) dst (84-FU2) other (4D-FU2)
Source	src hash: < 9B0D0FEA3023476FA5D24436C0CEFCB585EB8695 >
Setup:	160836480 total sectors (82348277760 bytes)
	10010/254/63 (max cyl/hd values)
	10011/255/63 (number of cyl/hd)
	Model (HDS722580VLAT20) serial # ()
Log	
Highlights:	Comparision of original to clone
	Sectors compared: 160836480
	Sectors match: 160836480
	Sectors differ: 0
	Bytes differ: 0

Test Case DA-	14-FIREWIRE ILook IXimager Version 2.0, Feb 01 2	2006
	Diffs range	
	0 source read errors, 0 destination read errors	S
	IXImager Log file	
	hda: 156301488 sectors (80026 MB) w/8192KiB Ca	che, CHS=9729/255/63,
	UDMA(100)	
	SCSI device sda: 160836480 512-byte hdwr sector	
	SCSI device sdb: 781443888 512-byte hdwr sector	
	SCSI device sda: 160836480 512-byte hdwr sector	rs (82348 MB)
	Initializing	
	Opened output device '/dev/sda' Beginning Restore operation for 82348277760 by	tos
	Beginning Restore operation for 82348277780 by	LEB
	Beginning Restore operation	
	Opened input file '/ILookImager/ILook.009/DA06	FIREWIREOO2 ash!
	continuing at byte 28172419072	111111111111111111111111111111111111111
	Restoring from /ILook.009/DA06FIREWIRE002.asb	
	Opened input file '/ILookImager/ILook.009/DA06	FIREWIRE003.asb'
	continuing at byte 56340840448	
	Restoring from /ILook.009/DA06FIREWIRE003.asb	
	Restore Complete	
	Restore was completed successfully.	
	Read : 1.894 GB (1894487827 bytes)	
	Written : 82.35 GB (82348277760 bytes)	
	Total Processed: 82.35 GB (82348277760 bytes)	
	Restore Speed : 20.92 MB/sec	
	Elapsed Time : 1h 5m 37s	
	Bad Sectors : 0	
	Clearing computer memory	
Results:		
Results:	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.56 DA-14-FLOPPY

Test Case DA-	14-FLOPPY ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-14 Create an unaligned clone from an image file.
Assertions:	AM-03 The tool executes in execution environment XE. 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-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
Tester Name:	brl
Test Host:	JohnSteed
Test Date:	Wed May 3 13:47:57 2006
Drives:	src(floppy) dst (destination-floppy) other (4D-FU2)
Source Setup:	<pre>src hash: < E2863334AC7EAABC7C8A0D62EB0D3B3AF29F2C40 > Floppy disk</pre>
Log Highlights:	IXImager Log file hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 781443888 512-byte hdwr sectors (400099 MB)

Test Case DA-	14-FLOPPY ILook IXimager Version 2.0, Feb 01 200	06
	Initializing Checking ILook IXimager file header Opened output device '/dev/fd0' Beginning Restore operation for 1474560 bytes Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully.	
	Read : 141.8 kB (141815 bytes) Written : 1.475 MB (1474560 bytes) Total Processed: 1.475 MB (1474560 bytes) Restore Speed : 27.82 kB/sec Elapsed Time : 0h 0m 53s Bad Sectors : 0 Clearing computer memory Source SHA1 Hash: E2863334AC7EAABC7C8A0D62EB0D	3B3AF29F2C40
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.57 DA-14-HIDDEN

Test Case DA-	14-HIDDEN ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-14 Create an unaligned clone from an image file.
Assertions:	AM-03 The tool executes in execution environment XE.
	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-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	Max
Test Date:	Mon Apr 24 17:25:31 2006
Drives:	src(44) dst (2C) other (4D-FU2)
Source	src hash: < E196D36E7B322C0EF83923112AD1800581742B6E >
Setup:	78165360 total sectors (40020664320 bytes) 65534/015/63 (max cyl/hd values)
	65535/016/63 (number of cyl/hd)
	IDE disk: Model (WDC WD400JB-00FMA0) serial # (WD-WMAJC1011319)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020980827 0000/001/01 1023/254/63
	2 X 020980890 057175335 1023/000/01 1023/254/63 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 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16
	6 x 002136645 004192965 1023/000/01 1023/254/63
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended
	9 S 000000063 008401932 1023/001/01 1023/254/63
	10 x 014731605 010490445 1023/000/01 1023/254/63
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap

Test Case DA-	14-HIDDEN ILook IXimager Version 2.0, Feb 01 20	06
	14 x 029431080 027744255 1023/000/01 1023/254/ 15 S 000000063 027744192 1023/001/01 1023/254/ 16 S 000000000 000000000 0000/000/00 0000/000/ 17 P 00000000 000000000 0000/000/00 0000/000/ 18 P 000000000 000000000 0000/000/00 0000/000/ 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 0277444192 sectors 14205026304 bytes	63
Log Highlights:	IXImager Log file SCSI device sdb: 17783249 512-byte hdwr sector SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 2146765824 byt Beginning Restore operation Restore Complete Restore was completed successfully. Read : 49.54 MB (49537184 bytes) Written : 2.147 GB (2146765824 bytes) Total Processed: 2.147 GB (2146765824 bytes) Restore Speed : 13.25 MB/sec Elapsed Time : 0h 2m 42s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 0893C80EDC0E9074FD139B67FB6DE3C Dst SHA1 Hash: 0893C80EDC0E9074FD139B67FB6DE3C	s (40021 MB) rs (400099 MB) s (9105 MB) es
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.58 DA-14-HOT

Test Case DA-	14-HOT ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-14 Create an unaligned clone from an image file.
	AM-03 The tool executes in execution environment XE. 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-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
Tester Name:	brl
Test Host:	Joe

Test Case DA-	14-HOT ILook IXimager Version 2.0, Feb 01 2006
Test Date:	Wed May 10 13:05:37 2006
Drives:	src(07) dst (17) other (8F-FU2+8D-FU2)
Source	src hash: < 655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52E>
Setup:	156301488 total sectors (80026361856 bytes)
_	Model (WDC WD800JD-32HK) serial # (WD-WMAJ91510044)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 156280257 0000/001/01 1023/254/63 Boot 07 NTFS
	2 P 000000000 000000000 0000/000/00 0000/000/00 00
	3 P 000000000 000000000 0000/000/00 0000/000/00 00
	4 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 156280257 sectors 80015491584 bytes
Log	
Highlights:	Comparision of original to clone
	Sectors compared: 156301488
	Sectors match: 156301488
	Sectors differ: 0
	Bytes differ: 0
	Diffs range
	Source (156301488) has 78140160 fewer sectors than destination (234441648) Zero fill:
	Src Byte fill (07): 0
	Dst Byte fill (17): 78140160 Other fill: 0
	Other no fill: 0
	Zero fill range:
	Src fill range:
	Dst fill range: 156301488-234441647
	Other fill range:
	Other not filled range:
	0 source read errors, 0 destination read errors
	IXImager Log file
	atal: dev 0 ATA-6, max UDMA/100, 234441648 sectors: LBA48
	SCSI device sdb: 234441648 512-byte hdwr sectors (120034 MB)
	SCSI device sdc: 78140160 512-byte hdwr sectors (40008 MB)
	SCSI device sdd: 781422768 512-byte hdwr sectors (400088 MB)
	SCSI device sdb: 234441648 512-byte hdwr sectors (120034 MB)
	Initializing
	Opened output device '/dev/sdb'
	Beginning Restore operation for 80026361856 bytes
	Beginning Restore operation
	Beginning Restore operation
	Opened input file '/ILookImager/ILook.001/DA13002.asb' continuing at byte 1285554176
	Restoring from /ILook.001/DA13002.asb
	Opened input file '/ILookImager/ILook.001/DA13003.asb'
	continuing at byte 22492741632
	Restoring from /ILook.001/DA13003.asb
	Searching for files. Please wait
	Scanning for devices. Please wait
	User entered the Select Next Input Device Menu
	Please wait while I check for media
	Checking source device
	User selected device '/dev/sdd' for input
	Restoring from /dev/sdd1
	A 400.1 GB Win95 FAT32 (LBA) Partition on Firewire0,1
	Restoring to /dev/sdb
	A 120.0 GB WDC WD1200JD-00G Hard Drive
	Searching for files. Please wait
	User entered the Select Image menu
	User selected 'ILook.003'
	User exited the Select Image Menu
	Opened input file '/ILookImager/ILook.003/DA13004.asb'
	continuing at byte 50655920128
	Restoring from /ILook.003/DA13004.asb
	Opened input file '/ILookImager/ILook.003/DA13005.asb'
	continuing at byte 78820933632 Restoring from /ILook.003/DA13005.asb
	Restoring from /ILOOK.003/DAI3005.asp
	Restore was completed successfully.
	Read : 2.620 GB (2619912273 bytes)
	1 (201)/122/0 2/1000/

Test Case DA-	14-HOT ILook IXimager Version 2.0, Feb 01 2006	
	Written : 80.03 GB (80026361856 bytes) Total Processed: 80.03 GB (80026361856 bytes) Restore Speed : 21.25 MB/sec Elapsed Time : 1h 2m 46s Bad Sectors : 0 Clearing computer memory	
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
7		
Analysis:	Expected results achieved	

5.2.59 DA-14-NT

Test Case DA-14-NT ILook IXimager Version 2.0, Feb 01 2006			
Description:	DA-14 Create an unaligned clone from an image file.		
Assertions:	AM-03 The tool executes in execution environment XE.		
	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-17 If requested, any excess sectors on a clone destination device are		
	not modified.		
	AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
Tester Name: Test Host:	brl Joe		
Test Host:			
	Tue Apr 25 09:42:25 2006		
Drives: Source	<pre>src(43) dst (E6) other (4D-FU2) src hash: < 888E2E7F7AD237DC7A732281DD93F325065E5871 ></pre>		
Setup:			
setup:	78125000 total sectors (4000000000 bytes)		
	Model (OBB-75JHCO) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63		
	2 X 020980890 057143205 1023/000/01 1023/254/63		
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12		
	4 x 000032130 002104515 1023/000/01 1023/254/63		
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other		
	8 x 006329610 008401995 1023/000/01 1023/254/63		
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32		
	10 x 014731605 010490445 1023/000/01 1023/254/63		
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux		
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap		
	14 x 029431080 027712125 1023/000/01 1023/254/63		
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	3 000032067 sectors 10742183424 bytes		
	5 002104452 sectors 10418304 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 2146/65824 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027712062 sectors 14188575744 bytes		
	<u> </u>		

Test Case DA-	14-NT ILook IXimager Version 2.0, Feb 01 2006		
Test Case DA- Log Highlights:			
	Src SHA1 Hash: 73EB2D27564B060DB796EFB78694A10E6B43D23F - Dst SHA1 Hash: 73EB2D27564B060DB796EFB78694A10E6B43D23F -		
Results:			
	Assertion & Expected Result	Actual Result	
	AM-03 Execution environment is XE.	as expected	
	AO-12 A clone is created from an image file.	as expected	
	AO-13 Clone created using interface AI.	as expected	
	AO-14 An unaligned clone is created.	as expected	
	AO-17 Excess sectors are unchanged.	as expected	
	AO-23 Logged information is correct.	as expected	
Analysis:	Expected results achieved		

5.2.60 DA-14-RAW

Test Case DA-	14-RAW ILook IXimager Version 2.0, Feb 01 2006		
Description:	DA-14 Create an unaligned clone from an image file.		
Assertions:	AM-03 The tool executes in execution environment XE.		
	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.		
	A0-17 If requested, any excess sectors on a clone destination device are		
	not modified.		
	AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
- · · · · · · · · · · · · · · · · · · ·			
Tester Name:	brl		
Test Host:	Joe		
Test Date:	Thu May 4 09:55:27 2006		
BII.OD.	src(2A) dst (E6) other (4D-FU2)		
Source	<pre>src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 > 17783249 total sectors (9105023488 bytes)</pre>		
Setup:	17/83249		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 017751762 0000/001/01 1023/254/63 Boot 07 NTFS		
	2 P 000000000 000000000 0000/000/00 0000/000/00 00		
	3 P 000000000 000000000 0000/000/00 0000/000/00 00		
	4 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 017751762 sectors 9088902144 bytes		
Log			
Highlights:	Comparision of original to clone		

```
Test Case DA-14-RAW ILook IXimager Version 2.0, Feb 01 2006
              Sectors compared: 17783249
              Sectors match: 17783249
              Sectors differ:
              Bytes differ:
              Diffs range
              Source (17783249) has 18060421 fewer sectors than destination (35843670)
              Zero fill:
              Src Byte fill (2A):
                                         0
              Dst Byte fill (E6): 18060421
              Other fill:
              Other no fill:
              Zero fill range:
              Src fill range:
              Dst fill range: 17783249-35843669
              Other fill range:
              Other not filled range:
              O source read errors, O destination read errors
              IXImager Log file
              SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB)
              SCSI device sdc: 35843670 512-byte hdwr sectors (18352 MB)
              SCSI device sdd: 781443888 512-byte hdwr sectors (400099 MB)
              SCSI device sdc: 35843670 512-byte hdwr sectors (18352 MB)
              Initializing...
              Opened output device '/dev/sdc'
              Beginning Restore operation for 9105023488 bytes
              Beginning Restore operation
              Beginning Restore operation
              Opened input file '/ILookImager/ILook.022/DA10RAW002.asb'
              continuing at byte 646709248
              Restoring from /ILook.022/DA10RAW002.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW003.asb'
              continuing at byte 1293418496
              Restoring from /ILook.022/DA10RAW003.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW004.asb'
              continuing at byte 1940127744
              Restoring from /ILook.022/DA10RAW004.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW005.asb'
              continuing at byte 2586836992
              Restoring from /ILook.022/DA10RAW005.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW006.asb'
              continuing at byte 3233546240
              Restoring from /ILook.022/DA10RAW006.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW007.asb'
              continuing at byte 3880255488
              Restoring from /ILook.022/DA10RAW007.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW008.asb'
              continuing at byte 4526964736
              Restoring from /ILook.022/DA10RAW008.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW009.asb'
              continuing at byte 5173673984
              Restoring from /ILook.022/DA10RAW009.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW010.asb'
              continuing at byte 5820383232
              Restoring from /ILook.022/DA10RAW010.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW011.asb'
              continuing at byte 6467092480
              Restoring from /ILook.022/DA10RAW011.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW012.asb'
              continuing at byte 7113801728
              Restoring from /ILook.022/DA10RAW012.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW013.asb'
              continuing at byte 7760510976
              Restoring from /ILook.022/DA10RAW013.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW014.asb'
              continuing at byte 8407220224
              Restoring from /ILook.022/DA10RAW014.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW015.asb'
              continuing at byte 9053929472
              Restoring from /ILook.022/DA10RAW015.asb
              Restore Complete
              Restore was completed successfully.
```

Test Case DA-	14-RAW ILook IXimager Version 2.0, Feb 01 2006	
	Read : 9.123 GB (9122743904 bytes) Written : 9.105 GB (9105023488 bytes) Total Processed: 9.105 GB (9105023488 bytes) Restore Speed : 15.12 MB/sec	
	Elapsed Time : 0h 10m 2s Bad Sectors : 0 Clearing computer memory	
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	·

5.2.61 DA-14-SATA28

Test Case DA-	14-SATA28 ILook IXimager Version 2.0, Feb 01 2006		
Description:	DA-14 Create an unaligned clone from an image file.		
Assertions:	AM-03 The tool executes in execution environment XE.		
	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-17 If requested, any excess sectors on a clone destination device are		
	not modified.		
	AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
Tester Name:	brl		
Test Host:	Freddy		
Test Date:	Fri Mar 31 11:10:05 2006		
Drives:	src(07) dst (17) other (4D-FU2)		
Source	src hash: < 655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52E>		
Setup:	156301488 total sectors (80026361856 bytes)		
	Model (WDC WD800JD-32HK) serial # (WD-WMAJ91510044)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 156280257 0000/001/01 1023/254/63 Boot 07 NTFS		
	2 P 000000000 000000000 0000/000/00 0000/000/00 00		
	3 P 000000000 000000000 0000/000/00 0000/000/00 00		
	4 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 156280257 sectors 80015491584 bytes		
Log			
Highlights:	Comparision of original to clone		
	Sectors compared: 156301488		
	Sectors match: 156301488		
	Sectors differ: 0		
	Bytes differ: 0		
	Diffs range		
	Source (156301488) has 78140160 fewer sectors than destination (234441648)		
	Zero fill: 0		
	Src Byte fill (07): 0		
	Dst Byte fill (17): 78140160		
	Other fill: 0		
	Other no fill: 0		
	Zero fill range:		
	Src fill range:		
	Dst fill range: 156301488-234441647		
	Other fill range:		
	Other not filled range:		
	0 source read errors, 0 destination read errors		

Test Case DA-1	14-SATA28 ILook IXimager Version 2.0, Feb 01 200	06	
	IXImager Log file		
	SCSI device sdb: 781443888 512-byte hdwr sectors (400099 MB)		
	atal: dev 0 ATA-6, max UDMA/100, 234441648 sectors: LBA48		
	SCSI device sdc: 234441648 512-byte hdwr sectors (120034 MB)		
	SCSI device sdc: 234441648 512-byte hdwr sectors (120034 MB)		
	Initializing		
	Opened output device '/dev/sdc'		
l	Beginning Restore operation for 80026361856 bytes		
	Beginning Restore operation		
	Beginning Restore operation		
ı	Opened input file '/ILookImager/ILook.007/DA06SATA48002.asb'		
ı	continuing at byte 1284833280		
ı	Restoring from /ILook.007/DA06SATA48002.asb		
	Opened input file '/ILookImager/ILook.007/DA06	SATA48003.asb'	
ı	continuing at byte 22479896576		
	Restoring from /ILook.007/DA06SATA48003.asb		
	Opened input file '/ILookImager/ILook.007/DA06	SATA48004.asb'	
	continuing at byte 50644058112		
	Restoring from /ILook.007/DA06SATA48004.asb		
	Opened input file '/ILookImager/ILook.007/DA06SATA48005.asb'		
	continuing at byte 78810251264		
	Restoring from /ILook.007/DA06SATA48005.asb		
	Restore Complete		
	Restore was completed successfully.		
	Read : 2.620 GB (2620183743 bytes)		
	Written : 80.03 GB (80026361856 bytes)		
ı	Total Processed: 80.03 GB (80026361856 bytes)		
	Restore Speed : 47.83 MB/sec		
ı	Elapsed Time : 0h 27m 53s		
	Bad Sectors : 0		
	Clearing computer memory		
Results:			
	Assertion & Expected Result	Actual Result	
	AM-03 Execution environment is XE.	as expected	
	AO-12 A clone is created from an image file.	as expected	
	AO-13 Clone created using interface AI.	as expected	
	AO-14 An unaligned clone is created.	as expected	
	AO-17 Excess sectors are unchanged.	as expected	
	AO-23 Logged information is correct.	as expected	
Analysis:	Expected results achieved		

5.2.62 DA-14-SATA48

Test Case DA-	14-SATA48 ILook IXimager Version 2.0, Feb 01 2006		
Description:	DA-14 Create an unaligned clone from an image file.		
Assertions:	AM-03 The tool executes in execution environment XE.		
	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-17 If requested, any excess sectors on a clone destination device are not modified.		
	AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.		
Tester Name:	brl		
Test Host:	Joe		
Test Date:	Tue Apr 4 15:36:46 2006		
Drives:	src(16) dst (0E) other (4D-FU2)		
Source	src hash: < F82982A9C63133988C1D2B4DA7C9C25CCA2D77A5 >		
Setup:	312581808 total sectors (160041885696 bytes)		
	19456/254/63 (max cyl/hd values)		
	19457/255/63 (number of cyl/hd)		
	Model (WDC WD1600JD-00G) serial # (WD-WMAES2058252)		

1 P 000000063 31256057 2 P 000000000 00000000 3 P 000000000 00000000	Start C/H/S End C/H/S boot Partition type 0000/001/01 1023/254/63 Boot 07 NTFS 0000/000/00 0000/000/00 00 empty entry 0000/000/00 0000/000/00 00 empty entry 0000/000/00 0000/000/00 00 empty entry 31015424 bytes to clone 808
Highlights: Comparision of original	808
Sectors match: 31258 Sectors differ: Bytes differ: Diffs range Source (312581808) has Zero fill: Src Byte fill (16): Dst Byte fill (0E): 175 Other fill: Other no fill: Zero fill range: Src fill range: Src fill range: Other fill range: Other not filled range: ScsI device sdb: 488397 SCSI device sdc: 781443 SCSI device sdb: 488397 Initializing Opened output device '/ Beginning Restore opera Beginning Restore opera Beginning Restore opera Beginning Restore opera Opened input file '/ILc continuing at byte 1265 Restoring from /ILcok.0 Opened input file '/ILc continuing at byte 2261 Restoring from /ILcok.0 Opened input file '/ILc continuing at byte 5072 Restoring from /ILcok.0 Opened input file '/ILc continuing at byte 7888 Restoring from /ILcok.0 Opened input file '/ILc continuing at byte 1070 Restoring from /ILcok.0 Opened input file '/ILc continuing at byte 1352 Restoring from /ILcok.0 Opened input file '/ILc continuing at byte 1352 Restoring from /ILcok.0 Opened input file '/ILc continuing at byte 1352 Restoring from /ILcok.0 Restore Complete Restore was completed se	0 0 08-488397167 destination read errors DMA/100, 488397168 sectors: LBA48 68 512-byte hdwr sectors (250059 MB) 88 512-byte hdwr sectors (400099 MB) 68 512-byte hdwr sectors (250059 MB) lev/sdb' ion for 160041885696 bytes ion ion ion ikImager/ILook.010/DA06SATA48002.asb' 31232 0/DA06SATA48002.asb kImager/ILook.010/DA06SATA48003.asb' 160576 0/DA06SATA48003.asb kimager/ILook.010/DA06SATA48004.asb' 521664 0/DA06SATA48004.asb ikImager/ILook.010/DA06SATA48005.asb' 649280 0/DA06SATA48005.asb ikImager/ILook.010/DA06SATA48006.asb' 0106880 0/DA06SATA48006.asb ikImager/ILook.010/DA06SATA48007.asb' 6234496 0/DA06SATA48007.asb ccessfully. GB (4459320703 bytes) GB (160041885696 bytes) GB (160041885696 bytes) MB/sec
Results:	
Assertion & Expected R AM-03 Execution environ A0-12 A clone is creat A0-13 Clone created us A0-14 An unaligned clo A0-17 Excess sectors a	ment is XE. as expected ed from an image file. as expected eng interface AI. as expected the is created. as expected

Test Case DA-14-SATA48 ILook IXimager Version 2.0, Feb 01 2006		
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.63 DA-14-SCSI

Test Case DA-14-SCSI ILook IXimager Version 2.0, Feb 01 2006			
Description:	DA-14 Create an unaligned clone from an image file.		
Assertions:	AM-03 The tool executes in execution environment XE. 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-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
Tester Name:	brl		
Test Host:	Joe		
Test Date:	Fri Mar 31 11:05:11 2006		
Drives:	src(2A) dst (24) other (4D-FU2)		
Source Setup:	<pre>src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 > 17783249 total sectors (9105023488 bytes) Model (QM39100TD-SCA) serial # (PCB=20-116711-06 HDAQM39100TD-SCA) N Start LBA Length</pre>		
Log Highlights:	Comparision of original to clone Sectors compared: 17783249 Sectors match: 17783249 Sectors differ: 0 Bytes differ: 0 Diffs range Source (17783249) has 125591492 fewer sectors than destination (143374741) Zero fill: 0 Src Byte fill (2A): 0 Dst Byte fill (24): 125591492 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: 17783249-143374740 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors		
	IXImager Log file SCSI device sdb: 143374741 512-byte hdwr sectors (73408 MB) SCSI device sdc: 781443888 512-byte hdwr sectors (400099 MB) SCSI device sdb: 143374741 512-byte hdwr sectors (73408 MB) Initializing Opened output device '/dev/sdb' Beginning Restore operation for 9105023488 bytes Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully.		
	Read : 606.9 MB (606900616 bytes) Written : 9.105 GB (9105023488 bytes) Total Processed: 9.105 GB (9105023488 bytes)		

Test Case DA-	14-SCSI ILook IXimager Version 2.0, Feb 01 2006 Restore Speed : 53.88 MB/sec Elapsed Time : 0h 2m 49s Bad Sectors : 0 Clearing computer memory	
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.64 DA-14-SWAP

Test Case DA-14-SWAP ILook IXimager Version 2.0, Feb 01 2006			
Description:	DA-14 Create an unaligned clone from an image file.		
Assertions:	DA-14 Create an unaligned clone from an image file. AM-03 The tool executes in execution environment XE. 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-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.		
Tester Name:	brl		
Test Host:	Max		
Test Date:	Tue Apr 25 09:20:35 2006		
Drives:	src(44) dst (2C) other (4D-FU2)		
Source	src hash: < E196D36E7B322C0EF83923112AD1800581742B6E >		
Setup:	78165360 total sectors (40020664320 bytes)		
	65534/015/63 (max cyl/hd values)		
	65535/016/63 (number of cyl/hd)		
	IDE disk: Model (WDC WD400JB-00FMA0) serial # (WD-WMAJC1011319) N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63		
	2 X 020980890 057175335 1023/000/01 1023/254/63		
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12		
	4 x 000032130 002104515 1023/000/01 1023/254/63		
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other		
	8 x 006329610 008401995 1023/000/01 1023/254/63		
	9 S 000000063 008401932 1023/001/01 1023/254/63		
	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 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027744192 sectors 14205026304 bytes		
L			

Test Case DA-	14-SWAP ILook IXimager Version 2.0, Feb 01 2006		
Log Highlights:	IXImager Log file SCSI device sdb: 17783249 512-byte hdwr sector SCSI device sdc: 78165360 512-byte hdwr sector SCSI device sdd: 781443888 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector SCSI device sdb: 17783249 512-byte hdwr sector Initializing Opened output device '/dev/sdb' Beginning Restore operation for 2154991104 byt Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 49.74 MB (49737188 bytes) Written : 2.155 GB (2154991104 bytes) Total Processed: 2.155 GB (2154991104 bytes) Restore Speed : 13.22 MB/sec Elapsed Time : 0h 2m 43s Bad Sectors : 0 Clearing computer memory Hashes of src and dst partitions Src SHA1 Hash: 7BDD19B23E43AB62042FBF47FAD69BB Dst SHA1 Hash: 7BDD19B23E43AB62042FBF47FAD69BB	s (40021 MB) rs (400099 MB) s (9105 MB) es	
Results:	Assertion & Expected Result	Actual Result	
	AM-03 Execution environment is XE.	as expected	
	AO-12 A clone is created from an image file.	as expected	
	AO-12 A Clone is created from an image life. AO-13 Clone created using interface AI.	as expected as expected	
	AO-14 An unaligned clone is created.	as expected as expected	
	AO-14 An unalighed clone is created. AO-17 Excess sectors are unchanged.	as expected as expected	
		<u> </u>	
	AO-23 Logged information is correct.	as expected	
Analysis:	Expected results achieved		

5.2.65 DA-14-THUMB

Test Case DA-	14-THUMB ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-14 Create an unaligned clone from an image file.	
Assertions:	AM-03 The tool executes in execution environment XE. 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-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	JohnSteed	
Test Date:	Wed May 10 11:01:08 2006	
Drives:	src(D2-THUMB) dst (D4-THUMB) other (4D-FU2)	
Source Setup:	<pre>src hash: < 712C9F59F598745977E4E19F235F83CE8F4EC7BA > 253400 total sectors (129740800 bytes) Model (TS128MJFLASHA) serial # () Removable media, no partition table.</pre>	
Log Highlights:	Comparision of original to clone Sectors compared: 253400 Sectors match: 253400 Sectors differ: 0 Bytes differ: 0 Diffs range	

```
Test Case DA-14-THUMB ILook IXimager Version 2.0, Feb 01 2006
               Source (253400) has 252456 fewer sectors than destination (505856)
               Zero fill:
               Src Byte fill (D2):
                                           0
               Dst Byte fill (D4): 252456
               Other fill:
               Other no fill:
                                            0
               Zero fill range:
               Src fill range:
               Dst fill range: 253400-505855
               Other fill range:
               Other not filled range:
               O source read errors, O destination read errors
               IXImager Log file
               hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63,
               UDMA(100)
               /dev/sda: I/O error reading 8 sectors, sector 0
               /dev/sda: I/O error reading 8 sectors, sector 0
               SCSI device sda: 505856 512-byte hdwr sectors (259 MB)
               SCSI device sdb: 781443888 512-byte hdwr sectors (400099 MB)
               SCSI device sda: 505856 512-byte hdwr sectors (259 MB)
               Initializing...
               Opened output device '/dev/sda'
               Beginning Restore operation for 129740800 bytes
               Beginning Restore operation
               Beginning Restore operation
               Restore Complete
               Restore was completed successfully.
               Read : 3.095 MB (3094822 bytes)
Written : 129.7 MB (129740800 bytes)
Total Processed: 129.7 MB (129740800 bytes)
               Restore Speed : 6.828 MB/sec
               Elapsed Time : Oh Om 19s
               Bad Sectors
               Clearing computer memory...
Results:
                Assertion & Expected Result
                                                                  Actual Result
                AM-03 Execution environment is XE.
                                                                 as expected
                AO-12 A clone is created from an image file.
                                                                 as expected
                AO-13 Clone created using interface AI.
                                                                 as expected
                AO-14 An unaligned clone is created.
                                                                 as expected
                AO-17 Excess sectors are unchanged.
                                                                 as expected
                AO-23 Logged information is correct.
                                                                 as expected
Analysis:
               Expected results achieved
```

5.2.66 DA-14-USB

Test Case DA-14-USB ILook IXimager Version 2.0, Feb 01 2006		
Description:	DA-14 Create an unaligned clone from an image file.	
Assertions:	AM-03 The tool executes in execution environment XE. 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-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	Freddy	
Test Date:	Mon Apr 3 15:57:26 2006	
Drives:	src(63-FU2) dst (85-FU2) other (4D-FU2)	
Source	src hash: < F7069EDCBEAC863C88DECED82159F22DA96BE99B >	

Test Case DA-	14-USB ILook IXimager Version 2.0, Feb 01 2006	
Setup:	117304992 total sectors (60060155904 bytes)	
	Model (SP0612N) serial # ()	
	N Start LBA Length Start C/H/S End C/H/S	boot Partition type
	1 P 000000063 004192902 0000/001/01 0260/254/	
	2 X 004192965 113097600 0261/000/01 1023/254/	0F extended
	3 S 000000063 113097537 0261/001/01 1023/254/	63 OB Fat32
	4 S 000000000 000000000 0000/000/00 0000/000/	00 00 empty entry
	5 P 000000000 000000000 0000/000/00 0000/000/ 6 P 000000000 00000000 0000/000/00 0000/000/	00 00 empty entry
	1 004192902 sectors 2146765824 bytes	00 00 empty entry
	3 113097537 sectors 57905938944 bytes	
	S IISOS7887 BOSCOID S7308380311 MYCCD	
Log		
Highlights:	Comparision of original to clone Sectors compared: 117304992	
	Sectors match: 117304992	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range	
	Source (117304992) has 43531488 fewer sectors	than destination (160836480)
	Zero fill: 0	•
	Src Byte fill (63): 0	
	Dst Byte fill (85): 43531488	
	Other fill: 0	
	Other no fill: 0	
	Zero fill range:	
	Src fill range: 117304992-160836479	
	Dst fill range: 117304992-160836479 Other fill range:	
	Other not filled range:	
	0 source read errors, 0 destination read error	s
	3.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	
	IXImager Log file	
	SCSI device sda: 160836480 512-byte hdwr secto	
	SCSI device sdc: 781443888 512-byte hdwr secto	
	SCSI device sda: 160836480 512-byte hdwr sectors (82348 MB) Initializing Opened output device '/dev/sda'	
	Beginning Restore operation for 60060155904 by	tes
	Beginning Restore operation	
	Beginning Restore operation Opened input file '/ILookImager/ILook.004/DA06	IICD002 ach!
		USB002.asb'
	continuing at byte 28178251776 Restoring from /ILook.004/DA06USB002.asb	
	Opened input file '/ILookImager/ILook.004/DA06	HSB003 ash!
	continuing at byte 56341823488	055003.455
	Restoring from /ILook.004/DA06USB003.asb	
	Restore Complete	
	Restore was completed successfully.	
	Read : 1.382 GB (1381727236 bytes)	
	Written : 60.06 GB (60060155904 bytes)	
	Total Processed: 60.06 GB (60060155904 bytes)	
	Restore Speed : 14.99 MB/sec	
	Elapsed Time : 1h 6m 46s	
	Bad Sectors : 0 Clearing computer memory	
	SISSIFING COMPACCE MEMOLY	
Results:		,
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	
UUD 137010 •	I HYDAULAG YACILLE BODLATAG	

5.2.67 DA-14-X2

Test Case DA-	14-X2 ILook IXimager Version 2.0, Feb 01 2006		
Description:			
Assertions:	AM-03 The tool executes in execution environment XE.		
	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-17 If requested, any excess sectors on a clone destination device are		
	not modified. AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
Tester Name:	brl		
Test Host:	Joe		
Test Date:	Mon Apr 24 15:56:52 2006		
Drives:	src(43) dst (2F) other (4D-FU2)		
Source	src hash: < 888E2E7F7AD237DC7A732281DD93F325065E5871 >		
Setup:	78125000 total sectors (4000000000 bytes)		
becap.	Model (0BB-75JHC0) serial # (WD-WMAMC46588)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63		
	2 X 020980890 057143205 1023/000/01 1023/254/63		
	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 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63		
	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		
	10 x 014731605 010490445 1023/000/01 1023/254/63		
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux		
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap		
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027712062 sectors 14188575744 bytes		
Tion			
Log Highlights:	IXImager Log file		
5 5	SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB)		
	SCSI device sdc: 78125000 512-byte hdwr sectors (40000 MB)		
	SCSI device sdd: 781443888 512-byte hdwr sectors (400099 MB)		
	SCSI device sdb: 17783249 512-byte hdwr sectors (9105 MB)		
	Initializing		
	Opened output device '/dev/sdb'		
	Beginning Restore operation for 5371075584 bytes		
	Beginning Restore operation		
	Beginning Restore operation		
	Restore Complete		
	Restore was completed successfully.		
	Read : 125.1 MB (125099895 bytes)		
	Written : 5.371 GB (5371075584 bytes)		
	Total Processed: 5.371 GB (5371075584 bytes)		
	Restore Speed : 12.91 MB/sec		
	Elapsed Time : 0h 6m 56s		
	Bad Sectors : 0		
	Clearing computer memory		

Test Case DA-14-X2 ILook IXimager Version 2.0, Feb 01 2006		
	Hashes of src and dst partitions Src SHA1 Hash: 283BCC32DE892C12C37698AF7E38703 Dst SHA1 Hash: 283BCC32DE892C12C37698AF7E38703	
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.68 DA-14-ZIP

Test Case DA-	14-ZIP ILook IXimager Version 2.0, Feb 01 2006	
	DA-14 Create an unaligned clone from an image file.	
Assertions:	s: AM-03 The tool executes in execution environment XE. 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 accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are	
	not modified.	
	AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	Nick	
Test Date:	Thu May 11 10:52:02 2006	
Drives:	src(E2-ZIP) dst (E1-ZIP) other (4D-FU2)	
Source	src hash: < AFEA6483060C6FAD1026B7094810674E91AEA5D7 >	
Setup:	196608 total sectors (100663296 bytes)	
	Model (ZIP 250) serial # () Removable media, no partition table.	
Log		
Highlights:	Comparision of original to clone Sectors compared: 196608 Sectors match: 196608 Sectors differ: 0 Bytes differ: 0 Diffs range Source (196608) has 292864 fewer sectors than destination (489472) Zero fill: 0 Src Byte fill (E2): 0 Dst Byte fill (E1): 292864 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 196608-489471 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors	
	IXImager Log file hda: 156250000 sectors (80000 MB) w/1821KiB Cache, CHS=9726/255/63, UDMA(100) SCSI device sda: 781443888 512-byte hdwr sectors (400099 MB) SCSI device sdb: 196608 512-byte hdwr sectors (101 MB) Initializing Opened output device '/dev/hdb' Beginning Restore operation for 100663296 bytes	

Test Case DA-	Test Case DA-14-ZIP ILook IXimager Version 2.0, Feb 01 2006	
Test Case DA-	Beginning Restore operation Beginning Restore operation Restore Complete Restore was completed successfully. Read : 2.432 MB (2432402 bytes) Written : 100.7 MB (100663296 bytes) Total Processed: 100.7 MB (100663296 bytes) Restore Speed : 1.213 MB/sec	
	Elapsed Time : 0h 1m 23s Bad Sectors : 0	
	Clearing computer memory	
Results:		
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.69 DA-17

Test Case DA-	17 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-17 Create a truncated clone from an image file.	
Assertions:	AM-03 The tool executes in execution environment XE. 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-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-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	Joe	
Test Date:	Fri May 26 14:50:36 2006	
Drives:	src(41) dst (5A) other (4D-FU2)	
Source Setup:	<pre>src hash: < 15CAA1A307271160D8372668BF8A03FC45A51CC9 > 78125000 total sectors (40000000000 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC4658355) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00</pre>	
Log Highlights:	Comparision of original to clone Sectors compared: 12692736 Sectors match: 12692736 Sectors differ: 0 Bytes differ: 0 Diffs range Source (78125000) has 65432264 more sectors than destination (12692736) 0 source read errors, 0 destination read errors IXImager Log file hda: 12692736 sectors (6498 MB) w/468KiB Cache, CHS=13431/15/63, UDMA(33) SCSI device sdb: 781443888 512-byte hdwr sectors (400099 MB) Initializing Opened output device '/dev/hda'	

Test Case DA-	-17 ILook IXimager Version 2.0, Feb 01 2006	
	Beginning Restore operation for 40000000000 by Beginning Restore operation Beginning Restore operation Your target device has run out of free space! Restore Aborted Restore was aborted.	tes
	Read : 150.1 MB (150142976 bytes) Written : 6.499 GB (6498680832 bytes) Total Processed: 6.501 GB (6500712448 bytes) Expected Size : 40.00 GB (400000000000 bytes) Restore Speed : 1.700 MB/sec Elapsed Time : 1h 3m 43s Bad Sectors : 0 Clearing computer memory	
Results:	Assertion & Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file. AO-13 Clone created using interface AI. AO-19 Truncated clone is created. AO-20 User notified that clone is truncated. AO-23 Logged information is correct.	Actual Result as expected
Analysis:	Expected results achieved	

5.2.70 DA-24

Test Case DA-	24 ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-24 Verify a valid image.	
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 Name:	Brl	
Test Host:	JohnSteed	
Test Date:	Tue May 16 11:02:54 2006	
Drives:	src(4D-FU2) dst (4D-FU2) other (none)	
Source	src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 >	
Setup:	17783249 total sectors (9105023488 bytes) Model (QM39100TD-SCA) serial # (PCB=20-116711-06 HDAQM39100TD-SCA) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 017751762 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 0000000000 0000/000/00 0000/000/00 3 P 000000000 000000000 0000/000/00 0000/000/00 4 P 000000000 000000000 0000/000/00 0000/000/00 00 empty entry 4 P 000000000 000000000 0000/000/00 0000/000/00 1 017751762 sectors 9088902144 bytes	
Log Highlights:	IXImager Log file hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 781443888 512-byte hdwr sectors (400099 MB) Initializing Beginning Verify operation for 9105023488 bytes Beginning Verify operation Beginning Verify operation Verify Complete Verify was completed successfully. Read : 606.9 MB (606900616 bytes) Written : 0.000 MB (0 bytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 31.84 MB/sec Elapsed Time : 0h 4m 46s	

Test Case DA-	Test Case DA-24 ILook IXimager Version 2.0, Feb 01 2006		
	Bad Sectors : 0 SHA-1 Value : f5f9f2903dcab895f36e270fb : for 9105023488 bytes Clearing computer memory	22a722e27918125	
Results:			
	Assertion & Expected Result	Actual Result	
	AM-03 Execution environment is XE.	as expected	
	AO-06 Tool verifies image file unchanged.	as expected	
	AO-23 Logged information is correct.	as expected	
Analysis:	Expected results achieved		

5.2.71 DA-25

Test Case DA-	25 ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-25 Detect a corrupted image.
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.
Tester Name:	Brl
Test Host:	JohnSteed
Test Date:	Tue May 16 11:05:04 2006
Drives:	src(4D-FU2) dst (4D-FU2) other (none)
Source	src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 >
Setup:	17783249 total sectors (9105023488 bytes) Model (QM39100TD-SCA) serial # (PCB=20-116711-06 HDAQM39100TD-SCA) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 017751762 0000/000/10 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00
Log Highlights:	IXImager Log file hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 781443888 512-byte hdwr sectors (400099 MB) Initializing Beginning Verify operation for 9105023488 bytes Beginning Verify operation Opened input file '/ILookImager/ILook.022/DA10RAW002.asb' continuing at byte 646709248 Calculating SHA-1 hash of /ILook.022/DA10RAW003.asb' Opened input file '/ILookImager/ILook.022/DA10RAW003.asb' continuing at byte 1293418496 Calculating SHA-1 hash of /ILook.022/DA10RAW003.asb Opened input file '/ILookImager/ILook.022/DA10RAW004.asb' continuing at byte 1940127744 Calculating SHA-1 hash of /ILook.022/DA10RAW004.asb Opened input file '/ILookImager/ILook.022/DA10RAW005.asb' continuing at byte 2586836992 Calculating SHA-1 hash of /ILook.022/DA10RAW005.asb Opened input file '/ILookImager/ILook.022/DA10RAW006.asb' continuing at byte 3233546240 Calculating SHA-1 hash of /ILook.022/DA10RAW006.asb Opened input file '/ILookImager/ILook.022/DA10RAW007.asb' continuing at byte 3880255488 Calculating SHA-1 hash of /ILook.022/DA10RAW007.asb Opened input file '/ILookImager/ILook.022/DA10RAW007.asb Opened input file '/ILookImager/ILook.022/DA10RAW007.asb Opened input file '/ILookImager/ILook.022/DA10RAW007.asb

Test Case DA-	25 ILook IXimager Version 2.0, Feb 01 2006	
	continuing at byte 4526964736 Calculating SHA-1 hash of /ILook.022/DA10RAW008.0 Opened input file '/ILookImager/ILook.022/DA10RAW008.0 Continuing at byte 5173673984 Calculating SHA-1 hash of /ILook.022/DA10RAW009.0 Opened input file '/ILookImager/ILook.022/DA10RAW009.0 Continuing at byte 5820383232 Calculating SHA-1 hash of /ILook.022/DA10RAW010.0 An error occurred while trying to verify the data the original source device. The checksum for the currently stored at this position does not match archived as part of segment -4691104391841710080 created. This generally indicates that your image corrupted.	w009.asb' asb w010.asb' asb a at offset 5821235200 from e 88826 bytes of data the checksum that was when the image file was
Develo	SHA-1 Value : 70a130944f45a41c23b0ffaae01958 : for 9105023488 bytes Clearing computer memory	ae340491e3
Results:	Assertion & Expected Result AM-03 Execution environment is XE. AO-07 User notified if image file has changed. AO-08 User notified of changed locations. AO-23 Logged information is correct.	Actual Result as expected as expected as expected as expected
Analysis:	Expected results achieved	

5.2.72 DA-26-d2dd

Test Case DA-	26-d2dd ILook IXimager Version 2.0, Feb 01 2006
Description:	DA-26 Convert an image to an alternate image file format.
Assertions:	AM-03 The tool executes in execution environment XE. AO-09 If the tool converts a source image file from one format to a 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 information is accurately recorded in the log file.
Tester Name:	Brl
Test Host:	JohnSteed
Test Date:	Tue May 16 11:07:57 2006
Drives:	src(4D-FU2) dst (4D-FU2) other (none)

Test Case DA-26-d2dd ILook IXimager Version 2.0, Feb 01 2006			
Source	src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 >		
Setup:	17783249 total sectors (9105023488 bytes) Model (QM39100TD-SCA) serial # (PCB=20-116711-06 HDAQM39100TD-SCA) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 017751762 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 00000000 0000/000/00 0000/000/00 00		
Log Highlights:	IXImager Log file hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDDMA(100) SCSI device sda: 781443888 512-byte hdwr sectors (400099 MB) Initializing Opened output file '/ILookImager/ILook.032/DA06SCSI001.asb' Beginning Copy operation Opened output file '/ILookImager/ILook.032/DA06SCSI002.asb' continuing at byte 649986048 Copy is being stored to /ILook.032/DA06SCSI002.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI003.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI003.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI003.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI003.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI004.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI004.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI005.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI005.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI005.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI006.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI007.asb' Copy is being stored to /ILook.032/DA06SCSI006.asb Opened output file '/ILookImager/ILook.032/DA06SCSI007.asb' Copy is being stored to /ILook.032/DA06SCSI006.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI007.asb' Copy is being stored to /ILook.032/DA06SCSI008.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI008.asb' Copy is being stored to /ILook.032/DA06SCSI008.asb' Copy is being stored to /ILook.032/DA06SCSI008.asb' Copy is being stored to /ILook.032/DA06SCSI009.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI009.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI010.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI011.asb' Continuing at byte 583567072 Copy is being stored to /ILook.032/DA06SCSI011.asb' Copy is being stored to /ILook.032/DA06SCSI011.asb' Opened output file '/ILookImager/ILook.032/DA06SCSI013.asb' Copy is being stored to /ILook.032/DA06SCSI013.asb' Copy is being stored to /ILook.032/DA06SCSI013.asb' Copy is being stor		
	SHA-1 Value : f5f9f2903dcab895f36e270fb22a722e27918125 : for 9105023488 bytes		

Test Case DA-	Case DA-26-d2dd ILook IXimager Version 2.0, Feb 01 2006		
	Clearing computer memory		
	Initializing		
	Beginning Verify operation for 9105023488 bytes		
	Beginning Verify operation		
	Beginning Verify operation		
	Verify Complete		
	Verify was completed successfully.		
	Read : 606.9 MB (606900616 by	tes)	
	Written : 0.000 MB (0 bytes)		
	Total Processed: 9.105 GB (9105023488 b	ytes)	
	Verify Speed : 31.84 MB/sec		
	Elapsed Time : 0h 4m 46s		
	Bad Sectors : 0		
	SHA-1 Value : f5f9f2903dcab895f36e27	0tb22a722e27918125	
	: for 9105023488 bytes		
	Clearing computer memory		
	Initializing Beginning Verify operation for 910502348	0 byst og	
	Beginning Verify operation for 910502546	o byces	
	Beginning Verify operation		
	Beginning Verify operation Verify Complete		
	Verify was completed successfully.		
	verify was completed successfully.		
	Read : 606.9 MB (606938395 bytes)		
	Written : 0.000 MB (0 bytes)		
	Total Processed: 9.105 GB (9105023488 b	ytes)	
	Verify Speed : 31.61 MB/sec		
	Elapsed Time : 0h 4m 48s		
	Bad Sectors : 0		
	SHA-1 Value : f5f9f2903dcab895f36e270fb22a722e27918125		
	: for 9105023488 bytes		
	Clearing computer memory		
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		

5.2.73 DA-26-D2E

Test Case DA-	26-D2E ILook IXimager Version 2.0, Feb 01 2006		
Description:	DA-26 Convert an image to an alternate image file format.		
Assertions:	AM-03 The tool executes in execution environment XE.		
	AO-09 If the tool converts a source image file from one format to a 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 information is		
	accurately recorded in the log file.		
Tester Name:	Brl		
Test Host:	JohnSteed		
Test Date:	Tue May 16 11:06:27 2006		
Drives:	src(4D-FU2) dst (4D-FU2) other (none)		
Source	src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 >		
Setup:	17783249 total sectors (9105023488 bytes)		
	Model (QM39100TD-SCA) serial # (PCB=20-116711-06 HDAQM39100TD-SCA)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 017751762 0000/001/01 1023/254/63 Boot 07 NTFS		
	2 P 000000000 000000000 0000/000/00 0000/000/00 00		
	3 P 000000000 000000000 0000/000/00 00 00 empty entry		
	4 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 01//31/02 Sectors 3000302144 Dytes		
Log			
Highlights:	IXImager Log file		

```
Test Case DA-26-D2E ILook IXimager Version 2.0, Feb 01 2006
               hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63,
               UDMA(100)
               SCSI device sda: 781443888 512-byte hdwr sectors (400099 MB)
               User selected ILook Encrypted Image Format
               Initializing..
               Opened output file '/ILookImager/ILook.027/DA06SCSI001.asb'
               Beginning Copy operation for 9105023488 bytes
               Beginning Copy operation
               Beginning Copy operation
               Copy Complete
               Copy was completed successfully.
                              : 606.9 MB (606900616 bytes)
               Read
               Written : 609.1 MB (609122162 bytes)
Total Processed: 9.105 GB (9105023488 bytes)
               Copy Speed : 20.51 MB/sec
               Elapsed Time : 0h 7m 24s
Compression : 93.31%
Bad Sectors : 0
               Bad Sectors
                              : 0
               SHA-1 Value : f5f9f2903dcab895f36e270fb22a722e27918125
                               : for 9105023488 bytes
               Clearing computer memory...
               Initializing...
               Beginning Verify operation for 9105023488 bytes
               Beginning Verify operation
               Beginning Verify operation
               Verify Complete
               Verify was completed successfully.
                              : 606.9 MB (606900616 bytes)
               Written : 0.000 MB (0 bytes)
Total Processed: 9.105 GB (9105023488 bytes)
               Verify Speed : 31.72 MB/sec
               Elapsed Time : 0h 4m 47s
               Bad Sectors
                              : 0
                              : f5f9f2903dcab895f36e270fb22a722e27918125
               SHA-1 Value
                              : for 9105023488 bytes
               Clearing computer memory...
               Initializing...
               Beginning Verify operation for 9105023488 bytes
               Beginning Verify operation
               Beginning Verify operation
               Verify Complete
               Verify was completed successfully.
                              : 609.1 MB (609122162 bytes)
               Written
                           : 0.000 MB (0 bytes)
               Total Processed: 9.105 GB (9105023488 bytes)
               Verify Speed : 30.25 MB/sec
Elapsed Time : 0h 5m 1s
               Bad Sectors
                              : 0
                              : f5f9f2903dcab895f36e270fb22a722e27918125
               SHA-1 Value
                               : for 9105023488 bytes
               Clearing computer memory...
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
```

5.2.74 DA-26-D2R

Test Case DA-26-D2R ILook IXimager Version 2.0, Feb 01 2006		
Description:	DA-26 Convert an image to an alternate image file format.	
Assertions:	AM-03 The tool executes in execution environment XE.	
	AO-09 If the tool converts a source image file from one format to a target	
	image file in another format, the acquired data represented in the target	

Test Case DA-	26-D2R ILook IXimager Version 2.0, Feb 01 2006		
	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 information is accurately recorded in the log file.		
Tester Name:	Brl		
Test Host:	JohnSteed		
Test Date:	Tue May 16 11:06:44 2006		
Drives:	src(4D-FU2) dst (4D-FU2) other (none)		
Source Setup:	<pre>src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 > 17783249 total sectors (9105023488 bytes) Model (QM39100TD-SCA) serial # (PCB=20-116711-06 HDAQM39100TD-SCA) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 017751762 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00</pre>		
Log Highlights:	IXImager Log file hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDNA(100) SCSI device sda: 781443888 512-byte hdwr sectors (400099 MB) User selected ILook Raw Image Format Initializing Opened output file '/ILookImager/ILook.028/DA06SCSI001.asb' Beginning Copy operation for 9105023488 bytes Beginning Copy operation Opened output file '/ILookImager/ILook.028/DA06SCSI002.asb' continuing at byte 648675328 Copy is being stored to /ILook.028/DA06SCSI003.asb' continuing at byte 1295384576 Copy is being stored to /ILook.028/DA06SCSI003.asb' continuing at byte 1942093824 Copy is being stored to /ILook.028/DA06SCSI003.asb' continuing at byte 1942093824 Copy is being stored to /ILook.028/DA06SCSI003.asb' continuing at byte 1942093824 Copy is being stored to /ILook.028/DA06SCSI005.asb' opened output file '/ILookImager/ILook.028/DA06SCSI005.asb' continuing at byte 2588803072 Copy is being stored to /ILook.028/DA06SCSI005.asb' continuing at byte 3235513220 Copy is being stored to /ILook.028/DA06SCSI005.asb' Opened output file '/ILookImager/ILook.028/DA06SCSI006.asb' continuing at byte 3325513220 Copy is being stored to /ILook.028/DA06SCSI005.asb' Opened output file '/ILookImager/ILook.028/DA06SCSI007.asb' Opened output file '/ILookImager/ILook.028/DA06SCSI008.asb' continuing at byte 3882221568 Copy is being stored to /ILook.028/DA06SCSI009.asb' continuing at byte 4528930816 Copy is being stored to /ILook.028/DA06SCSI009.asb' continuing at byte 5875640064 Copy is being stored to /ILook.028/DA06SCSI009.asb' continuing at byte 5875640064 Copy is being stored to /ILook.028/DA06SCSI010.asb Opened output file '/ILookImager/ILook.028/DA06SCSI010.asb Opened output file '/ILookImager/ILook.028/DA06SCSI011.asb Opened output file '/ILookImager/ILook.028/DA06SCSI011.asb Opened output file '/ILookImager/ILook.028/DA06SCSI011.asb Opened output file '/ILookImager/ILook.028/DA06SCSI011.asb Opened output file '/ILookImager/ILook.028/DA06SCSI013.asb Opened output file '/ILookImager/ILook.028/DA06SCSI013.asb Opened out		

```
Test Case DA-26-D2R ILook IXimager Version 2.0, Feb 01 2006
                             : 606.9 MB (606900616 bytes)
              Written : 9.123 GB (9122743904 bytes)
Total Processed: 9.105 GB (9105023488 bytes)
              Copy Speed : 10.29 MB/sec
              Elapsed Time : Oh 14m 45s
              Bad Sectors
                             : 0
                              : f5f9f2903dcab895f36e270fb22a722e27918125
              SHA-1 Value
                              : for 9105023488 bytes
              Clearing computer memory...
              Initializing..
              Beginning Verify operation for 9105023488 bytes
              Beginning Verify operation
              Beginning Verify operation
              Verify Complete
              Verify was completed successfully.
                              : 606.9 MB (606900616 bytes)
              Written
                             : 0.000 MB (0 bytes)
              Total Processed: 9.105 GB (9105023488 bytes)
              Verify Speed : 31.72 MB/sec
Elapsed Time : 0h 4m 47s
              Bad Sectors
                            : 0
                            : f5f9f2903dcab895f36e270fb22a722e27918125
: for 9105023488 bytes
              SHA-1 Value
              Clearing computer memory...
              Initializing...
              Beginning Verify operation for 9105023488 bytes
              Beginning Verify operation
              Beginning Verify operation
              Opened input file '/ILookImager/ILook.028/DA06SCSI002.asb'
              continuing at byte 646709248
              Calculating SHA-1 hash of /ILook.028/DA06SCSI002.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI003.asb'
              continuing at byte 1293418496
              Calculating SHA-1 hash of /ILook.028/DA06SCSI003.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI004.asb'
              continuing at byte 1940127744
              Calculating SHA-1 hash of /ILook.028/DA06SCSI004.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI005.asb'
              continuing at byte 2586836992
              Calculating SHA-1 hash of /ILook.028/DA06SCSI005.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI006.asb'
              continuing at byte 3233546240
              Calculating SHA-1 hash of /ILook.028/DA06SCSI006.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI007.asb'
              continuing at byte 3880255488
              Calculating SHA-1 hash of /ILook.028/DA06SCSI007.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI008.asb'
              continuing at byte 4526964736
              Calculating SHA-1 hash of /ILook.028/DA06SCSI008.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI009.asb'
              continuing at byte 5173673984
              Calculating SHA-1 hash of /ILook.028/DA06SCSI009.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI010.asb'
              continuing at byte 5820383232
              Calculating SHA-1 hash of /ILook.028/DA06SCSI010.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI011.asb'
              continuing at byte 6467092480
              Calculating SHA-1 hash of /ILook.028/DA06SCSI011.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI012.asb'
              continuing at byte 7113801728
              Calculating SHA-1 hash of /ILook.028/DA06SCSI012.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI013.asb'
              continuing at byte 7760510976
              Calculating SHA-1 hash of /ILook.028/DA06SCSI013.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI014.asb'
              continuing at byte 8407220224
              Calculating SHA-1 hash of /ILook.028/DA06SCSI014.asb
              Opened input file '/ILookImager/ILook.028/DA06SCSI015.asb'
              continuing at byte 9053929472
              Calculating SHA-1 hash of /ILook.028/DA06SCSI015.asb
              Verify Complete
```

Test Case DA-26-D2R ILook IXimager Version 2.0, Feb 01 2006			
	Verify was completed successfully.		
	Read : 9.123 GB (9122743904 by Written : 0.000 MB (0 bytes) Total Processed: 9.105 GB (9105023488 by Verify Speed : 12.00 MB/sec Elapsed Time : 0h 12m 39s Bad Sectors : 0 SHA-1 Value : f5f9f2903dcab895f36e27 : for 9105023488 bytes Clearing computer memory	ytes)	
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		

5.2.75 DA-26-e2d

Test Case DA-	26-e2d ILook IXimager Version 2.0, Feb 01 2006	
Description:	DA-26 Convert an image to an alternate image file format.	
Assertions:	AM-03 The tool executes in execution environment XE. AO-09 If the tool converts a source image file from one format to a 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 information is accurately recorded in the log file.	
Tester Name:	Brl	
Test Host:	JohnSteed	
Test Date:	Tue May 16 11:07:04 2006	
Drives:	src(4D-FU2) dst (4D-FU2) other (none)	
Source	src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 >	
Setup:	17783249 total sectors (9105023488 bytes) Model (QM39100TD-SCA) serial # (PCB=20-116711-06 HDAQM39100TD-SCA) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 017751762 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 0000000000 0000/000/00 0000/000/00 3 P 000000000 000000000 0000/000/00 0000/000/00 4 P 000000000 000000000 0000/000/00 0000/000/00 5 empty entry 4 P 000000000 000000000 0000/000/00 0000/000/00 1 00 empty entry 1 017751762 sectors 9088902144 bytes	
Log Highlights:	IXImager Log file hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63, UDMA(100) SCSI device sda: 781443888 512-byte hdwr sectors (400099 MB) User selected ILook Default Image Format Initializing Opened output file '/ILookImager/ILook.033/DA10ENCRYPTED001.asb' Beginning Copy operation for 9105023488 bytes Beginning Copy operation Beginning Copy operation Copy Complete Copy was completed successfully. Read : 609.1 MB (609137424 bytes)	
	Written : 606.9 MB (606897233 bytes) Total Processed: 9.105 GB (9105023488 bytes) Copy Speed : 20.41 MB/sec Elapsed Time : 0h 7m 26s Compression : 93.33% Bad Sectors : 0 SHA-1 Value : f5f9f2903dcab895f36e270fb22a722e27918125 : for 9105023488 bytes Clearing computer memory	

Test Case DA-26-e2d ILook IXimager Version 2.0, Feb 01 2006			
Test Case DA-	Initializing Beginning Verify operation for 9105023488 bytes Beginning Verify operation Beginning Verify operation Verify Complete Verify was completed successfully. Read : 609.1 MB (609137424 bytes) Written : 0.000 MB (0 bytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 29.85 MB/sec Elapsed Time : 0h 5m 5s Bad Sectors : 0 SHA-1 Value : f5f9f2903dcab895f36e270fb22a722e27918125 : for 9105023488 bytes		
	Clearing computer memory Initializing Beginning Verify operation for 9105023488 bytes Beginning Verify operation Beginning Verify operation Verify Complete Verify was completed successfully.		
	Read : 606.9 MB (606897233 bytes) Written : 0.000 MB (0 bytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 31.84 MB/sec Elapsed Time : 0h 4m 46s Bad Sectors : 0 SHA-1 Value : f5f9f2903dcab895f36e270fb22a722e27918125		
Results:	Assertion & Expected Result AM-03 Execution environment is XE. AO-09 Tool converts image file format. AO-23 Logged information is correct.	Actual Result as expected as expected as expected	
Analysis:	Expected results achieved		

5.2.76 DA-26-r2d

Test Case DA-	Test Case DA-26-r2d ILook IXimager Version 2.0, Feb 01 2006		
Description:			
Assertions:	AM-03 The tool executes in execution environment XE. AO-09 If the tool converts a source image file from one format to a 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 information is accurately recorded in the log file.		
Tester Name:	Brl		
Test Host:	JohnSteed		
Test Date:	Tue May 16 11:07:39 2006		
Drives:	src(4D-FU2) dst (4D-FU2) other (none)		
Source Setup:	<pre>src hash: < F5F9F2903DCAB895F36E270FB22A722E27918125 > 17783249 total sectors (9105023488 bytes) Model (QM39100TD-SCA) serial # (PCB=20-116711-06 HDAQM39100TD-SCA) N Start LBA Length</pre>		
Log Highlights:	IXImager Log file hda: 156301488 sectors (80026 MB) w/8192KiB Cache, CHS=9729/255/63,		

```
Test Case DA-26-r2d ILook IXimager Version 2.0, Feb 01 2006
              UDMA (100)
              SCSI device sda: 781443888 512-byte hdwr sectors (400099 MB)
              User selected ILook Default Image Format
              Initializing..
              Opened output file '/ILookImager/ILook.034/DA10RAW001.asb'
              Beginning Copy operation for 9105023488 bytes
              Beginning Copy operation
              Beginning Copy operation
              Opened input file '/ILookImager/ILook.022/DA10RAW002.asb'
              continuing at byte 646709248
              Making a copy of /ILook.022/DA10RAW002.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW003.asb'
              continuing at byte 1293418496
              Making a copy of /ILook.022/DA10RAW003.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW004.asb'
              continuing at byte 1940127744
              Making a copy of /ILook.022/DA10RAW004.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW005.asb'
              continuing at byte 2586836992
              Making a copy of /ILook.022/DA10RAW005.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW006.asb'
              continuing at byte 3233546240
              Making a copy of /ILook.022/DA10RAW006.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW007.asb'
              continuing at byte 3880255488
              Making a copy of /ILook.022/DA10RAW007.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW008.asb'
              continuing at byte 4526964736
              Making a copy of /ILook.022/DA10RAW008.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW009.asb'
              continuing at byte 5173673984
              Making a copy of /ILook.022/DA10RAW009.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW010.asb'
              continuing at byte 5820383232
              Making a copy of /ILook.022/DA10RAW010.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW011.asb'
              continuing at byte 6467092480
              Making a copy of /ILook.022/DA10RAW011.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW012.asb'
              continuing at byte 7113801728
              Making a copy of /ILook.022/DA10RAW012.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW013.asb'
              continuing at byte 7760510976
              Making a copy of /ILook.022/DA10RAW013.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW014.asb'
              continuing at byte 8407220224
              Making a copy of /ILook.022/DA10RAW014.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW015.asb'
              continuing at byte 9053929472
              Making a copy of /ILook.022/DA10RAW015.asb
              Copy Complete
              Copy was completed successfully.
                             : 9.123 GB (9122743904 bytes)
              Read
              Written
                             : 606.9 MB (606936490 bytes)
              Total Processed: 9.105 GB (9105023488 bytes)
Copy Speed : 9.188 MB/sec
              Elapsed Time
                             : 0h 16m 31s
                           : 93.33%
              Compression
              Bad Sectors
                             : f5f9f2903dcab895f36e270fb22a722e27918125
              SHA-1 Value
                             : for 9105023488 bytes
              Clearing computer memory...
              Initializing..
              Beginning Verify operation for 9105023488 bytes
              Beginning Verify operation
              Beginning Verify operation
              Opened input file '/ILookImager/ILook.022/DA10RAW002.asb'
              continuing at byte 646709248
              Calculating SHA-1 hash of /ILook.022/DA10RAW002.asb
              Opened input file '/ILookImager/ILook.022/DA10RAW003.asb'
              continuing at byte 1293418496
              Calculating SHA-1 hash of /ILook.022/DA10RAW003.asb
```

Opened input files / International Continuing at byte 1901/2744 Calculating SIM-1 hash of /ILOCk.022/DA10RAM004.ash on thinking siM-1 hash of /ILOck.022/DA10RAM005.ash opened input file //ILOckImager/ILOck.022/DA10RAM005.ash opened input file //ILOckImager/ILOck.022/DA10RAM005.ash opened input file //ILOckImager/ILOck.022/DA10RAM005.ash opened input file //ILOckImager/ILOck.022/DA10RAM006.ash opened input file //ILOckImager/ILOck.022/DA10RAM007.ash opened input file //ILOckImager/ILOck.022/DA10RAM007.ash opened input file //ILOckImager/ILOck.022/DA10RAM007.ash opened input file //ILOckImager/ILOck.022/DA10RAM008.ash opened input file //ILOckImager/ILOck.022/DA10RAM008.ash opened input file //ILOckImager/ILOck.022/DA10RAM008.ash ocntinning at byte 5820864736 Calculating SIM-1 hash of /ILOck.022/DA10RAM008.ash opened input file //ILOckImager/ILOck.022/DA10RAM009.ash opened input file //ILOckImager/ILOck.022/DA10RAM010.ash ocntinning at byte 5820883232 Calculating SIM-1 hash of /ILOck.022/DA10RAM010.ash opened input file //ILOckImager/ILOck.022/DA10RAM010.ash opened input file //ILOckImager/ILOck.022/DA10RAM010.ash opened input file //ILOckImager/ILOck.022/DA10RAM010.ash opened input file //ILOckImager/ILOck.022/DA10RAM011.ash opened input file //ILOckImager/ILOck.022/DA10RAM011.ash opened input file //ILOckImager/ILOck.022/DA10RAM012.ash opened input file //ILOckImager/ILOck.022/DA10RAM013.ash o	Test Case DA-	26-r2d ILook IXimager Version 2.0, Feb 01	2006	
contimining StA-1 hash of /TLOok.022/DA10RAW004.asb Opened input file '/ILOokImager/ILOok.022/DA10RAW005.asb' contimining at byte 288638992 Calculating StA-1 hash of /ILook.022/DA10RAW005.asb Opened input file '/ILookImager/ILook.022/DA10RAW005.asb Opened input file '/ILookImager/ILook.022/DA10RAW006.asb' Calculating StA-1 hash of /ILook.022/DA10RAW007.asb' contimining stA byte 3880255888 Calculating StA-1 hash of /ILook.022/DA10RAW007.asb Opened input file '/ILookImager/ILook.022/DA10RAW007.asb Opened input file '/ILookImager/ILook.022/DA10RAW008.asb' contimining at byte 485264736 Calculating StA-1 hash of /ILook.022/DA10RAW008.asb Opened input file '/ILookImager/ILook.022/DA10RAW008.asb' contimining at byte 485264736 Calculating StA-1 hash of /ILook.022/DA10RAW009.asb Opened input file '/ILookImager/ILook.022/DA10RAW009.asb Opened input file '/ILookImager/ILook.022/DA10RAW009.asb Opened input file '/ILookImager/ILook.022/DA10RAW010.asb Opened input file '/ILookImager/ILook.022/DA10RAW010.asb Opened input file '/ILookImager/ILook.022/DA10RAW011.asb Opened input file '/ILookImager/ILook.022/DA10RAW013.asb Opened input file '/ILookImager/ILook.022/DA10RAW014.asb' Contimining at byte 805392847 Calculating StA-1 hash of /ILook.022/DA10RAW014.asb' Contimining at byte 805392847 Calculating StA-1 hash of /ILook.022/DA10RAW014.asb' Contimining a	TEST CASE DA-			
Calculating SMA-1 hash of /TLOOK.022/DAIORAMO04.asb Opened input file '/ILOOKInager/ILOOK.022/DAIORAMO05.asb' contiming at byte 288838992 Calculating SMA-1 hash of /TLOOK.022/DAIORAMO05.asb Opened input file '/ILOOKInager/ILOOK.022/DAIORAMO06.asb' contimining at byte 33346240 Calculating SMA-1 hash of /TLOOK.022/DAIORAMO07.asb opened input file '/ILOOKINAGE ALOOK.022/DAIORAMO07.asb Opened input file '/ILOOKINAGE ALOOK.022/DAIORAMO07.asb Opened input file '/ILOOKINAGE ALOOK.022/DAIORAMO07.asb Opened input file '/ILOOKINAGE ALOOK.022/DAIORAMO08.asb Opened input file '/ILOOKINAGE ALOOK.022/DAIORAMO10.asb Opened input file '/ILOOKINAGE ALOOK.022/DAIORAMO10.asb Opened input file '/ILOOKINAGE ALOOK.022/DAIORAMO11.asb Opened input file '/ILOOKINAGE ALOOK.022/DAIORAMO11.asb Opened input file '/ILOOKINAGE ALOOK.022/DAIORAMO12.asb Opened input file '/ILOOKINAGE ALOOK.022/DAIORAMO12.asb Opened input file '/ILOOKINAGE ALOOK.022/DAIORAMO13.asb Opened input file '/ILOOKINAGE ALOOK 022/DAIORAMO13.asb Opened input file '/ILOOKINAGE ALOOK			Z/DAIORAWUU4.abu	
Opened input file '/ILOokImager/ILook.022/DAIORAMO05.asb' continuing at byte 288838992 Calculating SNA-1 hash of /ILook.022/DAIORAMO06.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO06.asb' continuing at byte 3233546240 Calculating SNA-1 hash of /ILook.022/DAIORAMO06.asb' Opened input file '/ILOokImager/ILOok.022/DAIORAMO07.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO07.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO08.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO08.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO08.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO08.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO09.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO09.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO09.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO01.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO10.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO11.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO11.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO11.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO12.asb Opened input file '/ILOokImager/ILOok.022/DAIORAMO13.asb				
continuing SMA-1 hash of /ILOok.022/DA10RAW005.asb Opened input file '/ILOokImager/ILOok.022/DA10RAW005.asb' continuing at byte 323346240 Calculating SMA-1 hash of /ILOok.022/DA10RAW007.asb' Continuing at hyte 323346240 Calculating SMA-1 hash of /ILOok.022/DA10RAW007.asb' Continuing at hyte 32346240 Continuing at byte 32346240 Continuing at byte 4526964736 Continuing at byte 4526964736 Continuing at byte 4526964736 Calculating SMA-1 hash of /ILOok.022/DA10RAW007.asb on:iming at byte 4526964736 Calculating SMA-1 hash of /ILOok.022/DA10RAW008.asb opened input file '/ILOokImager/ILOOk.022/DA10RAW009.asb' Continuing at byte 5373673984 Calculating SMA-1 hash of /ILOok.022/DA10RAW009.asb' Continuing at byte 532038232 Calculating SMA-1 hash of /ILOok.022/DA10RAW010.asb opened input file '/ILOokImager/ILOOk.022/DA10RAW011.asb on:iming sMA-1 hash of /ILOok.022/DA10RAW011.asb opened input file '/ILOokImager/ILOOk.022/DA10RAW011.asb opened input file '/ILOokImager/ILOOk.022/DA10RAW012.asb' Continuing at byte 6467092480 Calculating SMA-1 hash of /ILOok.022/DA10RAW012.asb opened input file '/ILOokImager/ILOok.022/DA10RAW012.asb' Continuing at byte 7760510976 Calculating SMA-1 hash of /ILOok.022/DA10RAW013.asb Opened input file '/ILOokImager/ILOok.022/DA10RAW013.asb Opened input file '/ILOokImager/ILOok.022/DA10RAW015.asb Opened input file '/ILOokImager/ILOok.022/DA10RAW015.asb Opened input file '/ILOokImager/ILOok.022/DA10RAW015.asb Opened input file '/ILOokImager/ILOok.022/DA10RAW015.asb Opened input file '/ILOokImager/				
Calculating SHA-1 hash of //ILock.022/DA10RAW06.ash' Opened input file '/ILockImager/ILock.022/DA10RAW06.ash' continuing at byte 3233546240 Calculating SHA-1 hash of //ILock.022/DA10RAW006.ash' Opened input file '/ILockImager/ILock.022/DA10RAW007.ash' Opened input file '/ILockImager/ILock.022/DA10RAW007.ash' Opened input file '/ILockImager/ILock.022/DA10RAW008.ash' Opened input file '/ILockImager/ILock.022/DA10RAW008.ash' Opened input file '/ILockImager/ILock.022/DA10RAW009.ash' Opened input file '/ILockImager/ILock.022/DA10RAW009.ash' Opened input file '/ILockImager/ILock.022/DA10RAW009.ash' Opened input file '/ILockImager/ILock.022/DA10RAW010.ash' Opened input file '/ILockImager/ILock.022/DA10RAW010.ash' Opened input file '/ILockImager/ILock.022/DA10RAW011.ash' Opened input file '/ILockImager/ILock.022/DA10RAW011.ash' Opened input file '/ILockImager/ILock.022/DA10RAW011.ash' Opened input file '/ILockImager/ILock.022/DA10RAW012.ash' Opened input file '/ILockImager/ILock.022/DA10RAW013.ash' Opened input file '/ILockImager/ILock.022/DA10RAW013.a				
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Calculating SHA-1 hash of /ILook.022/DAIORAMO07.asb Opened input file '/ILookImager/ILook.022/DAIORAMO07.asb continuing at byte 3880255488 Calculating SHA-1 hash of /ILook.022/DAIORAMO08.asb Opened input file '/ILookImager/ILook.022/DAIORAMO8.asb Opened input file '/ILookImager/ILook.022/DAIORAMO8.asb Opened input file '/ILookImager/ILook.022/DAIORAMO8.asb Opened input file '/ILookImager/ILook.022/DAIORAMO9.asb continuing at byte 517367384 Calculating SHA-1 hash of /ILook.022/DAIORAMO9.asb continuing at byte 5820383332 Calculating SHA-1 hash of /ILook.022/DAIORAMO10.asb Opened input file '/ILookImager/ILook.022/DAIORAMO10.asb Opened input file '/ILookImager/ILook.022/DAIORAMO11.asb Opened input file '/ILookImager/ILook.022/DAIORAMO13.asb Opened input file '/ILookImager/ILook.022/DAIORAMO14.asb Opened input file '/ILookImager/ILook.022/DAIORAMO15.asb Opened input file '/ILookImager/ILook.022/DAIORAMO15.asb Opened input file '/ILookImager/ILook.022/DA				
Opened input file '/ILookImager/ILook.022/DA10RAM007.asb' continuing at byte 3880255488 Calculating SHA-1 hash of /ILook.022/DA10RAM007.asb Opened input file '/ILookImager/ILook.022/DA10RAM008.asb' continuing at byte 4526964736 Calculating SHA-1 hash of /ILook.022/DA10RAM008.asb Opened input file '/ILookImager/ILook.022/DA10RAM009.asb' continuing at byte 517267384 Calculating SHA-1 hash of /ILook.022/DA10RAM019.asb Opened input file '/ILookImager/ILook.022/DA10RAM010.asb' continuing at byte 552038332 Calculating SHA-1 hash of /ILook.022/DA10RAM010.asb' continuing at byte 552038332 Calculating SHA-1 hash of /ILook.022/DA10RAM011.asb' continuing at byte 6467082480 Calculating SHA-1 hash of /ILook.022/DA10RAM011.asb' continuing at byte 7112801728 Calculating SHA-1 hash of /ILook.022/DA10RAM011.asb' continuing at byte 7112801728 Calculating SHA-1 hash of /ILook.022/DA10RAM012.asb' continuing at byte 7760510976 Calculating SHA-1 hash of /ILook.022/DA10RAM013.asb Opened input file '/ILookImager/ILook.022/DA10RAM013.asb' continuing at byte 807220224 Calculating SHA-1 hash of /ILook.022/DA10RAM013.asb' continuing at byte 807220224 Calculating SHA-1 hash of /ILook.022/DA10RAM014.asb' continuing at byte 807220224 Calculating SHA-1 hash of /ILook.022/DA10RAM014.asb' continuing at byte 807220224 Calculating SHA-1 hash of /ILook.022/DA10RAM015.asb' continuing at byte 807220224 Calculating SHA-1 hash of /ILook.022/DA10RAM015.asb' continuing at byte 807220224 Calculating SHA-1 hash of /ILook.022/DA10RAM015.asb' continuing at byte 9053293472 Calculating SHA-1 hash of /ILook.022/DA10RAM015.asb' verify Complete Verify Complete Verify Complete Verify Complete Verify Speed : 1.00 MB (6 9tytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 1.00 MB (6 9tytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 1.17 MB/sec Elapsed Time : 0.400 MB (6 9tytes) Total Processed: 31.72 MB/sec Elapsed Time : 0.400 MB (6 9tytes) Total Processed: 31.72 MB/sec Elapsed Time : 6.56922475b22472227918125 : for 9105023488 byte				
continuing at byte 3880255488 Calculating SHA-1 hash of /ILook.022/DA10RAM007.asb Opened input file '/ILookImager/ILook.022/DA10RAM008.asb Continuing at byte 5426964736 Calculating SHA-1 hash of /ILook.022/DA10RAM009.asb Opened input file '/ILookImager/ILook.022/DA10RAM09.asb Opened input file '/ILookImager/ILook.022/DA10RAM09.asb Continuing at byte 5173673984 Calculating SHA-1 hash of /ILook.022/DA10RAM010.asb Opened input file '/ILookImager/ILook.022/DA10RAM010.asb Opened input file '/ILookImager/ILook.022/DA10RAM011.asb Continuing at byte 6467092480 Calculating SHA-1 hash of /ILook.022/DA10RAM011.asb Continuing at byte 6467092480 Calculating SHA-1 hash of /ILook.022/DA10RAM011.asb Continuing at byte 6467092480 Calculating SHA-1 hash of /ILook.022/DA10RAM012.asb Continuing at byte 6467092480 Continuing at byte 6467092480 Continuing at byte 74706510976 Calculating SHA-1 hash of /ILook.022/DA10RAM013.asb Opened input file '/ILookImager/ILook.022/DA10RAM013.asb Continuing at byte 8407220224 Calculating SHA-1 hash of /ILook.022/DA10RAM013.asb Copened input file '/ILookImager/ILook.022/DA10RAM013.asb Continuing at byte 9053929472 Calculating SHA-1 hash of /ILook.022/DA10RAM015.asb Verify was completed successfully. Read 9.123 GB (9122743904 bytes) Written				
Calculating SHA-1 hash of /ILook.022/DA10RAW007.asb Opened input file //ILookInager/ILook.022/DA10RAW008.asb' continuing at byte 4326944736 Calculating SHA-1 hash of /ILook.022/DA10RAW008.asb Opened input file '/ILookInager/ILook.022/DA10RAW009.asb Opened input file '/ILookInager/ILook.022/DA10RAW009.asb Opened input file '/ILookInager/ILook.022/DA10RAW010.asb' continuing at byte 5820383332 Calculating SHA-1 hash of /ILook.022/DA10RAW010.asb Opened input file '/ILookInager/ILook.022/DA10RAW011.asb Opened input file '/ILookInager/ILook.022/DA10RAW011.asb Opened input file '/ILookInager/ILook.022/DA10RAW012.asb' continuing at byte 6467092480 Calculating SHA-1 hash of /ILook.022/DA10RAW012.asb' continuing at byte 7113801728 Calculating SHA-1 hash of /ILook.022/DA10RAW012.asb' continuing at byte 7705050976 Calculating SHA-1 hash of /ILook.022/DA10RAW013.asb' continuing at byte 7705050976 Calculating SHA-1 hash of /ILook.022/DA10RAW013.asb Opened input file '/ILookInager/ILook.022/DA10RAW013.asb Opened input file '/ILookInager/ILook.022/DA10RAW014.asb' continuing at byte 8407220224 Calculating SHA-1 hash of /ILook.022/DA10RAW014.asb' continuing at byte 305329472 Calculating SHA-1 hash of /ILook.022/DA10RAW015.asb' continuing at byte 305329472 Calculating SHA-1 hash of /ILook.022/DA10RAW015.asb' wrifty was completed successfully. Read : 9.123 GB (9122743994 bytes) Wrifty Speed : 12.04 MB/sec Blapsed fine : 0 hash of Shandawa bytes Clearing computer memory Initializing Reginning Verify operation for 9105023488 bytes Beginning Verify operation for 9105023488 bytes Clearing computer memory Initializing Reginning Verify operation for 9105023488 bytes) Verify Speed : 31.72 MB/sec Blapsed fine : 0 4 M478 Bad Sectors : 0 SNA-1 Value : 6599293dcab89536e270fb22a722e27918125 : for 9105023488 bytes) Verify Speed : 31.72 MB/sec Blapsed fine : 0 4 M478 Bad Sectors : 0 SNA-1 Value : 6599293dcab89536e270fb22a722e27918125 : for 9105023488 bytes Clearing computer memory Results:				
Opened input file '/ILOckImager/ILOck.022/DA10RAW008.asb' continuing at byte \$425964743 Calculating SIM-1 hash of /ILOck.022/DA10RAW009.asb' opened input file '/ILOckImager/ILOck.022/DA10RAW009.asb' continuing at byte \$173673984 Calculating SIM-1 hash of /ILOck.022/DA10RAW010.asb' Opened input file '/ILOckImager/ILOck.022/DA10RAW010.asb' Opened input file '/ILOckImager/ILOck.022/DA10RAW011.asb' Opened input file '/ILOckImager/ILOck.022/DA10RAW011.asb' continuing at byte \$6467092480 Calculating SIM-1 hash of /ILOck.022/DA10RAW011.asb' opened input file '/ILOckImager/ILOck.022/DA10RAW012.asb' Opened input file '/ILOckImager/ILOck.022/DA10RAW012.asb' Opened input file '/ILOckImager/ILOck.022/DA10RAW013.asb' Opened input file '/ILOckImager/ILOck.022/DA10RAW013.asb' Opened input file '/ILOckImager/ILOck.022/DA10RAW013.asb' Opened input file '/ILOckImager/ILOck.022/DA10RAW013.asb' Opened input file '/ILOckImager/ILOck.022/DA10RAW014.asb' Calculating SIM-1 hash of /ILOck.022/DA10RAW014.asb' Opened input file '/ILOckImager/ILOck.022/DA10RAW015.asb' Continuing at byte \$40722024 Calculating SIM-1 hash of /ILOck.022/DA10RAW015.asb' Continuing at byte \$953924372 Calculating SIM-1 hash of /ILOck.022/DA10RAW015.asb' Verify Complete Verify was completed successfully. Read : 9.123 GB (9122743304 bytes) Written : 0.000 MB (0 bytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 1.204 MB/sec Rlapsed Time : 0h 12m 36s Bad Sectors : 0 SIM-1 Value : f5f9f2803dca895f36e270fb22a722e27918125 Clearing computer memory Desimming Verify operation Verify Opened imputer file operation Verify Speed : 31.72 MB/sec Rlapsed Time : 0h 4m 47s Bad Sectors : 0 SIM-1 Value : f5f9f2903dca895f36e270fb22a722e27918125 : for 9105023488 bytes) Verify Speed : 31.72 MB/sec Rlapsed Time : 0h 4m 47s Bad Sectors : 0 SIM-1 Value : f5f9f2903dca895f36e270fb22a722e27918125 : for 9105023488 bytes Clearing computer memory Results: Results:				
continuing at byte 4526964736 Calculating SHA-1 hash of /ILook.022/DA10RAW008.asb Opened input file '/ILookImager/ILook.022/DA10RAW009.asb' continuing at byte 5173673984 Calculating SHA-1 hash of /ILook.022/DA10RAW010.asb' opened input file '/ILookImager/ILook.022/DA10RAW010.asb' continuing at byte 5820383232 Calculating SHA-1 hash of /ILook.022/DA10RAW011.asb' opened input file '/ILookImager/ILook.022/DA10RAW011.asb' opened input file '/ILookImager/ILook.022/DA10RAW011.asb' opened input file '/ILookImager/ILook.022/DA10RAW011.asb' continuing at byte 7113801728 Calculating SHA-1 hash of /ILook.022/DA10RAW012.asb Opened input file '/ILookImager/ILook.022/DA10RAW012.asb' continuing at byte 7760510976 Calculating SHA-1 hash of /ILook.022/DA10RAW013.asb' continuing at byte 7760510976 Calculating SHA-1 hash of /ILook.022/DA10RAW013.asb' opened input file '/ILookImager/ILook.022/DA10RAW013.asb' continuing at byte 8407220224 Calculating SHA-1 hash of /ILook.022/DA10RAW014.asb Opened input file '/ILookImager/ILook.022/DA10RAW015.asb' continuing at byte 9505829492 Calculating SHA-1 hash of /ILook.022/DA10RAW015.asb' continuing at byte 9505829492 Calculating SHA-1 hash of /ILook.022/DA10RAW015.asb Verify Complete Verify was completed successfully. Read : 9.123 GB (9122743904 bytes) Written : 0.000 MB (0 bytes) Total Processed: 9.105 GB (9150523488 bytes) Verify Speed : 12.04 MB/sec Elapsed Time : 0 ol 12m 36s Bad Sectors : 0 SHA-1 Value : f559f2903dcab895f36e270fb22a722e27918125 : for 9105023488 bytes Clearing computer memory Read : 606.9 MB (606936490 bytes) Written : 0.000 MB (0 bytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 31.72 MB/sec Elapsed Time : 0 ol 4m 47s Bad Sectors : 0 SHA-1 Value : f5f9f2903dcab895f36e270fb22a722e27918125 : for 9105023488 bytes Clearing computer memory Results: Assertion & Expected Result				
calculating SIRA-1 hash of /ILook.022/DAIORAW009.asb Opened input file '/ILookInager/ILook.022/DAIORAW009.asb Opened input file '/ILookInager/ILook.022/DAIORAW010.asb Opened input file '/ILookInager/ILook.022/DAIORAW010.asb Opened input file '/ILookInager/ILook.022/DAIORAW010.asb Opened input file '/ILookInager/ILook.022/DAIORAW011.asb Opened input file '/ILookInager/ILook.022/DAIORAW011.asb Opened input file '/ILookInager/ILook.022/DAIORAW011.asb Opened input file '/ILookInager/ILook.022/DAIORAW012.asb Opened input file '/ILookInager/ILook.022/DAIORAW012.asb Opened input file '/ILookInager/ILook.022/DAIORAW012.asb Opened input file '/ILookInager/ILook.022/DAIORAW013.asb Opened input file '/ILookInager/ILook.022/DAIORAW013.asb Opened input file '/ILookInager/ILook.022/DAIORAW013.asb Opened input file '/ILookInager/ILook.022/DAIORAW014.asb Opened input file '/ILookInager/ILook.022/DAIORAW014.asb Opened input file '/ILookInager/ILook.022/DAIORAW014.asb Opened input file '/ILookInager/ILook.022/DAIORAW015.asb Opened Input file '/ILookInager			2/DA10RAW008.asb'	
Opened input file '/ILOokImager/ILOok.022/DA10RAW009.asb' continuing at byte 5173673984 Calculating SIMA-1 hash of /ILOok.022/DA10RAW010.asb' opened input file '/ILOokImager/ILOok.022/DA10RAW010.asb' continuing at byte 5820383232 Calculating SIMA-1 hash of /ILOok.022/DA10RAW011.asb' opened input file '/ILOokImager/ILOok.022/DA10RAW011.asb' opened input file '/ILOokImager/ILOOk.022/DA10RAW011.asb' opened input file '/ILOokImager/ILOOk.022/DA10RAW012.asb' opened input file '/ILOokImager/ILOOk.022/DA10RAW012.asb' opened input file '/ILOokImager/ILOOk.022/DA10RAW013.asb' opened input file '/ILOokImager/ILOOk.022/DA10RAW013.asb' opened input file '/ILOokImager/ILOOk.022/DA10RAW013.asb' opened input file '/ILOokImager/ILOOk.022/DA10RAW013.asb' opened input file '/ILOokImager/ILOOk.022/DA10RAW013.asb opened input file '/ILOokImager/ILOOk.022/DA10RAW014.asb' opened input file '/ILOokImager/ILOOk.022/DA10RAW015.asb' continuing at byte 9053923472 Calculating SIMA-1 hash of /ILOOk.022/DA10RAW015.asb' opened input file '/ILOokImager/ILOOk.022/DA10RAW015.asb' opened input file '/ILOOKIMAGER/ILO			ODAWOOO	
continuing at byte 5173673984 Calculating SNA-1 hash of /ILook.022/DA10RAW009.asb Opened input file '/ILookImager/ILook.022/DA10RAW010.asb' continuing at byte 5820383232 Calculating SNA-1 hash of /ILook.022/DA10RAW011.asb' opened input file '/ILookImager/ILook.022/DA10RAW011.asb' continuing at byte 5467092480 Calculating SNA-1 hash of /ILook.022/DA10RAW011.asb' continuing at byte 7118007128 Calculating SNA-1 hash of /ILook.022/DA10RAW012.asb' opened input file '/ILookImager/ILook.022/DA10RAW012.asb' continuing at byte 77180510376 Calculating SNA-1 hash of /ILook.022/DA10RAW013.asb' opened input file '/ILookImager/ILook.022/DA10RAW013.asb' opened input file '/ILookImager/ILook.022/DA10RAW013.asb' opened input file '/ILookImager/ILook.022/DA10RAW014.asb' opened input file '/ILookImager/ILook.022/DA10RAW014.asb' opened input file '/ILookImager/ILook.022/DA10RAW015.asb' continuing at byte 9053929472 Calculating SNA-1 hash of /ILook.022/DA10RAW015.asb' continuing at byte 9053929472 Calculating SNA-1 hash of /ILook.022/DA10RAW015.asb' continuing at byte 9053929472 Calculating SNA-1 hash of /ILook.022/DA10RAW015.asb' verify Complete Verify was completed successfully. Read : 9.123 GB (9122743904 bytes) Written : 0.000 MB (0 bytes) Total Processed: 9.105 GB (9150523488 bytes) Verify Speed : 12.04 MB/sec Elapsed Time : 0.12m 36s Bad Sectors : 0 SNA-1 Value : f5f9f2903dcab895f36e270fb22a722e27918125 : for 9105023488 bytes Clearing computer memory Reginning Verify operation Seginning Verify operation Verify Speed : 31.72 MB/sec Elapsed Time : 0.1 4 m 4/s Bad Sectors : 0 SNA-1 Value : f5f9f2903dcab895f36e270fb22a722e27918125 : for 9105023488 bytes Clearing computer memory Results: Abcount Result				
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Opened input file '/ILookImager/ILook.022/DA10RAW010.asb' continuing at byte \$820383322 Calculating SRA-1 hash of /ILook.022/DA10RAW011.asb' Opened input file '/ILookImager/ILook.022/DA10RAW011.asb' continuing at byte \$467092480 Calculating SRA-1 hash of /ILook.022/DA10RAW012.asb' continuing at byte \$713801728 Calculating SRA-1 hash of /ILook.022/DA10RAW012.asb' continuing at byte 713801728 Calculating SRA-1 hash of /ILook.022/DA10RAW012.asb' opened input file '/ILookImager/ILook.022/DA10RAW013.asb' continuing at byte 7760510976 Calculating SRA-1 hash of /ILook.022/DA10RAW013.asb' continuing at byte 8407220224 Calculating SRA-1 hash of /ILook.022/DA10RAW014.asb' continuing at byte 8407220224 Calculating SRA-1 hash of /ILook.022/DA10RAW014.asb Opened input file '/ILookImager/ILook.022/DA10RAW015.asb' continuing at byte 9053929472 Calculating SRA-1 hash of /ILook.022/DA10RAW015.asb Verify Complete Verify was completed successfully. Read			OPAWOOQ ach	
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Opened input file '/ILOokImager/ILook.022/DA10RAW011.asb' continuing at byte 6467092480 Calculating SHA-1 hash of /ILook.022/DA10RAW011.asb Opened input file '/ILookImager/ILook.022/DA10RAW012.asb' continuing at byte '713801728 Calculating SHA-1 hash of /ILOok.022/DA10RAW013.asb Opened input file '/ILOokImager/ILook.022/DA10RAW013.asb Opened input file '/ILOokImager/ILook.022/DA10RAW013.asb Opened input file '/ILOokImager/ILook.022/DA10RAW013.asb Opened input file '/ILOokImager/ILook.022/DA10RAW014.asb Opened input file '/ILOokImager/ILook.022/DA10RAW014.asb Opened input file '/ILookImager/ILook.022/DA10RAW015.asb' continuing at byte 80053929472 Calculating SHA-1 hash of /ILOok.022/DA10RAW015.asb' continuing at byte 9053929472 Calculating SHA-1 hash of /ILOok.022/DA10RAW015.asb' verify Complete Verify was completed successfully. Read : 9.123 GB (9122743904 bytes) Written : 0.000 MB (0 bytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 12.04 MB/sec Elapsed Time : 0.12m 36s Bad Sectors : 0 SHA-1 Value : f519f2903dcab895f36e270fb22a722e27918125 : for 9105023488 bytes Clearing computer memory Initializing Beginning Verify operation Beginning Verify operation Verify Speed : 3.172 MB/sec Elapsed Time : 0.000 MB (0 bytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 3.172 MB/sec Elapsed Time : 0.000 MB (0 bytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 3.172 MB/sec Elapsed Time : 0.004 MB (0 bytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 3.172 MB/sec Elapsed Time : 0.004 MB (0 bytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 3.172 MB/sec Elapsed Time : 0.004 MB (0 bytes) Total Processed: 9.105 GB (9105023488 bytes) Verify Speed : 3.172 MB/sec Elapsed Time : 0.004 MB (0 bytes) Total Processed: 0.000 MB (0 bytes) T			ORAW010.asb	
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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.
- 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.

To find out more about the National Institute of Justice, please visit:

http://www.ojp.usdoj.gov/nij

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